

PETROLEUM

NATURAL GAS

LIGNITE/COAL

ELECTRICITY

ENERGY STATISTICS OF THAILAND 2012

รายงานสถิติพลังงาน
ของประเทศไทย 2555



สำนักงานนโยบาย
และแผนพลังงาน

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บทนำ

สำนักงานนโยบายและแผนพลังงาน (สนพ.) เป็นหน่วยงานหนึ่งที่มีบทบาทสำคัญในกระทรวงพลังงาน มีภารกิจหลักในการวางแผนนโยบายและแผนพลังงาน รวมถึงมาตรการในการบริหารจัดการพลังงานของประเทศ โดยคำนึงถึงการพัฒนาเศรษฐกิจ สังคม ควบคู่ไปกับการรักษาสิ่งแวดล้อม การดำเนินงานดังกล่าวมีความจำเป็นต้องใช้ข้อมูลสนับสนุนจำนวนมาก เพื่อใช้ในการวิเคราะห์และจัดทำข้อเสนอแนะด้านพลังงานแก่ผู้บริหาร ด้วยเหตุนี้ สนพ.จึงได้จัดทำหนังสือรายงานสถิติพลังงานของประเทศไทยขึ้น เพื่อติดตามสถานการณ์พลังงานของประเทศอย่างต่อเนื่อง

หนังสือรายงานสถิติพลังงานของประเทศไทย เป็นหนังสือที่ได้มีการจัดทำขึ้นปีละ 1 ครั้ง เพื่อเป็นการเพิ่มช่องทางในการให้บริการข้อมูลผ่านทางสื่อสิ่งพิมพ์ และแผ่น CD ที่สามารถตอบสนองความต้องการของผู้ใช้ได้อย่างรวดเร็วและมีประสิทธิภาพ โดยมีการเผยแพร่หนังสือดังกล่าวไปยังหน่วยงานต่าง ๆ ทั้งในประเทศ และต่างประเทศ ซึ่งมีการตอบรับเป็นอย่างดีจึงได้ดำเนินการจัดทำอย่างต่อเนื่อง มีการรวบรวมข้อมูลตั้งแต่อดีตจนถึงปัจจุบัน (ค.ศ. 1987 ถึง ค.ศ. 2011) ซึ่งครอบคลุมเรื่องพลังงานทุกด้าน ได้แก่ การผลิต การใช้ การนำเข้า การส่งออก ราคาและมูลค่าพลังงาน รวมทั้งข้อมูลปริมาณการปลดปล่อยก๊าซคาร์บอนไดออกไซด์ (CO₂) จากการใช้พลังงาน ซึ่งข้อมูลดังกล่าวเหล่านี้ได้นำมาใช้เป็นสารสนเทศทางการบริหารพลังงานของไทย ตลอดจนใช้ประกอบการวิเคราะห์แนวโน้มเพื่อกำหนดนโยบายและแผนด้านพลังงานของประเทศ

สนพ. หวังเป็นอย่างยิ่งว่า รายงานสถิติพลังงานของประเทศไทย 2555 จะเป็นประโยชน์ต่อหน่วยงาน องค์กร และผู้ที่สนใจทั่วไป เพื่อนำข้อมูลไปใช้ในการศึกษา วิจัย วิเคราะห์และการอ้างอิง ที่จะนำไปสู่การพัฒนาทางด้านพลังงานของประเทศต่อไป

Introduction

The Energy Policy and Planning Office (EPPO) is a pivotal agency under the Ministry of Energy, being tasked with the development of national energy policies and planning, including measures to manage and administer the energy sector, with due consideration of economic and social development, concurrently with environmental protection. In order to undertake the mentioned tasks, it is crucial to acquire substantial information and data for analysis and development of recommendation on energy issues to be presented to the management. As a consequence of this, EPPO has published a report on energy statistics of Thailand with a view to following up continuously national energy situations.

This report on energy statistics of Thailand is issued annually, with the first one issued in 2010, to be another channel to provide energy information via printed matters and in the form of CD, which is expected to promptly and efficiently respond to the users' needs. After EPPO's first publication and dissemination of the report, there has been favorable response and feedback from concerned agencies/organizations, both domestic and overseas. Therefore, the second issue of such a report is consecutively prepared by EPPO this year, with data collection from the past up to the present (1987-2011), covering all aspects of energy, i.e. production, consumption, import, export, prices and nominal value of energy, including the information about carbon dioxide (CO₂) emissions from the use of energy. The mentioned information/data has much contributed to energy management of the country, particularly in support of decision making of the management based on close follow-ups on energy situation movements, and to the analysis of energy trends to assess the impact which may occur from energy use. The analysis outcome will form the basis for the development of recommendations on the energy policy and management plan as well as the energy development plan of the country.

EPPO hopefully the "Energy Statistics of Thailand 2012" is useful to organizations and people that are interested in general to bring information to use in education, research, analysis and reference. That will lead to the development of the country's energy.

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*Note : M = Monthly
Y = Yearly



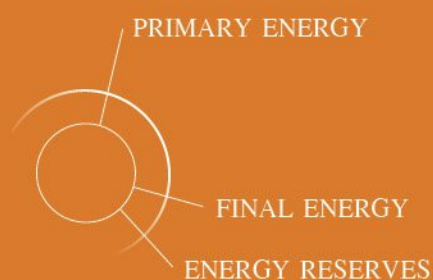


ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 1

ENERGY SITUATION IN 2011

บทที่ 1
สถานการณ์พลังงานปี 2554





บทที่ 1

สถานการณ์พลังงานปี 2554

สำนักงานคณะกรรมการพัฒนาการเศรษฐกิจและสังคมแห่งชาติ (สศช.) รายงานแนวโน้มเศรษฐกิจไทย ในปี 2554 ขยายตัวร้อยละ 0.1 โดยในช่วงไตรมาสแรกถึงไตรมาสที่สาม ภาวะเศรษฐกิจไทยมีอัตราการขยายตัว ร้อยละ 3.2 ถึงแม้ว่าในช่วงเดือนมีนาคมที่ผ่านมาจะเกิดเหตุการณ์แผ่นดินไหวและสึนามิที่ประเทศญี่ปุ่น ซึ่งส่งผล ต่อภาคอุตสาหกรรมของไทยในช่วงไตรมาสที่สอง แต่สามารถกลับฟื้นตัวได้ในช่วงไตรมาสที่สาม อย่างไรก็ตาม ในช่วงปลายไตรมาสที่สามต่อเนื่องถึงไตรมาสที่สี่ ประเทศไทยประสบภัยพิบัติอุทกภัยซึ่งส่งผลกระทบต่อภาคการผลิต ทั้งภาคเกษตรและภาคอุตสาหกรรม โดยเฉพาะเขตนิคมอุตสาหกรรมในจังหวัดพระนครศรีอยุธยาและจังหวัด ปทุมธานี รวมทั้งส่งผลกระทบต่อภาคการท่องเที่ยว ซึ่งปัจจัยเหล่านี้ส่งผลต่อการใช้พลังงานโดยรวมของ ประเทศ สรุปได้ดังนี้

การใช้ การผลิต และการนำเข้าพลังงานเชิงพาณิชย์ขั้นต้น

หน่วย : เทียบเท่าพันบาร์เรลน้ำมันดิบ/วัน

	2553	2554	2553				2554			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
การใช้	1,783	1,845	1,780	1,807	1,765	1,780	1,868	1,890	1,858	1,763
การผลิต	989	1,018	979	1,002	987	990	1,051	1,012	1,034	977
การนำเข้า (สุทธิ)	1,001	1,017	991	1,082	916	1,015	1,040	1,097	1,031	903
การนำเข้า/การใช้ (%)	56	55	56	60	52	57	56	58	55	51
อัตราการเปลี่ยนแปลง (%)										
การใช้	7.2	3.5	10.4	6.7	6.9	5.2	5.0	4.6	5.3	1.0
การผลิต	10.6	2.9	10.0	11.2	12.4	8.6	7.4	1.0	4.8	-1.3
การนำเข้า (สุทธิ)	8.5	1.6	11.0	13.4	-2.7	12.7	5.0	1.4	12.6	-11.0
GDP (%)	7.8	0.1	12.0	9.2	6.6	3.8	3.2	2.7	3.7	-9.0

การใช้พลังงานเชิงพาณิชย์ขั้นต้น ในปี 2554 เพิ่มขึ้นร้อยละ 3.5 เมื่อเทียบกับปี 2553 หรืออยู่ที่ระดับ 1,845 เทียบเท่าพันบาร์เรลน้ำมันดิบต่อวัน โดยก๊าซธรรมชาติมีสัดส่วนการใช้มากที่สุดคิดเป็นร้อยละ 44 มีการใช้ เพิ่มขึ้นร้อยละ 3.3 การใช้น้ำมันมีสัดส่วนรองลงมาที่ร้อยละ 37 มีการใช้เพิ่มขึ้นร้อยละ 3.3 การใช้ถ่านหินนำเข้า ลดลงร้อยละ 3.4 การใช้ถ่านหินเพิ่มขึ้นร้อยละ 3.8 และการใช้ไฟฟ้าพลังน้ำ/ไฟฟ้านำเข้าเพิ่มขึ้นร้อยละ 48.5 เนื่องจากการผลิตไฟฟ้าจากโรงไฟฟ้าพลังน้ำและการรับซื้อไฟฟ้าจากสาธารณรัฐประชาธิปไตยประชาชนลาว (สปป.ลาว) เพิ่มขึ้น โดยในปีนี้มีไฟฟ้านำเข้าจากแหล่งน้ำริม 2 ขนาด 615 เมกะวัตต์ ซึ่งเริ่มจ่ายไฟฟ้าตั้งแต่ เดือนมีนาคม 2554 เพื่อชดเชยก๊าซธรรมชาติที่ลดลงในช่วงปลายเดือนมิถุนายนถึงต้นเดือนสิงหาคม 2554 จากเหตุการณ์ท่อส่งก๊าซธรรมชาติรั่วในอ่าวไทย ประกอบกับปริมาณน้ำในเขื่อนมีมากช่วงปลายปี ทั้งนี้ ประเทศไทยเริ่มมีการนำเข้าก๊าซธรรมชาติเหลว (LNG) ครั้งแรกตั้งแต่เดือนพฤษภาคม 2554

Chapter 1

Energy Situation in 2011



Thailand's GDP growth rate in 2011, by the National Economic and Social Development Board (NESDB), was at 0.1%. During the first three quarters, the GDP growth rate was 3.2%; despite the impact of Japanese earthquake and tsunami incidents in March on Thailand's industrial sector in the 2nd quarter, the economy could be recovered in the 3rd quarter. Unfortunately, at the end of the 3rd quarter and throughout the 4th quarter of the year, Thailand had to face a disastrous flood situation which heavily affected the manufacturing sector, both agricultural and industrial sectors, especially the industrial estates in Phra Nakhon Si Ayutthaya and Pathum Thani provinces – including the tourist industry. These factors greatly affected the overall energy demand of the country which can be summarized as follows.

Consumption, Production and Import of Primary Commercial Energy

Unit : KBD (Crude Oil Equivalent)

	2010	2011	2010				2011			
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Consumption	1,783	1,845	1,780	1,807	1,765	1,780	1,868	1,890	1,858	1,763
Production	989	1,018	979	1,002	987	990	1,051	1,012	1,034	977
Import (Net)	1,001	1,017	991	1,082	916	1,015	1,040	1,097	1,031	903
Import/Consumption (%)	56	55	56	60	52	57	56	58	55	51
Growth Rate (%)										
Consumption	7.2	3.5	10.4	6.7	6.9	5.2	5.0	4.6	5.3	1.0
Production	10.6	2.9	10.0	11.2	12.4	8.6	7.4	1.0	4.8	-1.3
Import (Net)	8.5	1.6	11.0	13.4	-2.7	12.7	5.0	1.4	12.6	-11.0
GDP (%)	7.8	0.1	12.0	9.2	6.6	3.8	3.2	2.7	3.7	-9.0

Primary Energy Consumption. The total primary energy consumption in 2011 increased by 3.5% from that in 2010, being at a level of 1,845 thousand barrels per day (KBD) of crude oil equivalent. Natural gas accounted for the largest share of the consumption, i.e. 44%, accounting for an increase of 3.3%. Oil consumption was the second largest, holding a share of 37%, or an increase of 3.8%. The consumption of imported coal decreased by 3.4%, but lignite increased by 13.9%. As for hydropower and imported electricity, the demand sharply rose by 48.5% due to increased generation by hydropower plants as well as additional power purchase from Lao PDR. Import of 615 MW of electricity from Nam Ngum 2 project in Lao PDR commenced in March 2011 to compensate natural gas supply shortage during the end of June to early August 2011, caused by leakage of the natural gas transmission pipeline in the Gulf of Thailand. Furthermore, around year end, there was plentiful supply of water in domestic dam reservoirs resulting from the occurrence of five storms altogether passing by the country. In addition, Thailand first imported liquefied natural gas (LNG) in May 2011.

น้ำมันดิบ ปี 2554 มีปริมาณการนำเข้าอยู่ที่ระดับ 794 พันบาร์เรลต่อวัน ลดลงร้อยละ 2.7 คิดเป็นมูลค่า 977,374 ล้านบาท เพิ่มขึ้นร้อยละ 30.1 เนื่องจากราคาน้ำมันดิบเพิ่มขึ้นร้อยละ 38.7 หรือเพิ่มขึ้น 30.72 เหรียญสหรัฐต่อบาร์เรล จากราคาเฉลี่ยน้ำมันดิบนำเข้า 79.47 เหรียญสหรัฐต่อบาร์เรลในปี 2553 มาอยู่ที่ระดับ 110.19 เหรียญสหรัฐต่อบาร์เรลในปี 2554

การนำเข้าน้ำมันดิบลดลง 2.7%

	2550	2551	2552	2553	2554	อัตราการเปลี่ยนแปลง (%)		
						2552	2553	2554
ปริมาณ (พันบาร์เรล/วัน)	804	812	803	816	794	-1.0	1.6	(-2.7)
ราคาเฉลี่ย (\$ US/บาร์เรล)	70.54	101.44	61.90	79.47	110.19	-39.0	28.4	38.7
มูลค่า (พันล้านบาท)	716	1,003	623	751	977	-37.9	20.6	30.1

น้ำมันสำเร็จรูป ในปี 2554 มีการใช้น้ำมันสำเร็จรูปเพิ่มขึ้นจากปี 2553 ร้อยละ 3.4 โดยการใช้ น้ำมันดีเซลเพิ่มขึ้นร้อยละ 3.8 น้ำมันเครื่องบินเพิ่มขึ้นร้อยละ 7.7 และ LPG (ไม่รวมการใช้ในอุตสาหกรรมปิโตรเคมี) มีการใช้เพิ่มขึ้นร้อยละ 7.7 ในขณะที่การใช้น้ำมันเบนซินลดลงร้อยละ 1.1 และน้ำมันเตาลดลงร้อยละ 6.0

การใช้น้ำมันสำเร็จรูป

หน่วย : พันบาร์เรล/วัน

ชนิด	2551	2552	2553	2554	อัตราการเปลี่ยนแปลง (%)			
					2551	2552	2553	2554
เบนซิน	122	130	128	126	-2.9	5.6	-1.4	(-1.1)
ธรรมดา 91	74	74	78	85	-8.4	-0.4	5.0	9.4
พิเศษ	48	56	50	41	7.0	15.0	-10.0	-17.6
- แก๊สโซฮอล์	42	53	49	40	62.5	23.8	-7.3	-16.8
- 95	6	3	1	0.7	-69.1	-48.0	-56.7	-45.6
ก๊าด	0.3	0.3	0.3	0.2	-13.7	12.5	-13.5	-14.9
ดีเซล	303	318	318	331	-5.7	4.6	0.1	(3.8)
เครื่องบิน	80	76	81	87	-5.9	-4.4	6.3	(7.7)
น้ำมันเตา	56	47	45	42	-22.1	-16.9	-4.2	(-6.0)
LPG*	117	119	131	141	17.4	0.9	10.0	(7.7)
รวม	679	690	704	728	-3.6	1.3	1.9	(3.4)

*ไม่รวมการใช้ LPG ที่ใช้เป็น Feed stocks ในปิโตรเคมี

● **น้ำมันเบนซิน** ในปี 2554 การใช้น้ำมันเบนซินเฉลี่ยอยู่ที่ระดับ 126 พันบาร์เรลต่อวัน หรือ 20.1 ล้านลิตรต่อวัน หรือลดลงร้อยละ 1.1 เมื่อเทียบกับปี 2553 ทั้งนี้ ปริมาณการใช้น้ำมันเบนซินน้อยที่สุดในช่วงเดือนตุลาคมถึงเดือนพฤศจิกายน 2554 เนื่องจากได้รับผลกระทบจากภัยพิบัติอุทกภัย ประกอบกับตั้งแต่ต้นปี ผู้ใช้รถบางส่วนเปลี่ยนไปใช้ NGV แทน จึงเป็นสาเหตุสำคัญที่ทำให้การใช้น้ำมันเบนซินในปีนี้ลดลง ปัจจุบันการใช้เบนซินธรรมดามีสัดส่วนร้อยละ 67 แยกเป็นเบนซิน 91 ร้อยละ 42 และแก๊สโซฮอล์ 91 ร้อยละ 25 และเบนซินพิเศษร้อยละ 33 แยกเป็นเบนซิน 95 ร้อยละ 1 และแก๊สโซฮอล์ 95 ร้อยละ 32

Crude Oil. Crude oil imports in 2011 was at a rate of 794 KBD, decreasing by 2.7%; however, the imports value increased to THB 977.37 billion, or an increase of 30.1%, as the crude oil price had increased by 38.7% or US\$ 30.72 a barrel, from an average import price at US\$ 79.47 a barrel in 2010 to US\$ 110.19 a barrel in 2011.

Crude Oil Import Decreased by 2.7%

	2007	2008	2009	2010	2011	Growth Rate (%)		
						2009	2010	2011
Quantity (KBD)	804	812	803	816	794	-1.0	1.6	-2.7
Average Price (\$US/barrel)	70.54	101.44	61.90	79.47	110.19	-39.0	28.4	38.7
Value (Billion THB)	716	1,003	623	751	977	-37.9	20.6	30.1

Petroleum Products. Compared with 2010, the total petroleum product consumption in 2011 increased by 3.4%. The demand for diesel increased by 3.8%; jet petroleum demand increased by 7.7%; and LPG demand (excluding the use in the petrochemical industry) increased at the highest rate of 7.7%. However, the demand for gasoline and fuel oil was down by 1.1% and 6.0% respectively.

Petroleum Product Consumption

Unit : KBD

Product	2008	2009	2010	2011	Growth Rate (%)			
					2008	2009	2010	2011
Gasoline	122	130	128	126	-2.9	5.6	-1.4	-1.1
Regular 91	74	74	78	85	-8.4	-0.4	5.0	9.4
Premium	48	56	50	41	7.0	15.0	-10.0	-17.6
- Gasohol	42	53	49	40	62.5	23.8	-7.3	-16.8
- ULG 95	6	3	1	0.7	-69.1	-48.0	-56.7	-45.6
Kerosene	0.3	0.3	0.3	0.2	-13.7	12.5	-13.5	-14.9
Diesel	303	318	318	331	-5.7	4.6	0.1	3.8
Jet Petroleum	80	76	81	87	-5.9	-4.4	6.3	7.7
Fuel Oil	56	47	45	42	-22.1	-16.9	-4.2	-6.0
LPG*	117	119	131	141	17.4	0.9	10.0	7.7
Total	679	690	704	728	-3.6	1.3	1.9	3.4

*Excluding LPG use as feedstock in the petrochemical industry

● **Gasoline** – The average consumption of gasoline in 2011 was at a level of 126 KBD or 20.1 million litres/day, a decrease of 1.1% compared with that in 2010. The volume of gasoline consumption during October-November 2011 dropped to the lowest level in the year due to the impact of domestic flood crisis, along with the switch to NGV by a number of car users. Regular gasoline consumption accounted for a share of 67% -- which can be further divided into: 42% octane 91 gasoline (Gasoline 91 or ULG 91) and 25% octane 91 gasohol (Gasohol 91) – and premium gasoline consumption accounted for the remaining 33% -- further divided into: 1% octane 95 gasoline (Gasoline 95 or ULG 95) and 32% octane 95 gasohol (Gasohol 95).

● **แก๊สโซฮอล** ในปี 2554 มีสัดส่วนการใช้มากที่สุด คิดเป็นร้อยละ 58 ของปริมาณการใช้เบนซินทั้งหมด โดยมีปริมาณการใช้ลดลงจาก 12.0 ล้านลิตรต่อวันในปี 2553 เป็น 11.5 ล้านลิตรต่อวันในปีนี้ หรือลดลงร้อยละ 3.9 เนื่องจากได้รับผลกระทบจากภัยพิบัติอุทกภัยและมาตรการชะลอการเรียกเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิงเพื่อลดภาระของผู้บริโภค ซึ่งมีผลตั้งแต่วันที่ 27 สิงหาคม 2554 ส่งผลให้ราคาขายปลีกน้ำมันเบนซิน 95 ลดลง 8.02 บาทต่อลิตร และน้ำมันเบนซิน 91 ลดลง 7.17 บาทต่อลิตร ทำให้ตั้งแต่เดือนสิงหาคมประชาชนหันกลับไปใช้เบนซินแทนแก๊สโซฮอลเพิ่มขึ้นมาก ถึงแม้ว่าวันที่ 31 สิงหาคม 2554 จะมีการปรับอัตราเงินส่งเข้าและอัตราเงินชดเชยจากกองทุนน้ำมันเชื้อเพลิง เพื่อให้มีส่วนต่างราคาระหว่างเบนซินและแก๊สโซฮอลเพิ่มขึ้น แต่ก็ยังไม่จูงใจให้ประชาชนหันกลับมาใช้แก๊สโซฮอลตามเดิม

การใช้แก๊สโซฮอล 95 (E10) ปี 2554 อยู่ที่ระดับ 5.81 ล้านลิตรต่อวัน ลดลงจากปี 2553 ร้อยละ 21.3 ซึ่งอยู่ที่ระดับ 7.37 ล้านลิตรต่อวัน โดยส่วนต่างราคาเฉลี่ยระหว่างเบนซิน 95 และแก๊สโซฮอล 95 (E10) ก่อนเดือนสิงหาคมอยู่ที่ระดับ 9.91 บาทต่อลิตร และหลังเดือนสิงหาคมอยู่ที่ระดับ 4.72 บาทต่อลิตร

การใช้แก๊สโซฮอล 91 ปี 2554 อยู่ที่ระดับ 5.10 ล้านลิตรต่อวัน เพิ่มขึ้นจากปี 2553 ร้อยละ 19.9 ซึ่งอยู่ที่ระดับ 4.25 ล้านลิตรต่อวัน โดยส่วนต่างราคาเฉลี่ยระหว่างเบนซิน 91 และแก๊สโซฮอล 91 (E10) ก่อนเดือนสิงหาคมอยู่ที่ระดับ 7.12 บาทต่อลิตร และหลังเดือนสิงหาคมอยู่ที่ระดับ 3.02 บาทต่อลิตร

ทั้งนี้ ณ สิ้นปี 2554 มีสถานีจำหน่ายแก๊สโซฮอล 95 (E20) จำนวน 830 แห่ง เพิ่มขึ้นจากปี 2553 ที่มีเพียง 542 แห่ง และแก๊สโซฮอล 95 (E85) มีสถานีบริการจำนวน 38 แห่ง เพิ่มขึ้นจากปี 2553 ที่มีเพียง 10 แห่ง

● **น้ำมันดีเซล** ในปี 2554 มีปริมาณการใช้เฉลี่ย 52.6 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 3.9 เนื่องจากรัฐบาลยังคงตรึงราคาขายปลีกน้ำมันดีเซลอยู่ที่ระดับ 29.99 บาทต่อลิตร ตั้งแต่ต้นปี 2554 รวมทั้งมีมาตรการชะลอการเรียกเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิง ซึ่งมีผลตั้งแต่วันที่ 27 สิงหาคม 2554 ส่งผลให้ราคาขายปลีกน้ำมันดีเซลลดลงอีก 3.00 บาทต่อลิตร จึงจูงใจให้มีการใช้เพิ่มขึ้น นอกจากนั้นในช่วงเดือนพฤศจิกายนถึงเดือนธันวาคม 2554 เกิดภัยพิบัติอุทกภัย ทำให้มีการใช้ดีเซลเพื่อการสูบน้ำและผลักดันน้ำเพิ่มมากขึ้น

ไบโอดีเซล ตั้งแต่ต้นปี 2554 ได้มีการปรับสัดส่วนไบโอดีเซลในน้ำมันดีเซลหมุนเร็วหลายครั้ง โดยในช่วงต้นปี 2554 เกิดปัญหาน้ำมันปาล์มดิบขาดแคลน ส่งผลให้ตั้งแต่วันที่ 1 กุมภาพันธ์ 2554 มีการปรับลดสัดส่วนไบโอดีเซล บี 100 ในน้ำมันดีเซลหมุนเร็ว จากเดิมที่มีการผสมร้อยละ 3 และร้อยละ 5 ให้เหลือเพียงร้อยละ 2 เกรดเดียว และตั้งแต่กลางปี 2554 ได้มีการพิจารณาปรับลดชนิดของน้ำมันดีเซลให้เหลือเพียงเกรดเดียว โดยมีสัดส่วนผสมของไบโอดีเซลไม่สูงกว่าร้อยละ 5 เพื่อให้เกิดความยืดหยุ่นในการบริหารจัดการปาล์มน้ำมันได้ตามฤดูกาล

- **Gasohol** – Of the total gasoline consumption in 2011, gasohol accounted for the largest share, i.e. 58%. The demand volume, however, decreased from 12.0 million litres/day in 2010 to 11.5 million litres/day this year, or a 3.9% decrease, due to the impact of flood crisis and also the government measure suspending the collection of contributions to the Oil Fund to alleviate consumers' burden, effective on 27 August 2011, resulting in retail price reduction for Gasoline 95 by 8.02 Baht/litre and Gasoline 91 by 7.17 Baht/litre. Thus, as from August, a large number of consumers turned to use gasoline instead of gasohol. Although, on 31 August 2011, the rates of contribution to and subsidy from the Oil Fund were reviewed and adjusted to increase the price gap between gasoline and gasohol, the new prices were not attractive enough to induce consumers to use gasohol as before.

In 2011, the demand for Gasohol 95 was at 5.81 million litres/day, decreased by 21.2% from 7.37 million litres/day in 2010. The average price gap between Gasoline 95 and Gasohol 95 (E10) was 9.91 Baht/litre before August and then adjusted to 4.72 Baht/litre after August.

As for Gasohol 91, the demand in 2011 was at 5.10 million litres/day, increased by 19.9% from that in 2010, which was at 4.25 million litres/day. The average price gap between Gasoline 91 and Gasohol 91 (E10) was 7.12 Baht/litre before August and 3.02 Baht/litre after August.

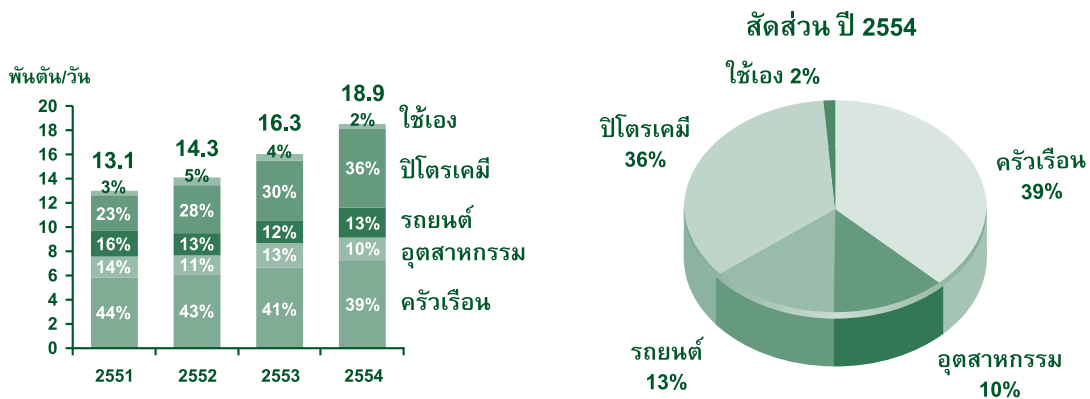
At the end of 2011, the expansion of Gasohol 95 (E20) service station network was expected to reach 830 stations, increasing from only 542 stations in 2010, and that of Gasohol 95 (E85) service stations, to 38 stations from only 10 stations in the previous year.

- **Diesel** – In 2011, diesel consumption was at an average of 52.6 million litres/day, an increase of 3.9%, as the retail price of diesel had been fixed at 29.99 Baht/litre by the government since the beginning of the year; moreover, the government's relief measure suspending contribution collection to the Oil Fund, effective since 27 August 2011, resulted in a further reduction of retail diesel price by 3.00 Baht/litre, which induced greater use of diesel. In addition, during the flood crisis, particularly from November to December 2011, diesel consumption highly increased as it was used for pumping water out and pushing its flow in critically flooded areas.

With regard to **biodiesel**, since early 2011, the blending ratio of biodiesel (B100) in high speed diesel (HSD) had been adjusted several times. Early in the year, there was a problem of crude palm oil shortage, making it necessary to reduce the ratio of B100 blending in HSD from formerly available two grades with 3% and 5% of B100 blending to only one grade with 2% B100 blending. Since mid 2011, bio-diesel has been revised to use only one grade, compared to several grades in the past, but not over 5%. This policy purposed to allocate a scarcity of palm oil when it is out of season.

● **LPG โพรเพน และบิวเทน** ในปี 2554 การใช้อยู่ที่ระดับ 18.9 พันตันต่อวัน เพิ่มขึ้นจากปี 2553 ร้อยละ 15.9 โดยภาคครัวเรือนซึ่งมีสัดส่วนการใช้มากที่สุด คิดเป็นร้อยละ 39 ของปริมาณการใช้ทั้งหมด มีการใช้เพิ่มขึ้นร้อยละ 9.1 รองลงมาเป็นการใช้เป็นวัตถุดิบในอุตสาหกรรมปิโตรเคมี คิดเป็นสัดส่วนร้อยละ 36 มีการใช้เพิ่มขึ้นร้อยละ 34.2 การใช้เป็นเชื้อเพลิงในรถยนต์ คิดเป็นสัดส่วนร้อยละ 13 มีการใช้เพิ่มขึ้นร้อยละ 35.3 เนื่องจากมาตรการตรึงราคา LPG ภาคขนส่งให้อยู่ในระดับต่ำที่ระดับ 11.20 บาทต่อลิตร ในขณะที่การใช้ในภาคอุตสาหกรรมคิดเป็นสัดส่วนร้อยละ 10 มีการใช้ลดลงร้อยละ 7.8 เนื่องจากรัฐบาลมีนโยบายปรับราคาขายปลีก LPG ในภาคอุตสาหกรรมให้สะท้อนต้นทุนที่แท้จริง โดยกำหนดให้ปรับราคาขึ้นไตรมาสละ 1 ครั้ง ครั้งละ 3 บาทต่อกิโลกรัม จำนวน 4 ครั้ง โดยปี 2554 ได้ปรับราคาขึ้นไปแล้วจำนวน 2 ครั้ง ครั้งแรกในวันที่ 19 กรกฎาคม 2554 และครั้งที่สองในวันที่ 1 ตุลาคม 2554

การใช้ LPG โพรเพน และบิวเทน



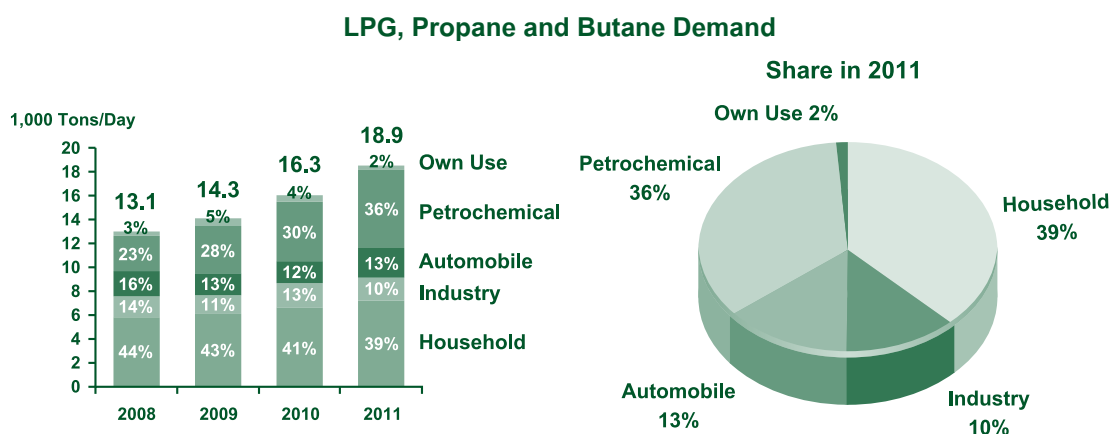
การใช้ปี 2554	ครัวเรือน	อุตสาหกรรม	รถยนต์	ปิโตรเคมี	ใช้เอง	รวม
ปริมาณการใช้ (พันตัน/วัน)	7.3	2.0	2.5	5.8	1.3	18.9
อัตราการเปลี่ยนแปลง (%)	9.1	-7.8	35.3	34.2	-38.5	15.9

● **การใช้น้ำมันภาคขนส่งทางบก ปี 2554** อยู่ที่ระดับ 65.5 ล้านลิตรต่อวันเทียบเท่าน้ำมันดิบ เพิ่มขึ้นจากปี 2553 ร้อยละ 5.7 โดยการใช้ น้ำมันดีเซลคิดเป็นสัดส่วนมากที่สุดอยู่ที่ร้อยละ 58 รองลงมาคือการใช้ น้ำมันเบนซินคิดเป็นสัดส่วนร้อยละ 27 การใช้ LPG ในรถยนต์คิดเป็นสัดส่วนร้อยละ 5 และการใช้ NGV คิดเป็นสัดส่วนร้อยละ 10

การใช้ LPG ในรถยนต์มีการใช้เพิ่มขึ้นร้อยละ 35.3 เนื่องจากมาตรการตรึงราคา LPG ภาคขนส่งให้อยู่ในระดับต่ำที่ระดับ 11.20 บาทต่อลิตร ทั้งนี้ ณ สิ้นปี 2554 จำนวนรถที่ใช้ LPG รวมถึงรถที่ใช้ LPG ร่วมกับเบนซินหรือดีเซล รวมทั้งสิ้น 832,882 คัน เพิ่มขึ้นจากปี 2553 ที่มี 666,155 คัน โดยมีสถานีบริการ LPG ทั่วประเทศ จำนวน 1,037 สถานี

การใช้ NGV มีการใช้เพิ่มขึ้นร้อยละ 27.5 เนื่องจากนโยบายส่งเสริมการใช้ NGV ของภาครัฐ โดยตรึงราคา NGV อยู่ที่ระดับ 8.50 บาทต่อกิโลกรัม จึงเป็นการจูงใจและทำให้ประชาชนบางส่วนหันมาติดตั้ง NGV เพิ่มขึ้น ประกอบกับค่ายรถยนต์เริ่มผลิตรถ CNG ออกสู่ตลาดหลายรุ่น ทั้งนี้ ณ สิ้นปี 2554 จำนวนรถยนต์ที่ติดตั้ง NGV แล้วทั้งสิ้น 300,581 คัน เพิ่มขึ้นจากปี 2553 ที่มีเพียง 225,668 คัน โดยทดแทนน้ำมันเบนซินร้อยละ 16.4 และทดแทนน้ำมันดีเซลร้อยละ 5.1 และมีจำนวนสถานีบริการ NGV ทั่วประเทศ จำนวน 469 สถานี เพิ่มขึ้นจากปี 2553 ที่มีเพียง 428 สถานี แบ่งเป็นอยู่ในเขตกรุงเทพฯ และปริมณฑล 236 สถานี และต่างจังหวัด 233 สถานี

• **LPG, Propane and Butane** – The demand of these products in 2011 was at 18.9 thousand tons/day, an increase of 15.9% from 2010. The household consumption accounted for the largest share of the total demand, i.e. 39%, with a growth rate of 9.1%. Next to it was the use as feedstock in the petrochemical industry, holding a share of 36%, growing by 34.2%. The use as fuel for vehicles accounted for a share of 13%, growing by 35.3% resulting from the stabilization of LPG price for the transportation sector at a low level, i.e. 11.20 Baht/litre. On the contrary, the use in the industrial sector accounted for a share of 10%, decreasing by 7.8% because the government had set a policy to increase the retail LPG price for this sector to reflect the actual cost. The price increase will be made quarterly, at 3 Baht/kg/quarter, for four times altogether; in 2011 the price adjustment were made twice – the first time on 19 July 2011 and the second one on 1 October 2011.



Demand in 2011	Household	Industry	Automobile	Petrochemical	Own Use	Total
Demand volume (1,000 Tons/Day)	7.3	2.0	2.5	5.8	1.3	18.9
Growth Rate (%)	9.1	-7.8	35.3	34.2	-38.5	15.9

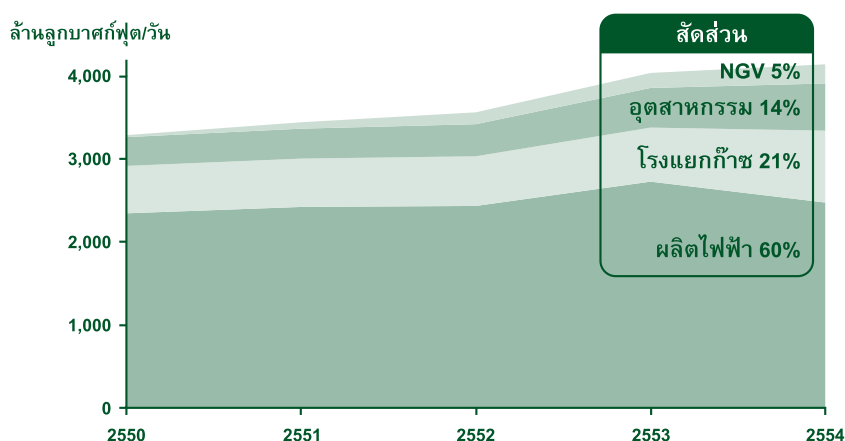
• **Petroleum Consumption in the Land Transport.** In 2011, the demand volume was at 65.5 million litres of crude oil equivalent per day, accounting for an increase of 5.7% compared with the previous year. Diesel consumption held the largest share of 58%; next to it was the consumption for gasoline, NGV and LPG as fuel for vehicles, holding a share of 27%, 10% and 5% respectively.

The use of LPG as fuel for vehicles remarkably increased by 35.3% as the LPG price for the transportation sector was fixed at 11.20 Baht/litre. As at the end of 2011, the accumulated number of LPG vehicles, including dual-fuel vehicles using LPG together with gasoline or diesel, increased from 666,155 units in 2010 to 832,882 units and the number of LPG re-fueling stations nationwide was 1,037.

NGV (or CNG) demand increased at a high rate of 27.5% due to the government policy promoting NGV utilization, by fixing NGV price at 8.50 Baht/kg as an incentive, inducing a number of vehicle owners to have their engines modified to run on NGV. Moreover, automobile companies started manufacturing many models of NGV (or CNG) vehicles which are now on the market. As at the end of 2011, the accumulated number of NGV vehicles was expected to reach 300,581 units, increasing from 225,668 units in 2010, which will help reduce gasoline and diesel demand by 16.4% and 5.1% respectively. The number of NGV service stations nationwide was 469, increasing from 428 stations in 2010 – of this, 236 stations are in Bangkok and its vicinities and 233 stations in other provinces.

● **การใช้ก๊าซธรรมชาติ** ในปี 2554 มีปริมาณการใช้อยู่ที่ระดับ 4,143 ล้านลูกบาศก์ฟุตต่อวัน เพิ่มขึ้นจากปี 2553 ซึ่งอยู่ที่ระดับ 4,039 ล้านลูกบาศก์ฟุตต่อวัน หรือเพิ่มขึ้นร้อยละ 2.6 โดยเป็นการใช้เพื่อเป็นวัตถุดิบในอุตสาหกรรมปิโตรเคมีและอื่น ๆ (โพรเพน อีเทน และ LPG) เพิ่มขึ้นร้อยละ 33.0 เนื่องจากโรงแยกก๊าซธรรมชาติหน่วยที่ 6 ขนาดกำลังการผลิต 800 ล้านลูกบาศก์ฟุตต่อวัน เริ่มดำเนินการผลิตได้ตั้งแต่ปลายปี 2553 ตลอดจนการผลิตในเชิงพาณิชย์ได้ทั้งปี 2554 การใช้เป็นเชื้อเพลิงในโรงงานอุตสาหกรรมเพิ่มขึ้นร้อยละ 19.2 และการใช้เพื่อเป็นเชื้อเพลิงสำหรับรถยนต์ (NGV) เพิ่มขึ้นร้อยละ 27.5 ในขณะที่เป็นการใช้เพื่อการผลิตไฟฟ้าลดลงร้อยละ 9.3 เนื่องจากความต้องการใช้ไฟฟ้าในปีนี้ลดลง

การใช้ก๊าซธรรมชาติรายสาขา



อัตราการเปลี่ยนแปลง (%)	ผลิตไฟฟ้า	โรงแยกก๊าซ	อุตสาหกรรม	NGV	รวม
2552	0.2	2.5	6.9	84.2	3.2
2553	12.0	8.9	23.5	26.8	13.3
2554	-9.3	33.0	19.2	27.5	2.6

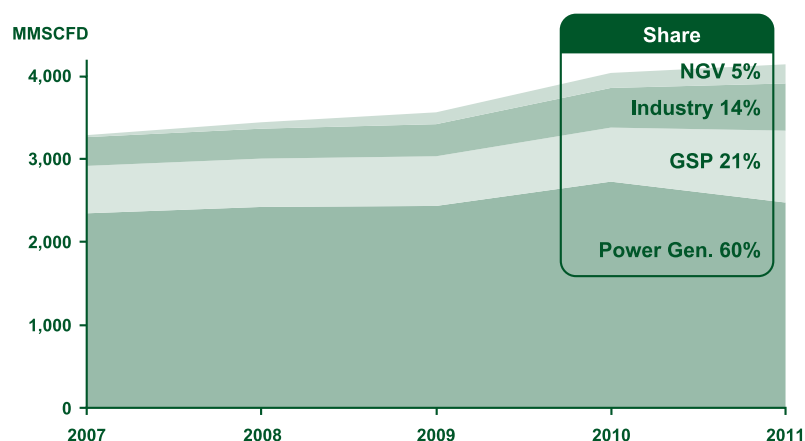
● **การใช้ลิกไนต์/ถ่านหิน** ในปี 2554 การใช้อยู่ที่ระดับ 35 ล้านตัน ลดลงจากปี 2553 (คิดจากค่าความร้อน) ร้อยละ 1.1 ประกอบด้วยการใช้ลิกไนต์ 19 ล้านตัน และถ่านหินนำเข้า 16 ล้านตัน เป็นการใช้น้ำมันในภาคการผลิตไฟฟ้าของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) จำนวน 17 ล้านตัน ที่เหลือจำนวน 2 ล้านตัน ส่วนใหญ่ถูกนำไปใช้ในอุตสาหกรรมการผลิตปูนซีเมนต์

● **กำลังการผลิตติดตั้งไฟฟ้า** ในปี 2554 อยู่ที่ 31,447 เมกะวัตต์ เพิ่มขึ้นจากปี 2553 ซึ่งอยู่ที่ 30,920 เมกะวัตต์ หรือเพิ่มขึ้น 527 เมกะวัตต์ โดย กฟผ. มีกำลังการผลิตติดตั้งสูงสุดคิดเป็นสัดส่วนร้อยละ 48 รองลงมาคือผู้ผลิตไฟฟ้าอิสระ (IPP) ร้อยละ 38 ผู้ผลิตไฟฟ้าขนาดเล็ก (SPP) ร้อยละ 7 และซื้อไฟฟ้าจากต่างประเทศ ร้อยละ 7

● **ความต้องการไฟฟ้าสูงสุด (Gross Peak Load)** เกิดขึ้น ณ วันที่ 24 พฤษภาคม 2554 เวลา 14.00 น. ที่ระดับ 24,518 เมกะวัตต์ โดยต่ำกว่า Peak ของปี 2553 ซึ่งอยู่ที่ระดับ 24,630 เมกะวัตต์ อยู่ 112 เมกะวัตต์ หรือคิดเป็นลดลงร้อยละ 0.5 เนื่องจากในช่วงต้นปี 2554 ยังคงมีอากาศหนาวเย็นประกอบกับฝนที่มาเร็วกว่าปกติ ทำให้น้ำร้อนปีนี้มีความเย็นกว่าปีที่ผ่านมา

● **Natural Gas Consumption.** In 2011, the demand for natural gas was at a level of 4,143 million standard cubic feet per day (MMSCFD), increasing by 2.6% from 4,039 MMSCFD in 2010. The use of natural gas as feedstock in the petrochemical industry and others increased by 33.0% as the Gas Separation Plant (GSP) Unit 6, with a generating capacity of 800 MMSCFD, came on stream at the end of 2010 and had run on a commercial scale throughout the year 2011. Natural gas demand in the industrial sector and for use as fuel for vehicles (NGV) increased by 19.2% and 27.5% respectively, while the demand for power generation dropped by 9.3% due to the decrease in power demand this year.

Natural Gas Consumption by Sector



Growth Rate (%)	Power Generation	Gas Separation Plant	Industry	NGV	Total
2009	0.2	2.5	6.9	84.2	3.2
2010	12.0	8.9	23.5	26.8	13.3
2011	-9.3	33.0	19.2	27.5	2.6

● **Lignite/Coal Consumption.** In 2011, lignite/coal consumption totaled 35 million tons, increasing by 1.1% from the previous year (based on the heating value), divided into consumption of lignite at 19 million tons and imported coal at 16 million tons. Of the total lignite consumption, 17 million tons was used for power generation by EGAT; the remaining 2 million tons was mainly used for cement manufacturing.

● **Installed Capacity.** Thailand's installed capacity in 2011 was at 31,447 MW, an increase of 527 MW from 30,920 MW in 2010. The Electricity Generating Authority of Thailand (EGAT) held the largest share of 48%. Next to it was Independent Power Producers (IPP), holding a share of 38%; then Small Power Producers (SPP), 7%; and power purchase from foreign sources, 7%.

● **Gross Peak Load.** The peak load occurred on Tuesday, 24 May 2011, at 14.00 hrs, reaching 24,518 MW which was 112 MW lower than the 2010 peak load (24,630 MW), or a decrease of 0.5%, because in early 2011 the weather was still cold, coupled with early rainfall in summer, making the temperature in the past summer lower than that in the previous year.

● **การผลิตไฟฟ้า** ปริมาณการผลิตและการรับซื้อของ กฟผ. ในปี 2554 มีจำนวน 162,343 กิกะวัตต์ ชั่วโมง ลดลงจากปี 2553 ร้อยละ 0.8 โดยมีสัดส่วนการผลิตไฟฟ้าจากก๊าซธรรมชาติคิดเป็นสัดส่วนร้อยละ 67 จากถ่านหินคิดเป็นสัดส่วนร้อยละ 19 จากน้ำเขาคิดเป็นสัดส่วนร้อยละ 7 จากพลังน้ำคิดเป็นสัดส่วนร้อยละ 5 จากน้ำมันคิดเป็นสัดส่วนร้อยละ 1 และจากพลังงานทดแทนคิดเป็นสัดส่วนร้อยละ 1

● **การใช้ไฟฟ้า** ในปี 2554 อยู่ที่ระดับ 148,855 กิกะวัตต์ ชั่วโมง ลดลงจากปี 2553 ร้อยละ 0.3 เนื่องจากในช่วงต้นปีประเทศไทยมีอากาศที่หนาวเย็นเป็นเวลานานและมีฝนตกมากกว่าปกติ รวมถึงเหตุการณ์แผ่นดินไหวและสึนามิในประเทศญี่ปุ่นที่ส่งผลกระทบต่อภาคอุตสาหกรรมและภาคธุรกิจของไทย ประกอบกับในช่วงปลายปีเกิดภัยพิบัติอุทกภัยรวมถึงนิคมอุตสาหกรรมทั้ง 7 แห่งในเขตจังหวัดพระนครศรีอยุธยาและจังหวัดปทุมธานี ส่งผลกระทบต่อภาคอุตสาหกรรม คริวเรือน และเกษตรกรรม โดยการใช้ไฟฟ้าในภาคอุตสาหกรรมมีสัดส่วนการใช้มากที่สุดคิดเป็นร้อยละ 46 มีการใช้ไฟฟ้าลดลงร้อยละ 0.3 ภาคธุรกิจมีการใช้ไฟฟ้าเพิ่มขึ้นร้อยละ 2.7 ภาคครัวเรือนมีการใช้ไฟฟ้าลดลงร้อยละ 1.3 และภาคเกษตรกรรมมีการใช้ไฟฟ้าลดลงร้อยละ 11.5

● **การใช้ไฟฟ้ารายสาขา** ปี 2554 ของกลุ่มอุตสาหกรรมและธุรกิจที่สำคัญในช่วงสามไตรมาสแรกมีแนวโน้มเพิ่มขึ้น ถึงแม้ว่าในช่วงไตรมาสที่สองจะได้รับผลกระทบจากเหตุการณ์ภัยพิบัติในประเทศญี่ปุ่น แต่ก็สามารถปรับฟื้นตัวได้ในไตรมาสที่สาม แต่ในช่วงไตรมาสสุดท้ายประเทศไทยประสบกับเหตุการณ์ภัยพิบัติอุทกภัย ส่งผลให้โรงงานอุตสาหกรรมและธุรกิจบางประเภทไม่สามารถดำเนินการได้ โดยเฉพาะอุตสาหกรรมอิเล็กทรอนิกส์ ยานยนต์ สิ่งทอ และพลาสติก ที่มีการใช้ไฟฟ้าลดลงมาก เนื่องจากโรงงานส่วนใหญ่อยู่ในนิคมอุตสาหกรรมที่ได้รับผลกระทบจากน้ำท่วม นอกจากนี้ยังส่งผลกระทบต่อกลุ่มธุรกิจที่สำคัญ ได้แก่ โรงแรม ขยายปลีก และการก่อสร้าง เนื่องจากภาวะน้ำท่วมทำให้ต้องปิดกิจการในช่วงเวลาดังกล่าว ประกอบกับบางประเทศประกาศห้ามประชาชนเดินทางเข้าประเทศไทย

● **ค่าเอฟที** ในปี 2554 มีการประกาศใช้โครงสร้างอัตราค่าไฟฟ้าใหม่ ตั้งแต่รอบเดือนกรกฎาคม 2554 ส่งผลให้ค่าเอฟทีมีการเปลี่ยนแปลง ดังนี้

ครั้งที่ 1 : ช่วงเดือนมกราคม-เมษายน 2554 อยู่ที่อัตรา 86.88 สตางค์ต่อหน่วย ปรับลดลง 5.67 สตางค์ต่อหน่วย

ครั้งที่ 2 : ช่วงเดือนพฤษภาคม-สิงหาคม 2554 อยู่ที่อัตรา 95.81 สตางค์ต่อหน่วย ปรับเพิ่มขึ้น 8.93 สตางค์ต่อหน่วย

ครั้งที่ 3 : ช่วงเดือนกันยายน-ธันวาคม 2554 อยู่ที่อัตรา -6.00 สตางค์ต่อหน่วย เนื่องจากการปรับโครงสร้างอัตราค่าไฟฟ้าใหม่ โดยนำค่าเอฟทีช่วงเดือนพฤษภาคม-สิงหาคม 2554 จำนวน 95.81 สตางค์ต่อหน่วย รวมในโครงสร้างอัตราค่าไฟฟ้าขยายปลีกที่ใช้มาตั้งแต่เดือนตุลาคม 2548 ทั้งนี้ การที่ค่าเอฟทีติดลบเนื่องจากการนำเงินที่เรียกคืนจากการลงทุนที่ต่ำกว่าแผนของการไฟฟ้าทั้งสามแห่งระหว่างปี 2551-2553 มาลดค่าเอฟทีให้แก่ผู้ใช้ไฟฟ้าทุกราย เป็นเวลา 6 เดือน

● **Power Generation.** The amount of power generation, together with power purchase by EGAT, in 2011 totaled 162,343 gigawatt-hour (GWh), decreasing by 0.8% compared with that in 2010. The share of individual fuel types used for power generation was as follows: natural gas, 67%; lignite/coal, 19%; imported electricity, 7%; hydropower, 5%; oil, 1%; and renewable energy, 1%.

● **Power Demand.** In 2011, power demand totaled 148,855 GWh, a decrease of 0.3% from that in 2010 because of lingering cold weather at the beginning of the year and more than usual rainfall in Thailand, coupled with the impact of the earthquake and tsunami incidents in Japan on the industrial and commercial sectors in Thailand. Moreover, at the end of the year, the domestic flood crisis badly affected seven industrial estates in Phra Nakhon Si Ayutthaya and Pathum Thani provinces, creating considerable impact on the industrial, household and agricultural sectors. Power demand in the industrial sector (holding the largest share of 46% of the total demand) decreased by 0.3%, the commercial increased by 2.7%, and that in the household and agricultural sectors also decreased by 1.3% and 11.5% respectively.

● **Power Demand by Sector.** Power demand of each major cluster in the industrial and commercial sector in the first three quarters of 2011 was on a rising trend. Despite the impact of Japanese disasters on Thailand in the 2nd quarter, the demand rebounded in the 3rd quarter. However, in the last quarter, Thailand was badly shattered by the domestic flood crisis, which caused shut downs of a number of industrial factories and businesses, particularly electronics, automobile, textile and plastic, as they are in the industrial estates located in flood affected areas, hence a substantial decrease in power demand. In addition, major business, such as hotels, retail shops and construction business, had to shut down during that period as well due to the flood. Moreover, some foreign countries issued a warning to their citizens to avoid travelling to Thailand during the flooding.

● **The Automatic Tariff Adjustment Mechanism (F_t).** In 2011, the new power tariff structure was put into effect, starting in the month of July 2011, resulting in several revisions of the F_t charge as follows:

1st revision : for the round of January–April 2011, the F_t rate was at 0.8688 Baht/unit, decreasing by 0.0567 Baht/unit.

2nd revision : for the round of May–August 2011, the F_t rate was at 0.9581 Baht/unit, increasing by 0.0893 Baht/unit.

3rd revision : for the round of September–December 2011, the F_t rate was at -0.06 Baht/unit, resulting from the power tariff structure reform -- the F_t rate for the round of May–August 2011, i.e. 0.9581 Baht/unit, was included in the retail power tariff structure which has been in use since October 2005. The F_t rate turned out to be a minus figure because the “call back” money from the three Power utilities, as their investments during 2008–2010 could not be materialized as planned, was used as F_t reduction for power consumers for a period of six months.

Table 1.1-1
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : Barrels/Day (Crude Oil Equivalent)

	2006					2007					2008					2009					2010					2011					2012																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Production	765,110	793,721	848,354	894,765	989,482	894,765	989,482	1,018,472	989,482	894,765	989,482	1,018,472	3.7	6.9	5.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6

Table 1.1-1Y
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : Barrels/Day (Crude Oil Equivalent)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Production	176,356	198,155	221,339	250,465	290,923	309,599	331,936	368,138	392,644	450,073	523,408	524,089
Crude	16,733	19,181	21,351	23,968	24,503	26,317	24,940	26,553	23,763	26,419	27,463	29,420
Condensate	13,820	16,308	16,784	17,538	19,799	24,146	26,192	27,863	27,271	32,436	40,774	42,177
Natural Gas	87,956	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,002	305,034
Lignite	39,841	42,296	54,660	73,846	86,017	91,295	96,021	107,695	114,816	131,686	142,732	124,868
Hydro	18,006	16,460	24,469	21,752	19,999	18,411	16,036	19,548	29,267	31,940	31,437	22,590
Import (Net)	224,765	234,734	301,538	354,756	371,980	419,731	492,902	540,526	640,253	739,280	709,378	621,827
Crude	161,404	154,906	204,186	210,001	220,739	277,501	323,859	372,885	452,114	633,170	728,757	679,728
Condensate	-8,931	-13,511	-14,459	-15,157	-17,039	-14,532	-10,227	-16,662	-12,871	-21,935	-21,452	-16,405
Petroleum Products	67,687	88,089	104,985	154,493	161,350	149,664	166,417	163,753	170,416	77,912	-40,379	-65,105
Coal	3,896	4,504	5,691	4,264	5,871	6,247	11,704	19,001	29,356	48,717	41,133	20,424
Electricity	709	746	1,135	1,155	1,059	851	1,149	1,549	1,238	1,416	1,319	2,796
Natural Gas												389
Stock Change	8,511	-8,096	8,755	439	-7,222	-2,954	3,222	-6,985	8,397	32,823	-36,720	-30,508
Consumption	389,099	437,456	510,109	600,472	664,612	718,553	804,947	899,880	1,007,874	1,120,759	1,175,656	1,086,464
Petroleum Products	237,400	270,068	323,925	386,018	410,794	451,899	509,873	566,110	635,902	685,204	681,331	610,785
Natural Gas	87,956	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,003	305,423
Coal	3,896	4,504	5,691	4,265	5,872	6,248	11,704	19,001	29,356	48,717	41,133	20,424
Lignite	41,132	41,768	50,814	73,921	86,283	91,714	97,438	107,193	114,584	125,890	139,433	124,446
Hydro & Imported Elec.	18,715	17,206	25,604	22,907	21,058	19,262	17,185	21,097	30,505	33,356	32,756	25,386
Import/Consumption	58	54	59	59	56	58	61	60	64	66	60	57
Non-Energy Use	3,511	3,529	4,013	4,310	5,513	13,731	16,669	15,769	16,626	35,771	93,850	89,960

Table 1.1-1Y (Cont.)
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : Barrels/Day (Crude Oil Equivalent)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Production	547,787	588,596	594,367	631,698	666,413	676,286	737,579	765,110	793,721	848,354	894,765	989,482	1,018,472
Crude	34,006	57,937	61,914	75,567	96,322	85,516	113,890	128,950	134,563	143,935	154,041	153,174	139,991
Condensate	45,171	47,528	47,188	48,897	57,032	62,075	63,243	68,488	71,760	77,265	76,361	80,663	76,576
Natural Gas	334,169	350,069	341,406	356,897	373,241	387,695	411,849	422,782	451,905	499,246	537,370	630,858	643,514
Lignite	119,305	106,981	116,451	117,635	107,822	114,898	123,422	109,599	100,152	97,138	96,072	101,052	123,167
Hydro	15,136	26,081	27,408	32,702	31,996	26,102	25,175	35,291	35,341	30,770	30,921	23,735	35,224
Import (Net)	657,303	684,592	750,732	797,089	868,283	988,292	979,920	978,121	997,646	951,993	922,035	1,000,632	1,017,056
Crude	698,895	643,063	674,211	682,197	709,070	813,422	762,121	763,858	752,196	765,697	762,294	786,243	760,904
Condensate	-11,749	-4,423	-3,482	-4,560									
Petroleum Products	-75,020	-40,892	-76,091	-66,411	-57,345	-55,733	-51,047	-91,285	-105,481	-166,682	-193,992	-162,977	-133,513
Coal	40,997	52,177	61,850	70,025	88,931	94,170	107,164	140,264	180,274	199,304	204,976	211,422	204,254
Electricity	3,910	5,088	4,973	4,856	4,278	5,795	7,494	8,873	7,700	4,789	4,239	12,425	18,457
Natural Gas	270	29,579	89,271	110,982	123,349	130,638	154,188	156,411	162,957	148,885	144,518	153,519	166,954
Stock Change	-41,584	-10,736	8,762	-4,167	-32,091	-12,553	-21,588	-17,339	-44,686	-37,774	-93,358	-81,243	-117,842
Consumption	1,118,679	1,147,162	1,199,134	1,282,157	1,348,049	1,450,894	1,520,122	1,544,741	1,603,870	1,617,994	1,662,572	1,782,948	1,844,536
Petroleum Products	611,174	578,832	560,322	589,160	623,627	686,612	689,418	673,786	666,775	633,720	642,701	652,464	673,881
Natural Gas	334,439	379,610	430,562	467,743	496,438	518,173	565,854	579,007	614,667	647,953	681,717	784,184	810,274
Coal	40,997	52,177	61,850	70,025	88,931	94,170	107,157	140,264	180,274	199,304	204,962	211,422	204,254
Lignite	113,023	105,374	114,019	117,671	102,779	120,042	125,024	107,520	99,113	101,458	98,032	98,718	102,446
Hydro & Imported Elec.	19,046	31,169	32,381	37,558	36,274	31,897	32,669	44,164	43,041	35,559	35,160	36,160	53,681
Import/Consumption	59	60	63	62	64	68	64	63	62	59	55	56	55
Non-Energy Use	127,995	136,762	137,203	150,797	218,738	226,237	218,965	215,829	232,183	220,127	247,586	288,409	308,834

Table 1.1-2Y
Primary Commercial Energy Production (Physical Unit)

Year	Hydro (GWh)	Lignite (Tons)				NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)					
		EGAT		Others	Total			Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
1987	4,056	5,564,537	191,000	5,755,537	1,175,721	6,931,257	178,658	5,542	6,108				6,108
1988	3,718	5,717,250	237,396	5,954,646	1,340,413	7,295,059	211,641	6,558	6,549			472	7,020
1989	5,512	6,541,191	318,585	6,859,776	2,150,146	9,009,922	211,399	6,731	7,372		421		7,793
1990	4,900	9,652,991	156,262	9,809,254	2,629,219	12,438,473	230,261	7,034	8,307		441		8,748
1991	4,505	11,513,775	242,699	11,756,475	2,889,540	14,646,015	285,599	7,940	8,308		450	186	8,944
1992	4,159	11,844,352	253,950	12,098,302	3,290,259	15,388,561	304,356	9,710	8,601		489	542	9,632
1993	3,613	11,221,088	211,800	11,432,888	4,105,039	15,537,927	342,762	10,504	8,054		469	580	9,103
1994	4,404	11,906,553	225,065	12,131,618	4,963,253	17,094,871	378,779	11,174	8,119		531	1,042	9,692
1995	6,593	13,191,880	144,232	13,336,112	5,084,686	18,420,798	401,221	10,937	6,435		514	1,724	8,674
1996	7,215	16,381,301		16,381,301	5,309,093	21,690,394	463,555	13,044	6,844		472	2,353	9,669
1997	7,082	17,692,415		17,692,415	5,746,141	23,438,556	570,777	16,352	6,450	1,962	483	1,129	10,024
1998	5,089	14,419,327		14,419,327	5,576,868	19,996,195	619,591	16,914	7,540	2,268	376	554	10,738
1999	3,410	12,021,265		12,021,265	6,240,043	18,261,308	678,770	18,115	1,176	1,846	363	492	12,412
2000	5,891	13,621,615	30,000	13,651,615	4,134,132	17,785,747	713,015	19,113	8,914	2,728	321	647	21,205
2001	6,174	15,314,436	133,000	15,447,436	4,159,559	19,606,995	693,469	18,924	10,551	2,897	240	1,168	22,598
2002	7,367	14,994,739	187,000	15,181,739	4,420,245	19,601,984	724,936	19,609	12,823	2,062	241	4,940	27,582
2003	7,208	15,591,841	146,000	15,737,841	3,105,554	18,843,395	758,134	22,872	17,985	1,895	309	7,986	35,158
2004	5,896	16,561,572	95,868	16,657,440	3,402,404	20,059,844	789,651	24,963	14,412	1,648	291	8,707	31,299
2005	5,671	16,534,142	36,522	16,570,664	4,307,512	20,878,176	836,555	25,363	16,724	2,427	292	15,875	41,570
2006	7,950	15,763,798	56,000	15,819,798	3,250,810	19,070,608	858,763	27,466	18,251	3,028	354	18,580	47,067
2007	7,961	16,117,809	27,112	16,144,921	2,094,255	18,239,176	917,917	28,778	15,378	2,812	354	23,085	49,115
2008	6,951	16,420,847	23,248	16,444,095	1,651,290	18,095,385	1,016,856	31,071	16,455	2,381	431	25,748	52,680
2009	6,966	15,631,766		15,631,766	1,934,334	17,566,100	1,091,516	30,623	10,609	2,262	454	35,116	56,225
2010	5,347	15,987,263		15,987,263	2,270,799	18,258,062	1,281,410	32,349	9,733	1,409	421	36,386	55,909
2011	7,935	17,558,336		17,558,336	3,768,770	21,327,106	1,307,117	30,710	9,883	1,981	381	30,466	51,097

Table 1.1-3Y
Primary Commercial Energy Production

Unit : KTOE

Year	Hydro	Lignite				NG	Condensate	Crude Oil					Grand Total	
		EGAT		Non EGAT	Total			Benjamas	Sirikit	Tantawan	Fang	Others		Total
		Mae-Moh	Krabi											
1987	899	1,378	49	1,427	513	1,940	4,390	690	835				835	8,754
1988	824	1,416	61	1,477	584	2,061	5,200	816	895			64	960	9,861
1989	1,221	1,620	82	1,702	937	2,639	5,194	838	1,008		58		1,066	10,958
1990	1,086	2,391	40	2,431	1,146	3,577	5,658	875	1,136		60		1,196	12,392
1991	998	2,852	63	2,915	1,260	4,175	7,017	988	1,136		62	25	1,223	14,401
1992	921	2,934	65	2,999	1,434	4,433	7,478	1,208	1,176		67	74	1,317	15,357
1993	800	2,779	55	2,834	1,790	4,624	8,422	1,307	1,101		64	79	1,245	16,398
1994	976	2,949	58	3,007	2,164	5,171	9,307	1,391	1,110		73	142	1,325	18,170
1995	1,461	3,268	37	3,305	2,217	5,522	9,858	1,361	880		70	236	1,186	19,388
1996	1,598	4,058		4,058	2,314	6,372	11,390	1,623	936		65	322	1,322	22,305
1997	1,569	4,382		4,382	2,505	6,887	14,024	2,035	882	268	66	154	1,371	25,886
1998	1,127	3,572		3,572	2,431	6,003	15,223	2,105	1,031	310	51	76	1,468	25,926
1999	755	2,978		2,978	2,720	5,698	16,677	2,254	161	252	50	67	1,697	27,081
2000	1,305	3,374	8	3,382	1,802	5,184	17,519	2,378	1,219	373	44	88	2,899	29,285
2001	1,368	3,793	34	3,827	1,813	5,640	17,039	2,355	1,443	396	33	160	3,090	29,492
2002	1,632	3,714	48	3,762	1,927	5,689	17,812	2,440	1,753	282	33	675	3,771	31,344
2003	1,597	3,862	38	3,900	1,354	5,254	18,627	2,846	2,459	259	42	1,092	4,807	33,131
2004	1,306	4,102	25	4,127	1,483	5,610	19,402	3,106	1,971	225	40	1,190	4,280	33,704
2005	1,256	4,096	9	4,105	1,878	5,983	20,554	3,156	2,287	332	40	2,171	5,684	36,633
2006	1,761	3,905	14	3,919	1,417	5,336	21,100	3,418	2,496	414	48	2,541	6,435	38,050
2007	1,764	3,992	7	3,999	913	4,912	22,553	3,581	2,103	384	48	3,156	6,716	39,526
2008	1,540	4,067	6	4,073	720	4,793	24,984	3,867	2,250	326	59	3,521	7,203	42,387
2009	1,543	3,872		3,872	843	4,715	26,819	3,811	1,451	309	62	4,802	7,688	44,576
2010	1,185	3,960		3,960	990	4,950	31,484	4,026	1,331	193	58	4,975	7,644	49,289
2011	1,758	4,349		4,349	1,643	5,992	32,116	3,822	1,351	271	52	4,166	6,987	50,675

Table 1.1-4Y
Primary Commercial Energy Import (Net) (Physical Unit)

Year	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)		
				Gasoline	Diesel	J.P.&Kerosene	Fuel Oil	LPG		Others	Total	NG
1987	311,495	9,367	-3,581,598	223	2,680	368	487	227		3,985		415
1988	361,076	9,014	-5,433,155	375	3,763	545	286	270		5,240		438
1989	455,031	11,849	-5,798,632	610	4,304	495	247	695		6,351		665
1990	340,897	12,187	-6,078,577	643	5,576	524	1,777	519	-5	9,035		676
1991	469,422	12,810	-6,833,180	786	5,144	580	2,665	191	-94	9,272		620
1992	500,854	16,148	-5,843,959	953	4,271	679	3,175	-56	-551	8,472		500
1993	935,759	18,794	-4,101,385	635	5,328	648	3,331	-6	-566	9,370		673
1994	1,519,212	21,639	-6,682,085	594	4,715	515	3,499	131	-176	9,278		907
1995	2,347,159	26,237	-5,161,711	379	5,729	178	3,701	-112	-368	9,507		725
1996	3,905,824	36,844	-8,820,929	-885	4,063	-163	1,727	-218	-401	4,123		832
1997	3,288,765	42,291	-8,602,987	-1,881	52	-231	231	-870	-187	-2,885		773
1998	1,632,980	39,446	-6,578,884	-1,691	-1,487	-261	462	-870	-510	-4,358	791	1,637
1999	3,277,890	40,558	-4,711,795	-1,657	-891	-1,119	598	-1,346	-727	-5,142	549	2,290
2000	4,183,196	37,420	-1,778,593	-1,073	-1,031	-1,205	-147	-1,240	2,076	-2,620	60,247	2,988
2001	4,945,205	39,125	-1,396,547	-1,336	-1,324	-879	-1,504	-1,403	1,823	-4,624	181,330	2,913
2002	5,598,838	39,589	-1,828,900	-1,006	-1,625	-1,188	-767	-1,270	1,784	-4,072	225,429	2,844
2003	7,110,436	41,148	41	-969	-1,543	-625	-569	-1,426	1,523	-3,609	250,548	2,506
2004	7,549,953	47,333	-110	-1,167	-1,668	-376	-325	-1,643	1,566	-3,613	266,082	3,403
2005	8,568,291	44,227		-2,022	-1,090	-601	539	-1,755	1,196	-3,732	313,190	4,389
2006	11,214,797	44,328	124	-1,922	-2,576	-1,017	-314	-1,067	1,017	-5,879	317,705	5,197
2007	14,413,796	43,651	51	-1,417	-2,498	-443	-1,942	-514	511	-6,304	331,002	4,510
2008	15,979,001	44,556		-1,478	-3,717	-1,407	-3,370	798	-320	-9,495	303,246	2,812
2009	16,388,840	44,237		-1,337	-4,411	-1,618	-3,795	1,367	-1,121	-10,915	293,548	2,483
2010	16,904,205	45,627		-1,342	-5,444	-1,827	-3,133	2,901	232	-8,613	311,830	7,277
2011	16,331,105	44,156		-935	-4,649	-1,297	-3,151	2,631	491	-6,910	303,402	10,810
											35,719	339,121

Table 1.1-5Y
Primary Commercial Energy Import (Net)

Unit : KTOE

Year	Coal	Crude Oil	Condensate	Petroleum Products						Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	J.P.&Kerosene	Fuel Oil	LPG	Others		NG	LNG	
1987	194	8,055	-446	166	2,310	301	458	143		35			11,216
1988	225	7,752	-676	280	3,244	446	269	170		37			11,747
1989	284	10,190	-722	454	3,710	405	233	438		57			15,049
1990	213	10,481	-756	479	4,806	429	1,673	327	-4	58			17,706
1991	293	11,016	-850	585	4,434	474	2,508	120	-70	53			18,563
1992	313	13,887	-727	710	3,682	555	2,989	-35	-411	43			21,006
1993	584	16,163	-510	473	4,593	530	3,135	-4	-421	57			24,600
1994	948	18,610	-832	442	4,064	421	3,293	83	-131	77			26,975
1995	1,465	22,564	-642	282	4,938	146	3,484	-70	-275	62			31,954
1996	2,438	31,686	-1,098	-659	3,502	-133	1,626	-137	-299	71			36,997
1997	2,053	36,370	-1,071	-1,401	45	-189	217	-548	-139	66			35,403
1998	1,019	33,923	-819	-1,260	-1,282	-214	435	-548	-380	140	19		31,033
1999	2,046	34,880	-586	-1,234	-768	-915	563	-848	-542	195	13		32,804
2000	2,611	32,181	-221	-800	-889	-985	-138	-782	1,547	255	1,480		34,259
2001	3,087	33,648	-174	-996	-1,142	-718	-1,415	-884	1,358	248	4,455		37,467
2002	3,495	34,046	-228	-750	-1,401	-971	-722	-800	1,330	242	5,539		39,780
2003	4,438	35,388		-722	-1,330	-511	-536	-899	1,135	214	6,156		43,333
2004	4,713	40,707		-869	-1,438	-307	-306	-1,035	1,167	290	6,538		49,460
2005	5,348	38,035		-1,506	-939	-491	508	-1,106	987	374	7,695		48,905
2006	7,000	38,122		-1,432	-2,220	-832	-295	-672	896	443	7,806		48,816
2007	8,997	37,540		-1,056	-2,154	-362	-1,828	-324	459	384	8,133		49,789
2008	9,974	38,318		-1,101	-3,204	-1,150	-3,172	503	-217	240	7,451		47,642
2009	10,230	38,044		-996	-3,802	-1,322	-3,572	861	-850	212	7,212		46,017
2010	10,551	39,239		-1,000	-4,693	-1,494	-2,949	1,828	173	620	7,662		49,937
2011	10,194	37,974		-696	-4,008	-1,060	-2,966	1,658	421	921	7,455	878	50,771

Remarks : LPG includes Propane and Butane

Table 1.1-6Y
Primary Commercial Energy Consumption (Physical Unit)

Year	Hydro / Import (GWh)	Lignite (Tons)					NG&LNG (MMSCF)	Petroleum (Million Litres)	Imported Coal (Tons)
		EGAT		Total	Others	Total			
		Mae-Moh	Krabi						
1987	4,472	6,061,425	183,694	6,245,120	1,056,771	7,301,891	178,658	14,299	311,495
1988	4,156	5,681,773	213,978	5,895,751	1,316,064	7,211,815	220,975	16,302	361,076
1989	6,177	6,545,092	219,112	6,764,205	1,799,380	8,563,585	211,399	19,409	455,031
1990	5,576	9,619,613	255,710	9,875,323	2,600,686	12,476,010	230,261	22,957	340,987
1991	5,125	11,504,708	219,982	11,724,690	2,934,444	14,659,135	285,599	24,379	469,513
1992	4,659	12,129,274	241,265	12,370,539	3,193,113	15,563,652	304,356	26,856	500,946
1993	4,285	11,239,942	249,845	11,489,787	4,222,965	15,712,752	342,762	30,202	935,759
1994	5,311	11,908,173	247,711	12,155,884	4,897,708	17,053,592	378,779	33,523	1,519,212
1995	7,318	13,374,488	193,005	13,567,493	4,939,136	18,506,629	401,221	37,660	2,347,159
1996	8,047	16,405,340		16,405,340	4,688,467	21,093,807	463,555	40,793	3,905,842
1997	7,855	18,010,806		18,010,806	5,235,658	23,246,464	570,777	40,600	3,288,780
1998	6,726	15,388,095		15,388,095	5,344,323	20,732,418	620,381	36,521	1,632,970
1999	5,700	13,893,584		13,893,584	5,084,958	18,978,542	679,318	36,585	3,277,940
2000	8,879	14,120,569		14,120,569	3,430,011	17,550,580	773,183	35,027	4,183,209
2001	9,087	15,744,116		15,744,116	3,753,746	19,497,862	874,564	34,150	4,945,198
2002	10,211	15,035,329		15,035,329	4,503,816	19,539,145	950,087	35,908	5,598,850
2003	9,713	15,406,532		15,406,532	2,753,088	18,159,620	1,008,373	37,949	7,110,439
2004	9,300	16,536,694		16,536,694	4,006,700	20,543,394	1,055,404	41,650	7,549,950
2005	10,060	16,571,091		16,571,091	4,475,747	21,046,838	1,149,371	41,725	8,567,691
2006	13,147	15,815,374		15,815,374	3,036,745	18,852,119	1,176,088	41,051	11,214,800
2007	12,471	15,811,050		15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800
2008	9,763	16,407,465		16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,979,000
2009	9,448	15,818,265		15,818,265	2,042,528	17,860,793	1,384,714	40,065	16,387,662
2010	12,624	16,004,196		16,004,196	2,017,685	18,021,881	1,592,846	40,827	16,904,203
2011	18,745	17,161,168		17,161,168	1,806,990	18,968,158	1,645,841	42,248	16,331,105

Table 1.1-7Y
Primary Commercial Energy Consumption

Unit : KTOE

Year	Hydro / Import Electricity	Lignite					NG&LNG	Petroleum	Imported Coal	Total
		EGAT			Others	Total				
		Mae-Moh	Krabi	Total						
1987	934	1,501	47	1,548	504	2,052	4,390	11,848	194	19,418
1988	861	1,407	55	1,462	628	2,090	5,429	13,515	225	22,120
1989	1,278	1,621	56	1,677	858	2,535	5,194	16,166	284	25,457
1990	1,144	2,383	66	2,449	1,241	3,690	5,658	19,265	213	29,970
1991	1,051	2,850	57	2,907	1,400	4,307	7,017	20,501	293	33,169
1992	964	3,004	62	3,066	1,523	4,589	7,478	22,615	313	35,959
1993	857	2,784	64	2,848	2,014	4,862	8,422	25,446	584	40,171
1994	1,053	2,950	64	3,014	2,336	5,350	9,307	28,253	948	44,911
1995	1,523	3,313	50	3,363	2,356	5,719	9,858	31,736	1,465	50,301
1996	1,669	4,064		4,064	2,236	6,300	11,390	34,290	2,438	56,087
1997	1,635	4,461		4,461	2,497	6,958	14,024	34,003	2,053	58,673
1998	1,267	3,812		3,812	2,399	6,211	15,243	30,482	1,019	54,222
1999	950	3,441		3,441	2,199	5,640	16,691	30,502	2,046	55,829
2000	1,560	3,498		3,498	1,776	5,274	18,997	28,967	2,611	57,409
2001	1,616	3,900		3,900	1,791	5,691	21,488	27,964	3,087	59,846
2002	1,874	3,724		3,724	2,148	5,872	23,344	29,403	3,495	63,988
2003	1,811	3,816		3,816	1,313	5,129	24,776	31,123	4,438	67,277
2004	1,596	4,096		4,096	1,911	6,007	25,931	34,361	4,713	72,608
2005	1,630	4,105		4,105	2,135	6,240	28,240	34,407	5,348	75,865
2006	2,204	3,917		3,917	1,449	5,366	28,896	33,627	7,000	77,093
2007	2,148	3,916		3,916	1,030	4,946	30,676	33,277	8,997	80,044
2008	1,780	4,064		4,064	1,013	5,077	32,426	31,714	9,974	80,971
2009	1,755	3,918		3,918	974	4,892	34,022	32,075	10,229	82,973
2010	1,805	3,964		3,964	962	4,926	39,136	32,563	10,551	88,981
2011	2,679	4,251		4,251	862	5,113	40,438	33,631	10,194	92,055

Table1.2-1Y
Final Modern Energy Consumption (Physical Unit)

Year	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity (GWh)*		NG in Industry (MMSCF)		
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		Energy	Others	Total
1987	312	1,057	1,368	1,259	1,113	1,484	1,490	129	6,424	1,821	13,719	24,894	2,603		2,603
1988	361	1,316	1,677	1,401	1,299	1,623	1,832	126	7,280	1,905	15,466	28,110	3,306		3,306
1989	455	1,799	2,254	1,571	1,526	1,796	2,112	119	8,632	2,439	18,196	32,749	3,512	930	4,442
1990	341	2,601	2,942	1,716	1,746	1,941	2,292	123	9,765	2,679	20,262	38,174	5,551	4,990	10,541
1991	470	2,804	3,273	1,845	1,885	2,005	2,468	111	9,889	2,950	21,153	44,204	7,685	6,063	13,748
1992	501	3,141	3,641	2,059	2,217	2,118	2,724	112	10,282	3,553	23,065	49,290	11,873	6,263	18,135
1993	936	4,223	5,159	2,224	2,748	2,164	2,899	107	11,746	3,705	25,592	55,184	14,543	6,101	20,644
1994	1,519	4,898	6,417	2,404	3,419	2,173	3,134	114	12,814	4,202	28,259	62,483	19,211	5,189	24,400
1995	2,335	4,939	7,275	2,629	4,087	2,206	3,295	101	14,863	4,464	31,645	70,532	26,093	6,610	32,703
1996	3,840	4,688	8,528	2,902	4,842	2,076	3,393	98	16,507	4,585	34,404	78,282	28,057	6,670	34,727
1997	3,197	5,236	8,432	2,985	5,382	1,973	3,543	86	16,807	4,429	35,205	83,211	34,886	7,742	42,628
1998	1,528	5,030	6,558	2,757	4,969	2,199	3,315	55	14,979	3,688	31,962	82,435	33,514	6,303	39,817
1999	2,205	4,611	6,816	2,983	4,685	2,340	3,298	52	15,160	4,169	32,688	83,685	44,002	8,180	52,182
2000	2,053	3,723	5,776	3,375	3,427	3,335	3,494	49	14,945	4,009	32,634	90,257	66,281	7,704	73,985
2001	2,603	3,754	6,357	3,728	3,001	3,856	3,717	57	15,151	3,917	33,427	95,870	68,782		68,782
2002	3,197	4,504	7,700	3,882	2,985	4,341	3,778	62	16,036	4,283	35,366	103,248	76,205		76,205
2003	4,885	2,753	7,638	3,975	3,085	4,550	3,761	36	17,528	4,386	37,321	110,245	82,732		82,732
2004	5,356	4,007	9,363	4,035	3,029	4,631	4,242	23	19,569	4,768	40,298	119,304	98,784		98,784
2005	6,495	4,476	10,971	4,364	2,886	4,362	4,293	21	19,545	4,354	39,825	125,770	99,772		99,772
2006	7,265	3,037	10,302	5,074	2,656	4,559	4,519	20	18,350	3,956	39,134	131,428	107,803		107,803
2007	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	137,320	135,136		135,136
2008	10,072	2,124	12,196	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	139,978	162,535		162,535
2009	10,778	2,043	12,821	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	139,292	197,533		197,533
2010	11,289	2,018	13,307	7,587	2,908	4,509	4,712	15	18,468	2,475	40,674	153,884	234,578		234,578
2011	10,169	1,807	11,976	8,178	2,394	4,937	5,077	13	19,181	2,142	41,921	153,332	295,160		295,160

* Including Power Generation from SPP

** : Preliminary data

*** : Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 1.2-2Y
Final Modern Energy Consumption

Unit : KTOE

Year	Solid Fossil Fuel		Petroleum Products							Electricity*		NG in Industry			Total
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Energy	Others	Total	
1987	194	504	698	793	829	1,106	1,218	105	5,537	1,714	11,302	2,121	64	64	14,185
1988	225	628	853	883	968	1,210	1,497	103	6,275	1,793	12,729	2,395	81	81	16,058
1989	284	858	1,142	990	1,137	1,338	1,727	97	7,441	2,296	15,026	2,791	86	23	19,068
1990	213	1,241	1,454	1,082	1,301	1,446	1,874	101	8,417	2,521	16,742	3,253	136	123	21,708
1991	293	1,337	1,630	1,163	1,405	1,494	2,017	91	8,524	2,777	17,471	3,767	189	149	23,206
1992	313	1,498	1,811	1,297	1,652	1,578	2,227	92	8,863	3,344	19,053	4,200	292	154	25,510
1993	584	2,014	2,598	1,401	2,047	1,612	2,369	88	10,124	3,487	21,128	4,702	357	150	28,935
1994	948	2,336	3,284	1,515	2,547	1,619	2,562	93	11,046	3,955	23,337	5,324	472	127	32,544
1995	1,458	2,356	3,814	1,656	3,045	1,644	2,693	82	12,812	4,202	26,134	6,010	641	162	36,761
1996	2,397	2,236	4,633	1,829	3,608	1,547	2,773	80	14,229	4,315	28,381	6,670	689	164	40,537
1997	1,995	2,497	4,492	1,881	4,010	1,470	2,896	70	14,487	4,169	28,983	7,090	857	190	41,612
1998	954	2,399	3,353	1,737	3,702	1,639	2,709	45	12,912	3,471	26,215	7,024	823	155	37,570
1999	1,376	2,199	3,575	1,880	3,491	1,744	2,696	42	13,068	3,924	26,845	7,131	1,081	201	38,833
2000	1,282	1,776	3,058	2,127	2,553	2,484	2,856	40	12,882	3,774	26,716	7,691	1,629	189	39,283
2001	1,625	1,791	3,416	2,349	2,236	2,873	3,039	46	13,060	3,687	27,290	8,169	1,690	1,690	40,565
2002	1,995	2,148	4,143	2,446	2,224	3,235	3,088	51	13,822	4,032	28,898	8,798	1,872	1,872	43,711
2003	3,049	1,313	4,362	2,505	2,298	3,390	3,074	29	15,109	4,128	30,533	9,394	2,033	2,033	46,322
2004	3,343	1,911	5,254	2,543	2,257	3,451	3,467	19	16,868	4,488	33,093	10,166	2,427	2,427	50,940
2005	4,054	2,135	6,189	2,750	2,150	3,250	3,509	17	16,847	4,098	32,621	10,717	2,451	2,451	51,978
2006	4,535	1,449	5,984	3,198	1,979	3,397	3,693	16	15,817	3,723	31,823	11,199	2,649	2,649	51,655
2007	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,701	3,320	3,320	53,994
2008	6,287	1,013	7,300	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,928	3,993	3,993	54,692
2009	6,728	974	7,702	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,869	4,853	4,853	56,383
2010	7,047	962	8,009	4,781	2,166	3,360	3,851	12	15,919	2,330	32,419	13,112	5,764	5,764	59,304
2011	6,347	862	7,209	5,153	1,784	3,678	4,150	11	16,534	2,016	33,326	13,065	7,252	7,252	60,852

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 1.3-1
Energy Reserves (Preliminary Data) 31 December 2010

Energy Type (Original Unit)	Reserves*		Production 2010	Available for Use (Year)		
	P1	P1+P2 P1+P2+P3		P1	P1+P2 P1+P2+P3	P1+P2+P3
Petroleum						
- Crude Oil (MMBBL)	197	659	55	4	12	16
- Condensate (MMBBL)	245	581	32	8	18	22
- Natural Gas (BCF)	10,589	22,068	1,044	10	21	27
Lignite (M. Tons)	1,181	2,007	18	65	110	110
Energy Type (KTOE)	Reserves*		Production 2010	Available for Use (Year)		
	P1	P1+P2 P1+P2+P3		P1	P1+P2 P1+P2+P3	P1+P2+P3
Petroleum						
- Crude Oil	317,649	704,564	37,264			
- Condensate	26,974	90,102	7,586	4	12	16
- Natural Gas	30,515	72,259	4,026	8	18	22
Lignite	260,160	542,203	25,652	10	21	27
Total	339,752	577,222	5,244	65	110	110
Total						
657,401 1,281,785 42,509						
Energy Type (MMBBL Crude Oil Equivalent)	Reserves*		Production 2010	Available for Use (Year)		
	P1	P1+P2 P1+P2+P3		P1	P1+P2 P1+P2+P3	P1+P2+P3
Petroleum						
- Crude Oil	2,323	5,153	273			
- Condensate	197	659	55	4	12	16
- Natural Gas	223	528	29	8	18	22
Lignite	1,903	3,965	188	10	21	27
Total	2,485	4,222	38	65	110	110
Total						
4,808 9,374 10,887						

Remarks : P1 = Proved Reserves, P2 = Probable Reserves, P3 = Possible Reserves

Source : *Department of Mineral Fuels (DMF)





ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 2

OIL

บทที่ 2

น้ำมัน

CRUDE OIL/CONDENSATE

REFINERY

PETROLEUM PRODUCTS

DEMAND AND SUPPLY





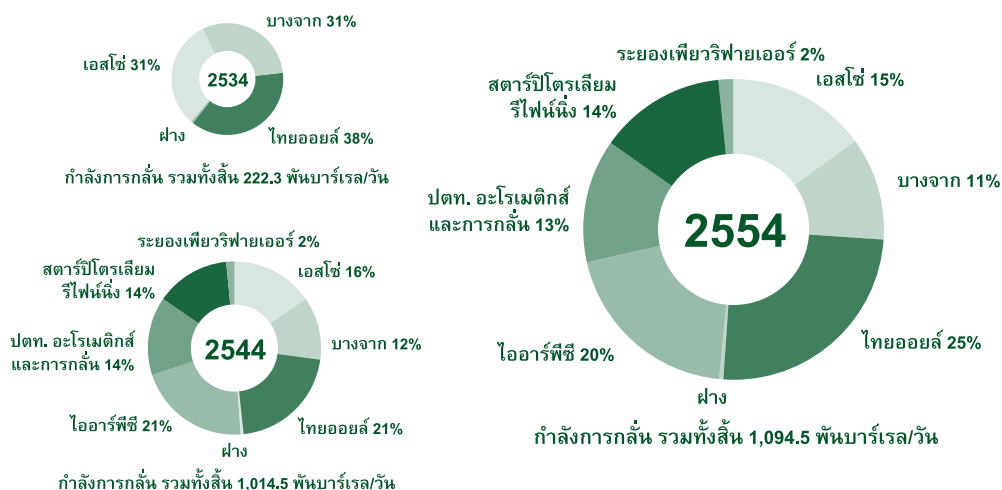
บทที่ 2 น้ำมัน

การผลิตน้ำมันดิบ ในปี 2554 มีปริมาณการผลิตน้ำมันดิบในประเทศรวมทั้งสิ้น 139,991 บาร์เรลต่อวัน โดยแหล่งน้ำมันดิบที่สำคัญของไทย เช่น แหล่งเบญจมาศ สิริกิติ์ ทานตะวัน จัสมิน และบิกออย์โปรเจ็คของ บริษัทยูโนแคล ประเทศไทย จำกัด ฯลฯ

การนำเข้าและส่งออกน้ำมันดิบ การนำเข้าส่วนใหญ่มาจากกลุ่มประเทศตะวันออกกลาง ร้อยละ 78 กลุ่มประเทศตะวันออกไกล ร้อยละ 8 และแหล่งอื่น ๆ ร้อยละ 14 ในขณะที่ไทยก็มีการส่งออกน้ำมันดิบไปยังต่างประเทศเช่นกัน อาทิ เกาหลี สหรัฐอเมริกา และสิงคโปร์

การกลั่นน้ำมัน ในปี 2554 ประเทศไทยมีโรงกลั่นน้ำมันจำนวนทั้งสิ้น 8 โรง ประกอบด้วย บริษัทเอสโซ่ ประเทศไทย จำกัด (มหาชน) บริษัทบางจากปิโตรเลียม จำกัด (มหาชน) บริษัทไทยออยล์ จำกัด (มหาชน) บริษัท ปตท. อะโรเมติกส์และการกลั่น จำกัด (มหาชน) บริษัทสตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด บริษัทไออาร์พีซี จำกัด (มหาชน) บริษัทระยองเพียวรีฟายเออร์ จำกัด (มหาชน) และโรงกลั่นน้ำมันฝาง โดยมีกำลังการกลั่นรวมทั้งสิ้น 1,094,500 บาร์เรลต่อวัน

กำลังการกลั่นน้ำมันของประเทศไทย ปี 2534 ปี 2544 และปี 2554



Chapter 2

Oil



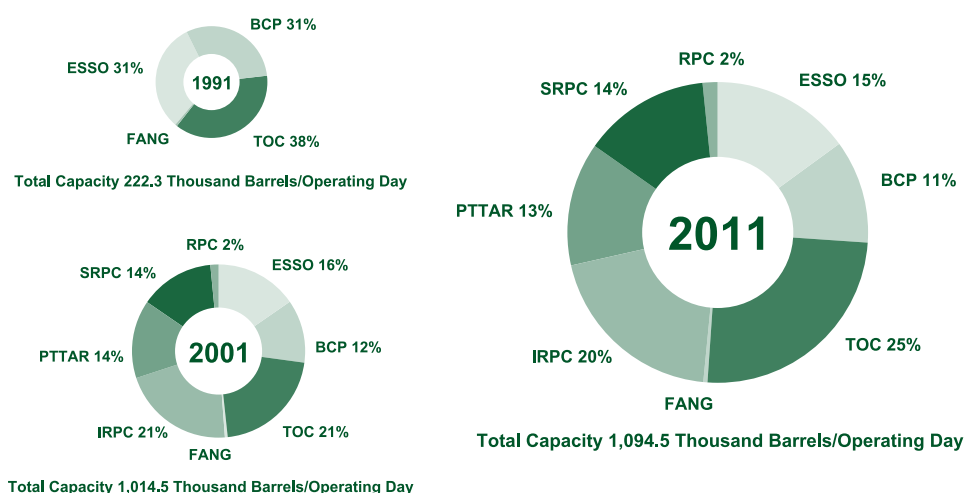
Crude Oil Production. The accumulated domestic oil production in 2011 totaled 139,991 barrels per day (BBL/D). Major crude oil fields in Thailand comprise Benjamas, Sirikit, Tantawan, Jasmin and Big Oil Project of Unocal (Thailand) Co., Ltd.

Crude Oil Import and Export. Most of the imports were from the Middle East, holding a share of 78%; the remainder was from the Far East, accounting for 8%, and from other sources, 14%. Concurrently, Thailand also exported crude oil to such countries as Korea, the USA and Singapore.

Oil Refining. As of 2011, there are eight oil refineries in Thailand, with a total refining capacity of 1,094,500 BBL/D, comprising:

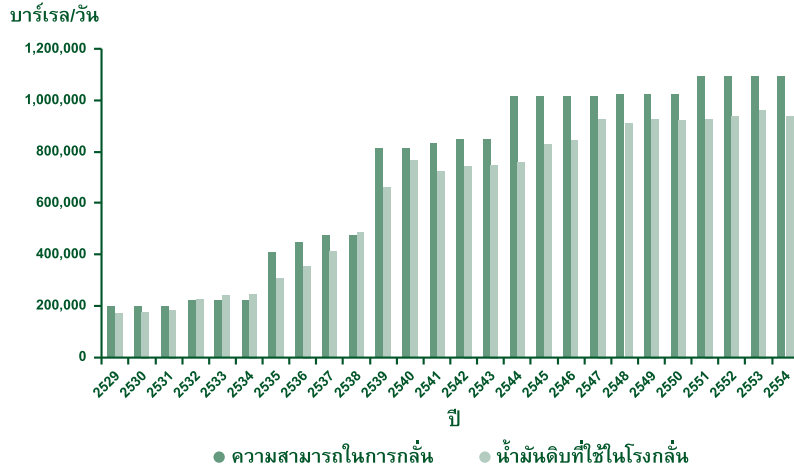
1) ESSO Thailand Co., Ltd.	2) Bangchak Petroleum Public Co., Ltd.
3) Thai Oil Public Co., Ltd.	4) PTT Aromatics and Refining Public Co., Ltd.
5) Star Petroleum Refining Co., Ltd.	6) IRPC Public Co., Ltd.
7) Rayong Purifier Public Co., Ltd., and	8) Fang Oil Refinery.

Thailand's Refining Capacity in 1991, 2001 and 2011



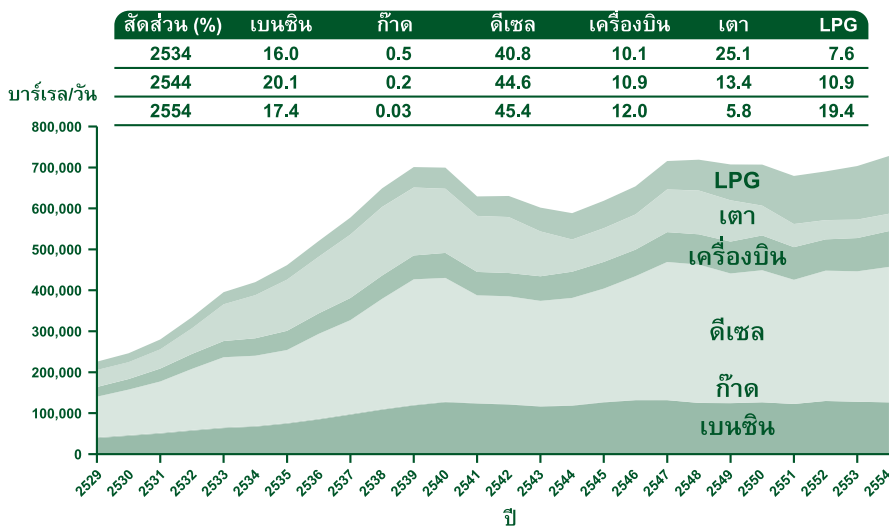
การใช้น้ำมันดิบเพื่อการกลั่นในปี 2554 อยู่ที่ระดับ 935,909 บาร์เรลต่อวัน คิดเป็นสัดส่วนร้อยละ 85 ของความสามารถในการกลั่นของประเทศ

การใช้กำลังการกลั่นของไทย



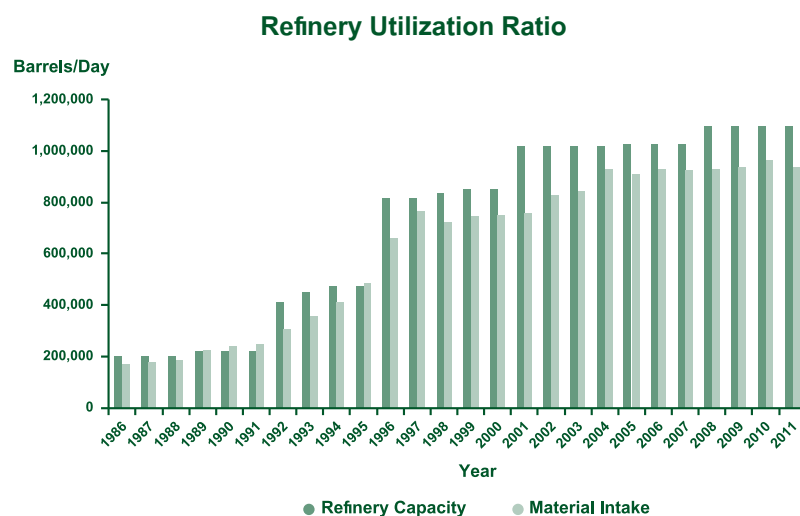
การผลิตและการใช้น้ำมันสำเร็จรูป ในปี 2554 การผลิตน้ำมันสำเร็จรูปอยู่ที่ระดับ 955 พันบาร์เรลต่อวัน ในขณะที่การใช้น้ำมันสำเร็จรูปอยู่ที่ระดับ 728 พันบาร์เรลต่อวัน โดยการใช้น้ำมันดีเซลมีสัดส่วนมากที่สุดคือร้อยละ 45 รองลงมาเป็นก๊าซปิโตรเลียมเหลว (LPG) ร้อยละ 19 น้ำมันเบนซิน ร้อยละ 18 น้ำมันเครื่องบิน ร้อยละ 12 น้ำมันเตา ร้อยละ 6 และน้ำมันก๊าด ร้อยละ 0.03

การใช้น้ำมันสำเร็จรูป

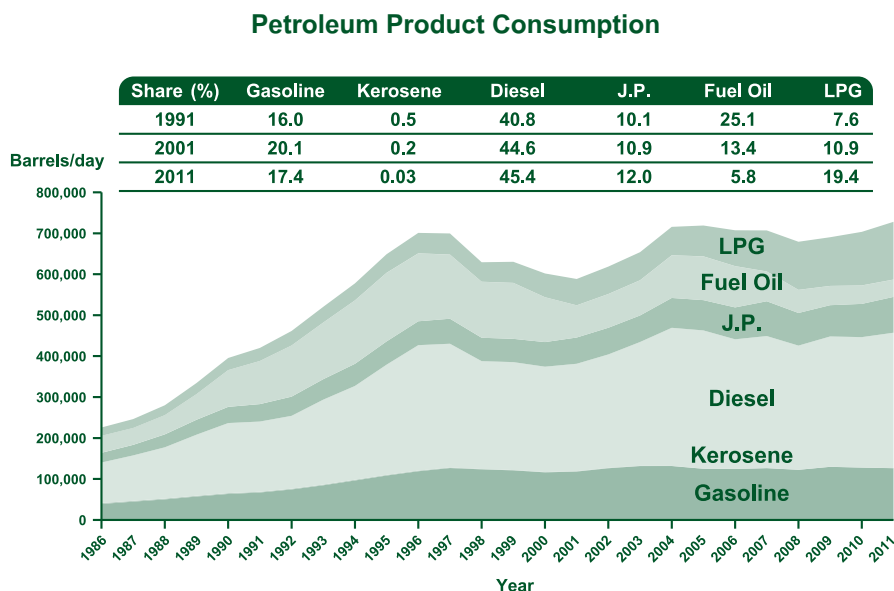


การนำเข้าและส่งออกน้ำมันสำเร็จรูป ในปี 2554 มีการส่งออก 181 พันบาร์เรลต่อวัน โดยน้ำมันดีเซลมีสัดส่วนการส่งออกมากที่สุด ร้อยละ 45 ของการส่งออกน้ำมันสำเร็จรูปทั้งหมด ในขณะที่การนำเข้าน้ำมันสำเร็จรูปมีปริมาณเพียง 53 พันบาร์เรลต่อวัน ทั้งนี้ ปริมาณ LPG มีสัดส่วนการนำเข้ามากที่สุดถึงร้อยละ 86 ของการนำเข้าน้ำมันสำเร็จรูปทั้งหมด

The refinery intake of crude oil in 2011 was at a volume of 935,909 BBL/D, accounting for 85% of the total domestic refining capacity.



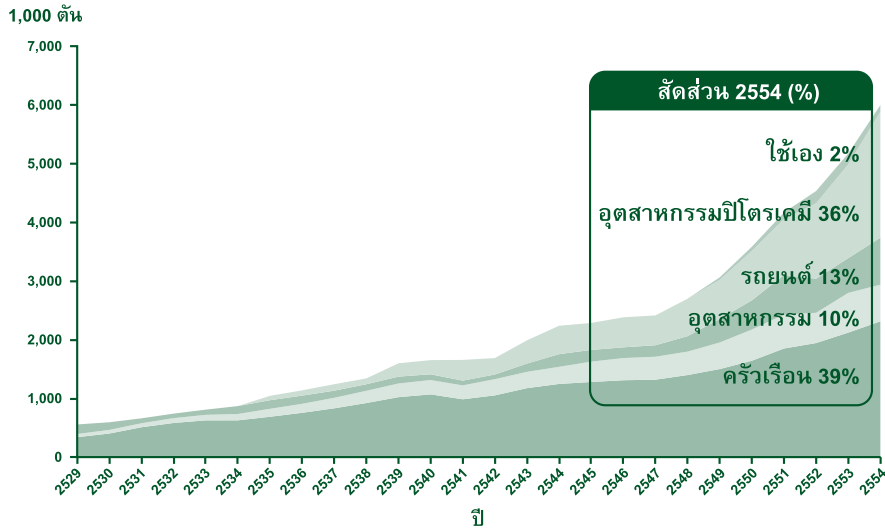
Production and Consumption of Petroleum Products. In 2011, the production of petroleum products was at a volume of 955 KBD while the consumption was at 728 KBD. Diesel consumption accounted for the largest share of 45%; others comprised liquefied petroleum gas (LPG), 19%; gasoline, 18%; jet petroleum, 12%; fuel oil, 6%; and kerosene, 0.03%.



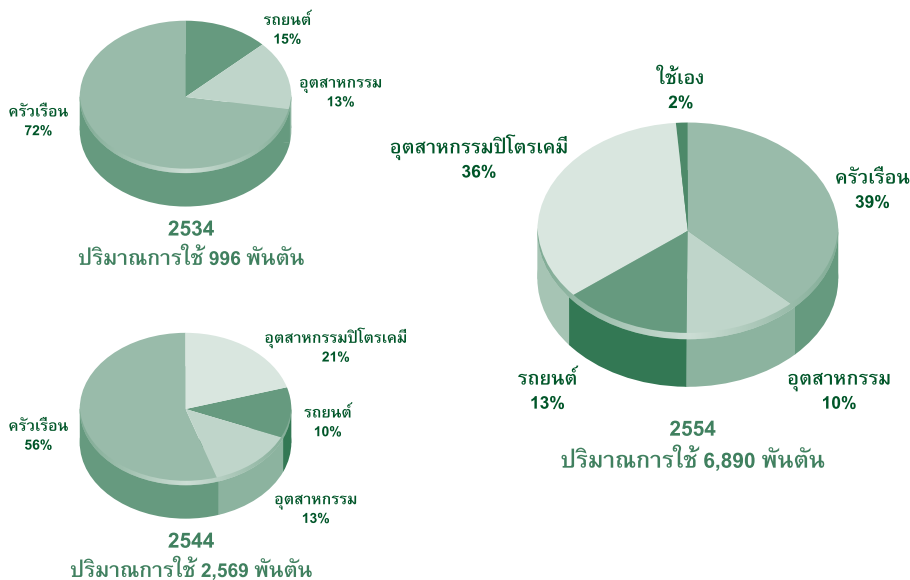
Import and Export of Petroleum Products. In 2011, the export volume of petroleum products was 181 KBD, with diesel accounting for the largest share, i.e. 45%, of the total export; while the petroleum product import volume was only 53 KBD, with LPG accounting for the largest share of 86% of the total import.

การใช้ LPG โพรเพน และบิวเทน ในปี 2554 สาขาครัวเรือนมีสัดส่วนการใช้ LPG โพรเพน และบิวเทน อยู่ที่ร้อยละ 39 ซึ่งแนวโน้มการใช้ในสาขานี้มีสัดส่วนลดลงเมื่อเทียบกับอดีตที่ผ่านมา ในขณะที่การใช้สาขาอุตสาหกรรมปิโตรเคมีและสาขาขนส่งเพิ่มขึ้นอยู่ที่ร้อยละ 36 และร้อยละ 13 ตามลำดับ สัดส่วนที่เหลือเป็นการใช้ในสาขาอุตสาหกรรมและใช้เองอยู่ที่ร้อยละ 10 และร้อยละ 2 ตามลำดับ

การใช้ LPG โพรเพน และบิวเทน รายสาขา



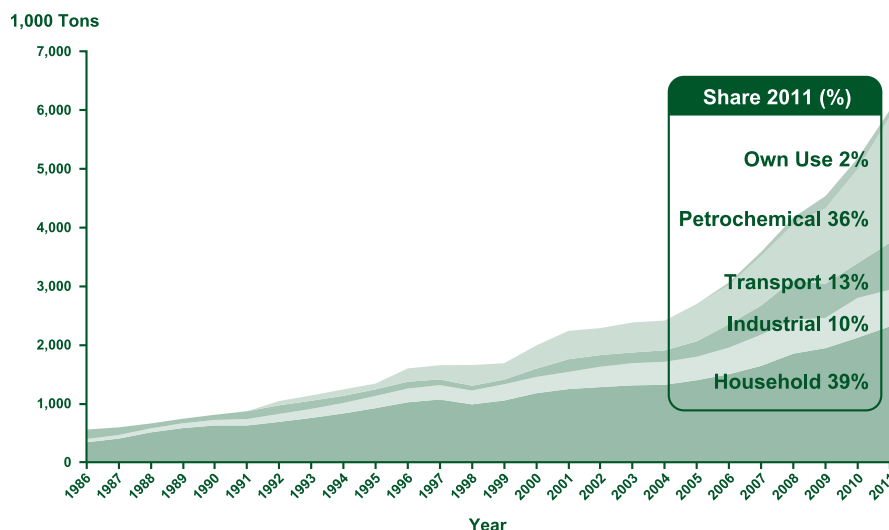
การใช้ LPG โพรเพน และบิวเทน รายสาขาในปี 2534 ปี 2544 และปี 2554



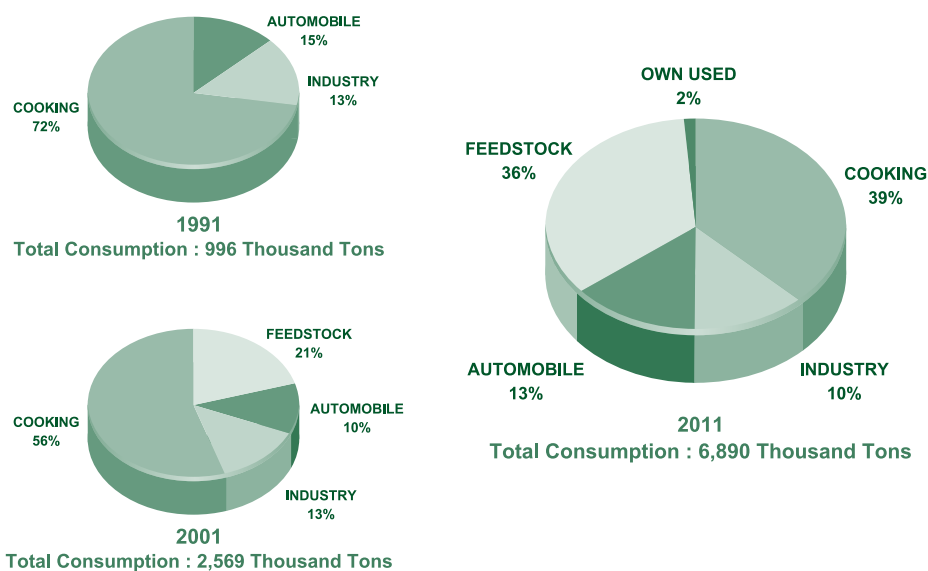
การนำเข้าและส่งออก LPG ในปี 2554 มีการนำเข้าในรูปแบบของ LPG โพรเพน และบิวเทน อยู่ที่ระดับ 1,437 พันตัน ลดลงจากช่วงเดียวกันของปีก่อนร้อยละ 9.7 และมีการส่งออกอยู่ที่ระดับ 16 พันตัน ลดลงจากช่วงเดียวกันของปีก่อนร้อยละ 34.6 โดยส่วนใหญ่ส่งออกไปประเทศเพื่อนบ้าน ได้แก่ กัมพูชา มาเลเซีย และลาว ตามลำดับ

LPG, Propane and Butane Consumption. In 2011, the share of LPG, propane and butane consumption in the household sector was 39%, decreasing from the consumption share of this sector in the previous year, while that in the petrochemical and transport sectors increased to 36% and 13% respectively. The industrial sector and own (on-site) use accounted for the remaining share of 10% and 2% respectively.

LPG, Propane and Butane Consumption by Sector



LPG, Propane and Butane Consumption by Sector in 1991, 2001, 2011



LPG Import and Export. In 2011, the LPG import was only under propane and butane, accounted for 1,437 thousand tons or decreasing 9.7%, compared to the previous year. The export of it was at 16 thousand tons, a decrease of 34.6% year on year. Most of LPG exports went to Thailand's neighboring countries i.e. Cambodia, Malaysia and Laos.

Table 2.1.1-1Y
Production of Crude Oil

Unit : Barrels/Day

Year	Bung Ya & Muang	Chaba	Fang	Bualuang	Songkhla	Neung & Sawng	Unocal	Sirikit	Wichian Buri	Nasanun	Tan Tawan	Jusmin	Nang- Nual	Banyen	Benjamas	Others	Total
1987								16,733									16,733
1988								17,892					1,289				19,181
1989			1,153					20,197									21,351
1990			1,209					22,759									23,968
1991	111		1,233			398		22,762									24,503
1992	188		1,336			1,293		23,500									26,317
1993	158		1,285			1,186		22,065					246				24,940
1994	229		1,454			957		22,245					1,669				26,553
1995	196		1,409			1,285		17,631	143				3,077			21	23,763
1996	434		1,290			956		18,701	273				4,696			69	26,419
1997	518		1,324			812		17,672	198		5,374		1,485			81	27,463
1998	509		1,030			638		20,658	221		6,213					149	29,420
1999	570		996			546		23,384	140		5,056		4,696		3,223	91	34,006
2000	635		878			548		23,483	200		7,454		1,485		24,354	385	57,937
2001	902		658			597	1,149	21,212	180		7,938				28,906	372	61,914
2002	803		661			463	11,634	20,591	159		5,649				35,132	476	75,567
2003	733		847			436	20,231	19,127	223		5,193				49,275	258	96,322
2004	856		796			390	22,021	17,050	172		4,503				39,378	350	85,516
2005	1,098		800			354	29,794	17,129	150		6,650	5,768	1,912		45,819	4,415	113,890
2006	1,050		970			370	38,679	18,775	96		8,296	8,649	684		50,004	1,377	128,950
2007	1,460		971			344	39,215	20,511	309	1,202	7,703	19,267	504		42,132	945	134,563
2008	1,674		1,178			327	35,559	20,942	174	8,222	6,505	18,292		1,445	44,960	4,657	143,935
2009	1,539	3,862	1,244	8,916	5,063	290	33,766	21,324	121	8,346	6,196	13,637		6,596	29,067	14,074	154,041
2010	1,486	3,739	1,154	8,327	7,926	261	36,998	21,808	105	6,689	3,860	13,868		3,891	26,665	16,397	153,174
2011	1,163	2,167	1,045	7,641	9,787	237	30,643	22,974	118	2,474	5,428	12,762		4,620	27,077	11,855	139,991

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2Y
Production of Condensate

Unit : Barrels/Day

Year	Pailin	Erawan	Bannpot	Satun	South Satun	Platong & Kapong	Phuorm	Funan & Jakrawan	Bongkot	Gomin	Arthit	Trat	Others	Total
1987		6,362	424	4,764		3,635								15,185
1988		6,257	2,296	5,436		3,930								17,919
1989		7,325	1,863	5,409		3,199							646	18,441
1990		7,885	1,172	5,506	541	1,526							2,640	19,270
1991		9,691	599	6,152	1,765	1,667							1,881	21,753
1992		8,476	362	6,990	1,436	1,589		6,571					1,106	26,530
1993		9,271	389	6,465	1,485	1,729		7,296	1,557				586	28,778
1994		8,978	565	7,245	403	1,988		6,381	3,410				1,644	30,615
1995		9,152	176	6,922	703	2,718		5,480	4,150	261			402	29,964
1996		7,999	385	6,944	1,085	2,879		4,843	7,803	3,349			353	35,639
1997		9,529	865	7,261	1,689	5,816		6,748	10,103	2,499			288	44,800
1998		9,601	566	7,420	1,881	5,436		7,438	10,830	1,026			2,142	46,341
1999	3,261	9,936	553	6,409	2,036	3,496		6,610	13,581	789		824	2,136	49,631
2000	9,207	8,569	359	4,607	1,571	3,302		6,307	13,393	1,410		2,198	1,297	52,220
2001	8,272	8,928	233	3,823	1,288	1,965		6,926	16,208	607		2,589	1,008	51,847
2002	11,330	9,029	393	3,353	850	690		8,260	16,111	647		2,306	756	53,724
2003	16,975	12,070	237	3,226	864	111		5,568	15,729	4,798		2,473	612	62,663
2004	19,003	11,726	1,358	3,917	482			6,683	17,665	4,505		2,047	818	68,204
2005	21,620	11,599	1,779	3,586	566			6,247	17,839	4,022		1,984	245	69,487
2006	25,269	11,101	3,414	2,497	692		32	8,302	17,685	1,219		4,928	111	75,250
2007	25,276	11,291	3,829	3,931	459		464	11,746	17,869	550		3,111	319	78,845
2008	23,268	10,594	2,645	4,136	355	302	458	10,240	18,505	800	12,610	969	11	84,893
2009	22,106	12,496	1,759	2,937	380		409	6,591	18,300	753	17,520	647	2	83,900
2010	22,435	11,180	3,789	2,730	170		428	6,733	19,568	2,519	17,508	1,567		88,627
2011	18,048	10,531	2,886	2,625	132	1,536	380	5,508	20,556	4,372	15,811	1,208	543	84,136

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-1Y
Import of Crude Oil Classified by Sources

Unit : Million Litres

Year	Middle East	Far East	Others	Total
1987	4,467	4,582	317	9,367
1988	5,690	3,020	304	9,014
1989	8,264	3,358	228	11,849
1990	7,726	4,357	104	12,187
1991	7,375	5,220	214	12,810
1992	9,468	5,789	891	16,148
1993	10,822	7,435	537	18,794
1994	13,190	8,035	415	21,639
1995	16,605	8,951	681	26,237
1996	26,534	9,669	642	36,844
1997	32,597	8,226	1,468	42,291
1998	33,307	5,717	421	39,446
1999	32,281	6,309	1,969	40,558
2000	28,980	8,086	2,104	39,170
2001	32,011	7,320	2,011	41,342
2002	31,453	7,957	2,867	42,278
2003	35,482	8,153	1,390	45,025
2004	40,966	7,278	2,378	50,621
2005	38,233	6,409	3,391	48,033
2006	38,913	5,724	3,489	48,125
2007	36,747	4,222	5,703	46,671
2008	39,145	3,344	4,736	47,225
2009	36,601	6,025	3,995	46,620
2010	34,553	4,250	8,563	47,365
2011	35,725	3,716	6,648	46,090

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-2Y
Quantity and Value of Petroleum Products Import

Description	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1. Crude Oil												
-Value (M. Baht)	26,833.1	21,413.9	32,592.6	42,792.3	39,854.6	48,644.4	51,024.4	55,362.6	72,121.9	121,936.8	166,545.2	137,100.4
-Quantity (M. Litres)	9,366.5	9,014.1	11,849.2	12,186.7	12,809.8	16,147.9	18,794.0	21,639.1	26,236.8	36,844.4	42,290.8	39,445.6
-Quantity (BBL/D)	161,404.0	154,906.0	204,186.0	210,001.0	220,739.0	277,502.0	323,859.0	372,886.0	452,115.0	633,170.0	728,758.0	679,729.0
-Value (M.US\$)	1,040.3	844.5	1,263.3	1,673.3	1,560.0	1,910.8	2,013.1	2,199.0	2,889.9	4,798.3	5,312.2	3,277.2
-Price (\$/BBL)	17.7	14.9	17.0	21.8	19.4	18.8	17.0	16.2	17.5	20.7	20.0	13.2
2. Petroleum Products												
-Value (M. Baht)	13,447.0	15,638.8	22,329.4	38,170.7	37,910.3	32,295.0	35,032.1	29,449.4	33,148.4	32,620.4	12,960.8	5,189.6
-Quantity (M. Litres)	3,984.7	5,239.7	6,360.3	9,063.2	9,400.9	9,217.3	10,408.5	9,826.5	10,483.0	8,445.9	3,083.5	1,406.9
-Quantity (BBL/D)	68,665.0	90,043.0	109,600.0	156,178.0	161,998.0	158,399.0	179,359.0	169,330.0	180,644.0	145,143.0	53,134.0	24,243.0
-Value (M.US\$)	521.3	617.6	866.9	1,489.9	1,484.9	1,267.2	1,380.6	1,168.8	1,328.8	1,285.9	451.6	127.7
-Price (\$/BBL)	20.8	18.7	21.7	26.1	25.1	21.9	21.1	18.9	20.2	24.2	23.3	14.4
3. Others												
-Value (M. Baht)	38.1	568.1	790.9	892.9	1,129.1	1,162.5	2,221.8	3,389.4	4,054.5	4,480.4	7,811.2	5,348.3
-Quantity (M. Litres)	65.3	87.2	87.6	108.8	127.2	161.4	357.5	651.4	733.1	747.0	1,382.6	921.1
-Quantity (BBL/D)	1,126.0	1,499.0	1,510.0	1,874.0	2,192.0	2,773.0	6,160.0	11,225.0	12,633.0	12,838.0	23,825.0	15,873.0
-Value (M.US\$)	1.5	22.3	30.7	34.8	44.2	45.7	87.6	134.6	162.4	176.5	258.1	129.4
-Price (\$/BBL)	3.6	40.7	55.8	50.9	55.3	45.0	39.0	32.9	35.2	37.6	29.7	22.3
4. Total Petroleum												
-Value (M. Baht)	40,318.2	37,620.8	55,712.8	81,855.9	78,894.0	82,102.0	88,278.3	88,201.4	109,324.9	159,037.6	187,317.2	147,638.4
-Quantity (M. Litres)	13,416.6	14,340.9	18,297.0	21,358.6	22,338.0	25,526.6	29,559.9	32,116.9	37,452.9	46,037.3	46,756.8	41,773.6
-Quantity (BBL/D)	231,195.0	246,448.0	315,296.0	368,054.0	384,929.0	438,674.0	509,379.0	553,441.0	645,391.0	791,151.0	805,716.0	719,845.0
-Value (M.US\$)	1,563.1	1,484.4	2,160.9	3,198.0	3,089.1	3,223.6	3,481.3	3,502.4	4,381.1	6,280.7	6,021.9	3,534.4
-Price (\$/BBL)	18.5	16.5	18.8	23.8	22.0	20.1	18.7	17.3	18.6	21.6	20.5	13.5

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease

Table 2.1.2-2Y (Cont.)
Quantity and Value of Petroleum Products Import

Description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1. Crude Oil													
-Value (M. Baht)	169,633.0	285,862.0	284,373.3	286,952.7	346,056.8	486,627.4	644,933.3	753,782.9	715,789.3	1,002,667.3	623,023.9	751,496.0	977,467.7
-Quantity (M. Litres)	40,557.9	39,169.9	41,341.6	42,277.7	45,024.8	50,621.2	48,032.7	48,125.4	46,671.3	47,225.0	46,620.2	47,365.3	46,094.5
-Quantity (BBL/D)	698,896.0	673,134.0	712,401.0	728,532.0	775,870.0	872,308.0	827,702.0	829,300.0	804,242.0	811,561.0	803,362.0	816,201.0	794,304.0
-Value (M.US\$)	4,442.9	7,042.7	6,365.4	6,663.7	8,309.6	12,037.8	15,932.4	19,824.4	20,706.9	30,131.3	18,150.4	23,676.9	31,946.7
-Price (\$/BBL)	17.4	28.6	24.5	25.1	29.3	37.8	52.7	65.5	70.5	101.4	61.9	79.5	110.2
2. Petroleum Products													
-Value (M. Baht)	9,727.8	9,160.4	3,910.6	7,391.2	8,909.1	15,774.5	29,362.6	23,513.8	15,409.3	21,353.8	21,749.7	41,415.1	49,664.6
-Quantity (M. Litres)	2,069.5	1,300.2	469.5	981.5	998.0	1,715.0	2,164.7	1,503.7	932.2	1,229.0	1,887.8	3,112.8	3,093.1
-Quantity (BBL/D)	35,661.0	22,344.0	8,090.0	16,913.0	17,197.0	29,553.0	37,303.0	25,912.0	16,063.0	21,120.0	32,530.0	53,640.0	53,300.0
-Value (M.US\$)	254.7	237.2	87.4	171.0	214.0	394.6	728.6	615.0	445.4	640.4	635.4	1,308.8	1,623.8
-Price (\$/BBL)	19.6	29.0	29.6	27.7	34.1	36.6	53.5	65.0	76.0	82.8	53.5	66.9	83.5
3. Others													
-Value (M. Baht)	5,394.1	29,867.2	26,757.0	20,462.4	24,259.1	28,902.3	30,462.2	38,867.3	34,841.6	19,708.8	7,366.4	25,419.6	44,604.9
-Quantity (M. Litres)	1,148.4	4,141.5	3,924.8	3,011.1	2,999.5	2,837.2	2,417.5	2,630.6	2,208.8	1,039.3	699.7	1,768.9	2,429.3
-Quantity (BBL/D)	19,789.0	71,172.0	67,632.0	51,888.0	51,687.0	48,890.0	41,659.0	45,330.0	38,061.0	17,860.0	12,058.0	30,483.0	41,862.0
-Value (M.US\$)	141.4	747.1	601.9	475.4	580.8	716.0	755.0	1,019.7	1,008.0	598.4	212.0	800.3	1,454.6
-Price (\$/BBL)	19.6	28.7	24.4	25.1	30.8	40.1	49.7	61.6	72.6	91.5	48.2	71.9	95.2
4. Total Petroleum													
-Value (M. Baht)	184,754.9	324,889.5	315,040.9	314,806.3	379,225.0	531,304.2	704,758.1	816,164.0	766,040.2	1,043,729.9	652,140.0	818,330.6	1,071,737.2
-Quantity (M. Litres)	43,775.7	44,611.6	45,735.8	46,270.3	49,022.3	55,173.4	52,614.9	52,259.7	49,812.2	49,493.3	49,207.6	52,247.0	51,616.9
-Quantity (BBL/D)	754,346.0	766,649.0	788,123.0	797,333.0	844,755.0	950,751.0	906,663.0	900,542.0	858,367.0	850,541.0	847,949.0	900,324.0	889,466.0
-Value (M.US\$)	4,839.0	8,027.0	7,054.7	7,310.1	9,104.4	13,148.4	17,416.0	21,459.2	22,160.3	31,370.0	18,997.9	25,786.0	35,025.2
-Price (\$/BBL)	17.6	28.6	24.5	25.1	29.5	37.9	52.6	65.3	70.7	100.8	61.4	78.5	107.9

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease

Table 2.1.3-1Y
Quantity and Value of Petroleum Products Export

Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Crude Oil											
-Value (M.Baht)											
-Quantity (M.Litres)											
-Quantity (BBL/D)											
-Value (M.US\$)											
-Price (\$/BBL)											
2. Petroleum Products											
-Value (M.Baht)											
-Quantity (M.Litres)	9.47	23.75	34.56	194.51	472.50	412.75	810.40	4,399.43	6,350.68	5,851.66	7,100.70
-Quantity (BBL/D)	163.00	409.00	596.00	3,343.00	8,142.00	7,112.00	13,965.00	75,604.00	109,435.00	100,836.00	122,360.00
-Value (M.US\$)											
-Price (\$/BBL)											
3. Others											
-Value (M.Baht)											
-Quantity (M.Litres)			9.04	399.66	480.85	308.65	456.87	415.90	451.32	410.85	718.39
-Quantity (BBL/D)			156.00	6,868.00	8,286.00	5,319.00	7,873.00	7,147.00	7,777.00	7,080.00	12,379.00
-Value (M.US\$)											
-Price (\$/BBL)											
4. Total Petroleum											
-Value (M.Baht)											
-Quantity (M.Litres)	9.47	23.75	43.60	594.16	953.35	721.39	1,267.27	4,955.29	6,802.00	6,262.51	7,839.15
-Quantity (BBL/D)	163.00	409.00	751.00	10,211.00	16,428.00	12,431.00	21,838.00	85,157.00	117,212.00	107,916.00	135,085.00
-Value (M.US\$)											
-Price (\$/BBL)											

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.3-1Y (Cont.)
Quantity and Value of Petroleum Products Export

Description	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1. Crude Oil												
-Value (M.Baht)		14,448.50	18,075.02	29,355.84	33,883.08	52,858.33	56,834.78	45,811.90	56,575.07	27,409.67	26,107.31	39,914.95
-Quantity (M.Litres)	1,749.75	2,216.18	2,688.87	3,876.48	3,287.85	3,805.71	3,797.65	3,020.28	2,668.79	2,383.15	1,738.44	1,933.67
-Quantity (BBL/D)	30,069.00	38,189.00	46,335.00	66,800.00	56,502.00	65,580.00	65,441.00	52,046.00	45,863.00	41,067.00	29,957.00	33,321.00
-Value (M.US\$)		324.22	420.60	703.76	836.35	1,300.09	1,494.26	1,324.73	1,703.53	797.72	821.84	1,303.89
-Price (\$/BBL)		23.26	24.87	28.86	40.44	54.31	62.56	69.73	101.49	53.22	75.16	107.21
2. Petroleum Products												
-Value (M.Baht)					70,954.44	99,398.18	138,062.55	127,171.65	225,446.99	174,515.78	198,590.18	231,615.01
-Quantity (M.Litres)	6,393.56	6,916.20	7,132.47	6,129.89	7,004.38	7,092.74	8,399.38	7,746.61	10,403.64	11,681.60	11,957.35	10,531.90
-Quantity (BBL/D)	109,873.00	119,180.00	122,907.00	105,631.00	120,370.00	122,222.00	144,739.00	133,490.00	178,786.00	201,298.00	206,050.00	181,486.00
-Value (M.US\$)					1,753.33	2,440.45	3,637.40	3,683.57	6,765.35	5,089.58	6,284.87	7,577.93
-Price (\$/BBL)					39.80	54.70	68.85	75.60	103.39	69.27	83.57	114.40
3. Others												
-Value (M.Baht)					15,504.54	12,135.82	22,863.33	31,904.92	34,936.97	30,770.25	33,273.94	47,534.09
-Quantity (M.Litres)	1,026.48	1,009.63	963.81	1,342.06	1,473.34	1,019.77	1,527.38	2,128.50	2,268.05	2,239.99	2,014.59	2,432.90
-Quantity (BBL/D)	17,640.00	17,398.00	16,608.00	23,127.00	25,319.00	17,573.00	26,320.00	36,678.00	38,976.00	38,600.00	34,715.00	41,924.00
-Value (M.US\$)					384.48	299.71	602.41	923.28	1,042.18	899.58	1,050.85	1,549.88
-Price (\$/BBL)					41.49	46.73	62.71	68.97	73.06	63.85	82.93	101.28
4. Total Petroleum												
-Value (M.Baht)		14,448.50	18,075.02	29,355.84	120,342.06	164,392.34	217,760.66	204,888.47	316,959.02	232,695.70	257,971.43	319,064.05
-Quantity (M.Litres)	9,169.79	10,142.01	10,785.15	11,348.43	11,765.57	11,918.21	13,724.41	12,895.39	15,340.48	16,304.74	15,710.37	14,898.47
-Quantity (BBL/D)	157,583.00	174,768.00	185,850.00	195,557.00	202,191.00	205,375.00	236,500.00	222,214.00	263,626.00	280,964.00	270,722.00	256,731.00
-Value (M.US\$)		324.22	420.60	703.76	2,974.16	4,040.26	5,734.06	5,931.58	9,511.06	6,786.89	8,157.55	10,431.70
-Price (\$/BBL)		5.08	6.20	9.86	40.19	53.90	66.43	73.13	98.57	66.18	82.55	111.32

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1Y
Refining Capacity

Unit : Barrels/Day

Company	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Thai Oil	68,442	69,263	96,972	103,611	105,693	150,198	192,327	209,436	214,493	194,645	205,889	187,864	164,056
Bangchak	43,969	48,994	50,732	64,837	69,242	77,025	90,489	107,774	110,400	97,795	98,563	91,296	95,091
ESSO	65,991	65,929	77,716	72,354	73,691	78,409	74,903	96,810	150,404	150,675	144,951	120,497	118,480
IRPC/TPI	0	0	0	0	0	0	0	0	10,192	36,179	49,631	56,076	58,917
RRC/PTTAR	0	0	0	0	0	0	0	0	0	104,224	132,081	129,590	147,630
SPRC	0	0	0	0	0	0	0	0	0	75,488	136,346	130,875	150,265
RPC	0	0	0	0	0	0	0	0	0	0	0	5,611	7,518
Total	178,401	184,186	225,420	240,803	248,626	305,631	357,719	414,020	485,490	659,006	767,461	721,808	741,957

Company	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Thai Oil	169,385	192,555	204,849	225,616	223,125	226,465	229,326	208,907	272,648	268,177	255,423	275,498
Bangchak	85,597	73,819	72,709	74,655	90,113	62,738	57,070	65,827	73,540	85,098	88,575	89,918
ESSO	134,558	135,659	126,901	136,917	129,869	152,965	150,485	148,266	141,046	137,506	124,933	110,206
IRPC/TPI	65,953	66,769	129,884	127,116	178,104	178,124	169,417	189,299	171,788	140,469	173,097	157,863
RRC/PTTAR	142,983	138,253	142,159	135,347	146,469	138,709	153,689	147,782	127,455	142,634	146,312	134,267
SPRC	142,948	138,253	142,159	135,347	147,073	138,709	153,689	147,702	127,455	152,514	162,738	156,640
RPC	8,205	10,706	9,028	11,093	11,097	11,487	11,822	12,976	11,498	10,234	10,686	11,515
Total	749,629	756,014	827,688	846,091	925,850	909,198	925,498	920,759	925,432	936,633	961,764	935,909

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-2Y
Material Intake by Refinery

Unit : Barrels/Day

Year	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR / RRC	SPRC	RPC	Total
1987	68,442	43,969	65,991					178,401
1988	69,263	48,994	65,929					184,186
1989	96,972	50,732	77,716					225,420
1990	103,611	64,837	72,354					240,803
1991	105,693	69,242	73,691					248,626
1992	150,198	77,025	78,409					305,631
1993	192,327	90,489	74,903					357,719
1994	209,436	107,774	96,810					414,020
1995	214,493	110,400	150,404	10,192				485,490
1996	194,645	97,795	150,675	36,179	104,224	75,488		659,006
1997	205,889	98,563	144,951	49,631	132,081	136,346		767,461
1998	187,864	91,296	120,497	56,076	129,590	130,875	5,611	721,808
1999	164,056	95,091	118,480	58,917	147,630	150,265	7,518	741,957
2000	169,385	85,597	134,558	65,953	142,983	142,948	8,205	749,629
2001	192,555	73,819	135,659	66,769	138,253	138,253	10,706	756,014
2002	204,849	72,709	126,901	129,884	142,159	142,159	9,028	827,688
2003	225,616	74,655	136,917	127,116	135,347	135,347	11,093	846,091
2004	223,125	90,113	129,869	178,104	146,469	147,073	11,097	925,850
2005	226,465	62,738	152,965	178,124	138,709	138,709	11,487	909,198
2006	229,326	57,070	150,485	169,417	153,689	153,689	11,822	925,498
2007	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759
2008	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432
2009	268,177	85,098	137,506	140,469	142,634	152,514	10,234	936,633
2010	255,423	88,575	124,933	173,097	146,312	162,738	10,686	961,764
2011	275,498	89,918	110,206	157,863	134,267	156,640	11,515	935,909

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1Y
Production of Petroleum Products

Unit : Million Litres

Year	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total		HSD	LSD				
1987	2,425.2	1,418.3	1,006.9	135.8	3,735.9	3,642.1	93.8	1,140.8	2,202.3	1,026.4	10,666.4
1988	2,533.5	1,443.9	1,089.6	120.4	3,459.7	3,366.6	93.1	1,307.1	2,575.4	1,120.8	11,116.8
1989	2,757.1	1,601.3	1,155.8	131.0	4,202.6	4,075.0	127.6	1,662.6	3,403.4	882.5	13,039.2
1990	3,044.9	1,777.2	1,267.7	140.1	4,427.0	4,305.4	121.6	1,778.1	3,540.1	1,347.1	14,277.2
1991	3,106.1	1,919.5	1,186.6	100.2	4,794.6	4,655.4	139.2	1,856.0	3,587.6	1,817.3	15,261.7
1992	3,751.3	2,270.6	1,480.6	121.6	6,093.5	5,936.3	157.3	2,083.5	4,328.7	2,113.1	18,491.7
1993	4,603.2	2,442.2	2,161.0	124.6	7,273.9	7,069.9	204.0	2,321.4	4,739.5	2,304.0	21,366.6
1994	5,025.0	2,034.7	2,990.3	120.6	8,432.9	8,218.6	214.3	2,700.4	5,763.6	2,264.7	24,307.2
1995	6,181.6	2,247.4	3,934.2	113.0	10,073.7	9,866.5	207.2	3,138.3	6,000.6	2,852.4	28,359.5
1996	7,969.5	2,693.4	5,276.1	189.3	13,929.9	13,754.5	175.4	3,572.0	8,354.1	3,493.0	37,507.7
1997	9,419.5	2,879.6	6,539.9	122.7	17,272.5	17,128.3	144.3	3,810.8	8,701.9	4,231.1	43,558.6
1998	8,722.1	2,798.9	5,923.2	114.9	16,437.3	16,326.4	111.0	3,567.4	7,846.2	4,064.0	40,751.9
1999	8,631.5	2,762.7	5,868.8	346.7	15,948.2	15,817.1	131.1	4,119.0	7,828.8	4,587.3	41,461.4
2000	8,086.5	3,792.3	4,294.2	491.2	16,105.7	15,991.3	114.4	4,347.8	6,990.7	5,168.9	41,190.8
2001	8,327.2	4,131.3	4,195.9	587.1	16,666.8	16,558.7	108.1	4,237.2	6,465.9	5,893.2	42,177.4
2002	8,250.8	4,305.3	3,945.5	549.6	17,520.0	17,418.6	101.4	4,669.9	5,979.6	5,893.6	42,863.4
2003	8,639.7	4,662.2	3,977.4	697.3	19,176.8	19,072.2	104.6	4,257.3	6,080.9	6,180.2	45,032.1
2004	8,957.2	4,846.3	4,110.9	1,119.5	21,243.3	21,127.1	116.1	4,630.8	6,721.5	6,601.2	49,273.5
2005	9,232.7	5,076.1	4,156.6	1,016.7	20,797.2	20,713.0	84.2	4,836.6	6,159.2	7,192.8	49,235.0
2006	9,089.9	5,034.7	4,055.2	1,041.1	21,149.4	21,095.3	54.0	5,602.9	6,308.1	7,230.0	50,421.2
2007	8,702.9	5,068.1	3,634.8	123.4	21,994.9	21,963.5	31.4	5,322.6	6,452.0	7,752.2	50,348.0
2008	8,449.0	4,900.1	3,548.9	194.9	20,769.0	20,765.4	3.7	6,001.9	6,873.3	8,560.3	50,848.3
2009	8,852.1	5,190.3	3,661.8	92.9	22,489.0	22,489.0		5,975.0	6,884.2	9,146.7	53,439.8
2010	8,763.9	5,305.0	3,458.9	466.7	23,304.8	23,304.8		6,196.1	5,999.8	10,521.8	55,253.0
2011	8,354.6	5,699.7	2,654.9	151.8	23,098.6	23,098.2	0.4	6,292.7	5,815.8	11,696.5	55,410.0

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2Y
Production of Petroleum Products

Unit : Barrels/Day

Year	Gasoline			Kerosene		Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD						
1987	41,791.2	24,440.2	17,350.9	2,340.1	64,377.2	62,760.9	1,616.3	19,658.3	37,950.1	17,686.9	183,805.0	
1988	43,538.1	24,813.3	18,724.7	2,069.0	59,454.8	57,854.9	1,599.9	22,462.4	44,258.2	19,260.9	191,043.6	
1989	47,510.5	27,593.7	19,916.8	2,257.4	72,419.4	70,220.6	2,198.8	28,650.0	58,647.6	15,207.2	224,693.8	
1990	52,469.9	30,624.8	21,845.0	2,414.2	76,286.3	74,190.9	2,095.4	30,640.3	61,003.2	23,213.3	246,026.7	
1991	53,524.5	33,076.9	20,447.5	1,726.6	82,620.8	80,222.1	2,398.7	31,982.7	61,821.7	31,315.8	262,991.7	
1992	64,466.0	39,020.2	25,444.0	2,089.6	104,716.6	102,015.2	2,703.1	35,804.9	74,388.6	36,313.5	317,780.1	
1993	79,322.6	42,084.1	37,238.4	2,147.1	125,344.3	121,828.9	3,515.3	40,002.5	81,671.3	39,702.6	368,190.8	
1994	86,591.1	35,062.0	51,529.0	2,078.1	145,316.2	141,623.4	3,692.8	46,533.4	99,318.7	39,025.4	418,863.6	
1995	106,521.7	38,727.3	67,794.3	1,947.2	173,590.6	170,020.1	3,570.4	54,079.3	103,402.7	49,152.7	488,694.3	
1996	136,955.7	46,286.0	90,669.6	3,253.1	239,385.0	236,370.8	3,014.2	61,384.7	143,565.0	60,027.1	644,569.9	
1997	162,317.4	49,621.4	112,695.9	2,114.3	297,640.8	295,155.9	2,486.5	65,667.9	149,951.7	72,910.5	750,605.3	
1998	150,299.7	48,230.8	102,068.9	1,979.9	283,248.6	281,337.5	1,912.7	61,473.6	135,206.2	70,031.1	702,241.0	
1999	148,738.5	47,607.0	101,131.5	5,974.3	274,820.4	272,561.2	2,259.1	70,978.8	134,906.3	79,048.6	714,466.5	
2000	138,966.3	65,170.6	73,795.7	8,441.2	276,776.1	274,810.2	1,965.9	74,716.8	120,135.0	88,827.4	707,863.6	
2001	143,494.8	71,190.8	72,304.0	10,116.9	287,203.3	285,340.5	1,862.7	73,015.7	111,420.8	101,552.0	726,805.0	
2002	142,178.3	74,189.2	67,989.1	9,470.7	301,905.7	300,158.4	1,747.3	80,472.0	103,040.8	101,558.8	738,625.0	
2003	148,879.8	80,339.3	68,538.8	12,015.9	330,455.8	328,653.3	1,802.4	73,362.0	104,786.4	106,497.6	775,997.2	
2004	153,929.3	83,283.5	70,645.7	19,238.5	365,065.7	363,068.8	1,995.1	79,580.2	115,508.8	113,441.5	846,764.4	
2005	159,098.4	87,471.6	71,626.8	17,519.8	358,378.7	356,927.7	1,450.9	83,344.6	106,135.7	123,946.7	848,421.8	
2006	156,637.7	86,758.2	69,879.4	17,940.3	364,447.8	363,515.5	930.5	96,549.5	108,701.5	124,587.8	868,862.9	
2007	149,968.9	87,333.8	62,635.1	2,126.4	379,017.5	378,476.4	541.0	91,719.3	111,181.2	133,586.4	867,600.4	
2008	145,195.9	84,208.1	60,987.7	3,349.3	356,914.9	356,853.0	63.5	103,142.5	118,117.5	147,108.6	873,828.6	
2009	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9	387,531.9		102,961.5	118,628.9	157,616.5	920,879.0	
2010	151,020.0	91,416.1	59,603.9	8,042.2	401,589.8	401,589.8		106,771.5	103,388.9	181,312.3	952,124.9	
2011	143,967.0	98,217.6	45,749.4	2,615.8	398,036.5	398,029.6	6.8	108,436.2	100,218.2	201,554.8	954,829.9	

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1Y
Sale of Petroleum Products

Unit : Million Litres

Year	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total		HSD	LSD				
1987	2,596.7	1,483.8	1,112.9	129.0	6,428.5	6,335.5	93.0	1,490.1	2,395.7	1,258.7	14,298.6
1988	2,922.9	1,623.4	1,299.5	125.6	7,284.6	7,187.4	97.2	1,831.7	2,735.9	1,400.7	16,301.3
1989	3,321.7	1,795.8	1,525.9	119.2	8,649.7	8,520.2	129.5	2,112.3	3,634.1	1,571.5	19,408.5
1990	3,686.9	1,940.6	1,746.3	123.0	9,928.0	9,811.1	117.0	2,292.3	5,210.1	1,716.3	22,956.6
1991	3,890.4	2,005.1	1,885.3	111.3	9,950.6	9,811.1	139.5	2,467.9	6,113.7	1,844.8	24,378.7
1992	4,335.0	2,117.7	2,217.3	112.3	10,353.8	10,194.8	158.9	2,724.2	7,271.0	2,058.5	26,854.8
1993	4,911.8	2,163.9	2,747.9	107.5	12,033.3	11,833.7	199.6	2,898.6	8,026.8	2,223.9	30,201.8
1994	5,591.2	2,172.6	3,418.6	113.7	13,288.8	13,069.1	219.7	3,133.7	8,991.1	2,403.6	33,522.0
1995	6,293.3	2,206.2	4,087.1	100.9	15,619.1	15,424.1	194.9	3,294.5	9,722.4	2,628.8	37,658.9
1996	6,918.1	2,076.1	4,842.0	98.4	17,826.6	17,665.5	161.1	3,393.0	9,653.1	2,902.5	40,791.5
1997	7,355.3	1,973.0	5,382.3	85.9	17,535.2	17,387.8	147.4	3,542.7	9,094.4	2,985.4	40,598.8
1998	7,168.3	2,199.2	4,969.2	55.1	15,285.0	15,167.2	117.8	3,314.5	7,940.5	2,757.1	36,520.4
1999	7,025.6	2,340.1	4,685.4	51.7	15,294.9	15,159.5	135.4	3,297.7	7,931.1	2,983.3	36,584.3
2000	6,761.6	3,334.5	3,427.1	48.8	14,973.7	14,868.1	105.6	3,493.7	6,373.4	3,375.4	35,026.5
2001	6,857.1	3,856.0	3,001.0	56.5	15,225.9	15,121.0	104.8	3,717.4	4,563.8	3,728.4	34,148.9
2002	7,326.0	4,341.4	2,984.7	61.8	16,076.9	15,963.6	113.2	3,777.7	4,782.7	3,881.9	35,906.9
2003	7,635.1	4,550.3	3,084.8	35.8	17,550.3	17,450.8	99.5	3,761.3	4,990.6	3,975.2	37,948.2
2004	7,660.7	4,631.3	3,029.3	23.3	19,623.9	19,519.3	104.6	4,241.9	6,064.2	4,035.1	41,648.9
2005	7,248.1	4,362.1	2,886.0	21.3	19,593.8	19,516.6	77.2	4,292.7	6,204.8	4,363.9	41,724.5
2006	7,215.1	4,558.9	2,656.3	19.7	18,371.0	18,311.8	59.2	4,518.5	5,851.3	5,074.4	41,050.0
2007	7,336.8	4,711.6	2,625.2	18.2	18,709.7	18,676.9	32.8	4,931.8	4,221.5	5,812.4	41,030.4
2008	7,120.6	4,311.4	2,809.2	15.7	17,643.0	17,633.6	9.4	4,636.5	3,287.3	6,828.4	39,531.4
2009	7,524.4	4,291.6	3,232.8	17.6	18,465.3	18,465.3		4,431.5	2,730.9	6,894.3	40,063.9
2010	7,416.8	4,509.2	2,907.6	15.3	18,480.1	18,480.1		4,711.7	2,615.2	7,587.3	40,826.2
2011	7,331.1	4,936.8	2,394.3	13.0	19,192.1	19,192.1		5,076.5	2,455.9	8,178.0	42,246.7

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

*Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Unit : Barrels/Day

Year	Gasoline			Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular	Premium		Total	HSD					LSD
1987	44,746.5	25,568.9	19,177.5	2,222.9	110,776.3	109,173.7	1,602.5	25,677.5	41,282.8	21,690.0	246,395.7
1988	50,229.9	27,898.1	22,331.8	2,158.4	125,185.7	123,515.3	1,670.3	31,477.7	47,016.3	24,071.0	280,137.8
1989	57,239.7	30,945.3	26,294.4	2,054.0	149,052.1	146,820.6	2,231.5	36,399.2	62,623.0	27,080.1	334,448.6
1990	63,532.9	33,440.5	30,092.3	2,119.5	171,079.9	169,065.5	2,016.1	39,501.0	89,780.7	29,575.3	395,589.7
1991	67,039.6	34,552.0	32,487.6	1,917.9	171,469.3	169,065.5	2,403.8	42,527.0	105,351.6	31,789.7	420,095.9
1992	74,496.9	36,392.6	38,104.2	1,929.8	177,929.8	175,197.4	2,730.6	46,815.3	124,952.0	35,375.2	461,500.5
1993	84,640.4	37,288.4	47,351.9	1,852.4	207,358.6	203,919.0	3,439.5	49,948.8	138,318.3	38,322.3	520,440.4
1994	96,347.9	37,438.3	58,909.5	1,959.2	228,993.4	225,207.5	3,785.8	54,000.1	154,935.2	41,418.9	577,654.2
1995	108,446.5	38,017.3	70,429.1	1,738.7	269,149.3	265,789.0	3,358.5	56,771.0	167,537.0	45,299.6	648,940.8
1996	118,887.4	35,677.7	83,209.6	1,691.0	306,349.8	303,581.3	2,768.5	58,308.6	165,888.3	49,879.4	701,002.8
1997	126,747.0	33,998.8	92,748.1	1,480.2	302,167.7	299,627.7	2,540.0	61,048.0	156,715.2	51,444.6	699,601.4
1998	123,524.6	37,896.7	85,629.5	949.4	263,392.1	261,362.1	2,029.9	57,115.6	136,831.2	47,510.5	629,323.5
1999	121,065.5	40,324.7	80,739.1	890.8	263,562.7	261,229.4	2,333.2	56,826.1	136,669.2	51,408.4	630,424.2
2000	116,197.9	57,303.3	58,894.6	838.6	257,322.7	255,508.0	1,814.7	60,039.1	109,526.7	58,006.1	601,929.8
2001	118,161.9	66,446.8	51,713.4	973.6	262,373.6	260,566.0	1,805.9	64,058.4	78,643.6	64,248.0	588,457.5
2002	126,242.1	74,811.2	51,432.5	1,064.9	277,038.1	275,085.7	1,950.6	65,097.5	82,415.7	66,893.1	618,751.4
2003	131,568.5	78,411.0	53,157.4	616.9	302,427.9	300,713.3	1,714.5	64,814.9	85,998.3	68,500.9	653,927.5
2004	131,648.9	79,588.8	52,058.4	400.4	337,236.3	335,438.8	1,797.5	72,896.9	104,213.1	69,343.1	715,737.2
2005	124,899.7	75,167.9	49,731.7	367.0	337,641.6	336,311.3	1,330.3	73,972.0	106,921.5	75,199.0	718,999.6
2006	124,331.0	78,559.2	45,773.5	339.4	316,570.2	315,550.1	1,020.1	77,863.0	100,829.9	87,442.3	707,376.9
2007	126,428.2	81,190.5	45,237.6	313.6	322,406.7	321,841.5	565.2	84,985.0	72,745.1	100,159.6	707,038.8
2008	122,367.3	74,091.3	48,276.0	269.8	303,194.6	303,033.1	161.5	79,678.1	56,492.1	117,345.9	679,346.7
2009	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2		76,363.8	47,059.0	118,803.0	690,385.4
2010	127,806.7	77,702.8	50,103.9	263.6	318,450.2	318,450.2		81,192.3	45,065.2	130,744.8	703,520.6
2011	126,329.9	85,071.2	41,258.7	224.0	330,719.5	330,719.5		87,478.5	42,320.2	140,923.8	727,998.1

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 2.3.3-1Y
Import of Petroleum Products

Unit : Million Litres

Year	Gasoline			Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium		Total	HSD				
1987	223.2	101.6	121.6		2,679.5	2,678.5	368.0	486.6	227.4	3,984.7
1988	375.2	195.4	179.8		3,763.4	3,763.4	545.1	285.7	270.3	5,239.6
1989	613.6	206.9	406.7		4,309.6	4,309.6	495.3	247.2	694.6	6,360.2
1990	652.7	180.3	472.4		5,590.2	5,590.2	524.2	1,777.5	518.5	9,063.2
1991	802.5	105.2	697.3		5,161.7	5,161.7	580.7	2,664.9	191.2	9,400.9
1992	1,058.7	71.2	987.6		4,294.7	4,294.7	685.2	3,175.4	3.3	9,217.3
1993	938.8	109.3	829.6		5,382.6	5,382.6	655.5	3,350.1	81.4	10,408.4
1994	833.1	416.0	417.1		4,786.4	4,786.4	524.9	3,524.1	157.9	9,826.4
1995	653.2	289.1	364.1		5,815.9	5,815.9	192.1	3,745.8	76.1	10,482.9
1996	351.9	119.9	232.1		5,133.8	5,133.8	71.9	2,741.8	146.4	8,445.8
1997	68.1	47.7	20.5	37.2	2,005.5	2,005.5	23.2	945.9	3.6	3,083.4
1998	25.0	16.8	8.2		716.0	716.0	1.6	661.4	2.8	1,406.8
1999	51.8	18.7	33.1		1,084.5	1,084.5	4.0	929.1		2,069.4
2000	29.1	17.7	11.4		645.5	645.5	3.0	622.6		1,300.2
2001	144.2	144.2			321.7	321.7	3.6			469.4
2002	224.2	217.4	6.9		706.5	706.5	50.8			981.4
2003	139.3	139.3			605.3	605.3	42.5	210.9		997.9
2004	192.7	169.8	22.9		713.5	713.5	49.8	753.1	5.9	1,715.0
2005					719.4	719.4	2.6	1,442.8		2,164.7
2006					364.8	364.8	33.9	1,105.0		1,503.7
2007	162.1	135.2	26.9		191.0	191.0	42.8	536.3		932.1
2008					89.6	89.6	47.9	254.3	837.2	1,229.0
2009	14.1	14.1			385.3	385.3	10.5	83.2	1,394.7	1,887.7
2010					61.2	61.2	3.3	101.2	2,947.1	3,112.8
2011	34.1	18.5			56.0	56.0	10.8	331.7	2,661.2	3,093.7

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Including Propane and Butane

Table 2.3.3-2Y
Import of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1987	3,846.1	1,750.7	2,095.4	46,173.3	46,156.0	17.2	6,341.4	8,385.1	3,918.5	68,664.7
1988	6,447.8	3,357.9	3,089.8	64,673.9	64,673.9		9,367.5	4,909.7	4,645.1	90,043.3
1989	10,573.5	3,565.3	7,008.2	74,263.3	74,263.3		8,535.0	4,259.7	11,969.3	109,600.2
1990	11,247.3	3,106.9	8,140.4	96,330.6	96,330.6		9,033.0	30,629.9	8,934.8	156,178.0
1991	13,828.7	1,812.8	12,015.9	88,946.7	88,946.7		10,006.6	45,921.7	3,294.7	161,997.6
1992	18,193.7	1,223.5	16,971.8	73,804.3	73,804.3		11,775.1	54,569.1	56.7	158,399.4
1993	16,177.4	1,883.4	14,295.7	92,753.3	92,753.3		11,295.6	57,729.1	1,402.6	179,359.2
1994	14,356.0	7,168.5	7,187.4	82,479.5	82,479.5		9,045.1	60,727.5	2,720.9	169,330.2
1995	11,255.9	4,981.7	6,274.1	100,219.9	100,219.9		3,310.2	64,547.8	1,311.3	180,643.5
1996	6,047.3	2,060.4	3,986.6	88,224.2	88,224.2		1,235.6	47,117.7	2,515.8	145,142.4
1997	1,173.5	821.9	353.2	34,558.9	34,558.9		399.7	16,299.8	62.0	53,134.2
1998	430.8	289.4	141.3	12,338.1	12,338.1		27.5	11,397.2	48.2	24,242.8
1999	892.6	322.2	570.3	18,688.1	18,688.1		68.9	16,010.3		35,661.3
2000	500.0	304.1	195.9	11,092.9	11,092.9		51.5	10,699.3		22,343.9
2001	2,484.8	2,484.8		5,543.5	5,543.5		62.0			8,089.8
2002	3,863.4	3,746.2	118.9	12,174.4	12,174.4		875.3			16,913.0
2003	2,400.4	2,400.4		10,430.5	10,430.5		732.3	3,634.2		17,197.1
2004	3,311.5	2,918.0	393.5	12,261.4	12,261.4		855.8	12,942.0	101.3	29,472.5
2005				12,396.7	12,396.7		44.8	24,862.4		37,302.8
2006				6,286.2	6,286.2		584.1	19,041.4		25,911.9
2007	2,793.3	2,329.7	463.5	3,291.3	3,291.3		737.5	9,241.5		16,062.7
2008				1,539.7	1,539.7		823.1	4,370.1	14,387.2	21,120.3
2009	242.9	242.9		6,639.5	6,639.5		180.9	1,433.7	24,033.5	32,529.7
2010				1,054.6	1,054.6		56.8	1,743.8	50,784.6	53,640.3
2011	587.6	318.7		964.9	964.9		186.1	5,715.8	45,857.9	53,311.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.4-1Y
Export of Petroleum Products

Unit : Million Litres

Year	Gasoline			Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD				
1989	4.1	3.9	0.2		5.4	5.4				9.4
1990	9.3	8.5	0.8		14.5	14.5				23.7
1991	16.7	16.0	0.7		17.4	17.4	0.3		0.2	34.5
1992	105.6	104.5	1.1		23.3	23.3	6.2		59.4	194.5
1993	304.2	301.5	2.7	0.3	54.1	54.1	7.2	19.5	87.2	472.5
1994	239.4	235.1	4.2	0.4	71.2	71.2	9.6	25.5	27.0	373.0
1995	274.0	255.8	18.2	0.3	87.3	87.3	13.6	44.5	187.9	607.5
1996	1,236.8	705.3	531.5	39.1	1,071.1	1,071.1	195.4	1,014.8	364.5	3,921.5
1997	1,948.7	935.0	1,013.6	13.7	1,953.1	1,953.1	277.5	715.2	873.6	5,781.7
1998	1,716.1	635.8	1,080.3	26.3	2,203.2	2,203.2	236.8	199.4	873.3	5,255.0
1999	1,708.5	486.3	1,222.3	302.2	1,976.0	1,976.0	820.8	330.8	1,346.1	6,484.3
2000	1,102.3	329.9	772.4	391.7	1,676.8	1,676.8	816.4	769.3	1,240.5	5,996.9
2001	1,480.6	382.8	1,097.8	394.7	1,646.2	1,642.8	487.8	1,503.6	1,403.3	6,916.2
2002	1,230.4	220.9	1,009.5	318.5	2,331.6	2,331.6	920.7	766.8	1,269.9	6,837.8
2003	1,108.3	251.1	857.3	109.4	2,148.2	2,148.2	558.0	779.9	1,426.1	6,129.8
2004	1,359.5	316.5	1,043.0	58.9	2,381.6	2,381.6	367.1	1,078.3	1,648.6	6,893.9
2005	2,021.9	738.5	1,283.4	3.8	1,809.0	1,809.0	599.3	903.4	1,755.3	7,092.7
2006	1,921.9	514.4	1,407.5	34.0	2,940.5	2,940.5	1,017.3	1,418.6	1,067.2	8,399.3
2007	1,578.9	543.2	1,035.7	37.2	2,689.5	2,689.5	449.0	2,478.0	514.0	7,746.6
2008	1,478.4	648.0	830.4	108.6	3,806.3	3,806.3	1,346.8	3,624.3	39.3	10,403.6
2009	1,351.1	903.9	447.2	19.0	4,796.5	4,796.5	1,609.3	3,878.0	27.8	11,681.6
2010	1,341.8	801.8	539.9	426.1	5,505.3	5,505.3	1,404.5	3,234.0	45.7	11,957.3
2011	968.7	730.3	238.4	106.8	4,705.5	4,705.5	1,201.5	3,482.9	29.9	10,495.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2Y
Export of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium		Total	HSD				
1989	70.6	67.2	3.4		93.0	93.0				163.1
1990	160.2	146.4	13.7		249.8	249.8				409.3
1991	287.7	275.7	12.0		299.8	299.8	5.1		3.4	595.5
1992	1,814.7	1,795.8	18.9		400.4	400.4	106.5		1,020.7	3,342.5
1993	5,241.9	5,195.4	46.5	5.1	932.2	932.2	124.0	336.0	1,502.6	8,142.2
1994	4,125.3	4,051.2	72.3	6.8	1,226.9	1,226.9	165.4	439.4	465.2	6,428.9
1995	4,721.5	4,407.9	313.6	5.1	1,504.3	1,504.3	234.3	766.8	3,237.9	10,468.9
1996	21,254.3	12,120.5	9,133.8	671.9	18,406.8	18,406.8	3,357.9	17,439.3	6,263.9	67,391.3
1997	33,580.1	16,111.9	17,466.4	236.0	33,655.9	33,655.9	4,781.8	12,324.3	15,053.9	99,631.5
1998	29,571.9	10,956.1	18,615.8	453.2	37,965.6	37,965.6	4,080.5	3,436.0	15,048.7	90,555.1
1999	29,440.9	8,379.9	21,062.7	5,207.5	34,050.5	34,050.5	14,144.0	5,700.3	23,196.0	111,739.2
2000	18,943.0	5,669.3	13,273.6	6,731.3	28,815.7	28,815.7	14,029.8	13,220.4	21,317.9	103,056.6
2001	25,513.7	6,596.4	18,917.3	6,801.4	28,367.4	28,308.8	8,405.8	25,910.1	24,181.7	119,180.4
2002	21,202.3	3,806.5	17,395.7	5,488.4	40,178.2	40,178.2	15,865.5	13,213.5	21,882.9	117,830.0
2003	19,098.2	4,326.9	14,773.0	1,885.1	37,017.9	37,017.9	9,615.4	13,439.2	24,574.6	105,630.5
2004	23,362.9	5,439.0	17,923.9	1,012.1	40,927.7	40,927.7	6,308.6	18,530.5	28,331.1	118,471.6
2005	34,841.5	12,725.8	22,115.6	65.4	31,172.8	31,172.8	10,327.1	15,567.4	30,247.4	122,222.5
2006	33,118.3	8,864.1	24,254.1	585.8	50,670.8	50,670.8	17,530.1	24,445.4	18,390.0	144,738.6
2007	27,207.7	9,360.4	17,847.2	641.0	46,345.6	46,345.6	7,737.1	42,701.0	8,857.2	133,490.1
2008	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2	65,411.2	23,144.7	62,283.5	675.3	178,786.3
2009	23,282.2	15,576.0	7,706.1	327.4	82,653.6	82,653.6	27,731.5	66,825.9	479.0	201,298.1
2010	23,121.9	13,816.6	9,303.5	7,342.5	94,867.6	94,867.6	24,202.4	55,728.4	787.5	206,049.7
2011	16,692.7	12,584.5	4,108.1	1,840.3	81,085.4	81,085.4	20,704.3	60,017.5	515.2	180,852.4

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-1Y
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Year	Crude Oil Balance				Oil Products				Oil Products				Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export		
1987	31,917	161,404		178,401	187,458	69,790	257,249	252,520	44,746	110,775	96,998		252,520	
1988	37,099	154,906		184,185	194,912	91,542	286,454	286,767	50,230	125,185	111,352		286,767	
1989	39,792	204,185		225,420	228,735	111,109	339,845	341,587	57,240	149,051	135,295	169	341,756	
1990	43,238	210,001		240,803	250,755	158,052	408,808	411,876	63,533	171,080	177,262	415	412,291	
1991	46,256	220,739		248,626	268,647	164,190	432,837	437,149	67,038	171,469	198,640	760	437,909	
1992	52,846	277,501		305,631	343,165	161,172	504,338	485,489	74,496	177,929	233,063	10,240	495,730	
1993	53,718	323,859		357,718	399,453	185,519	584,972	548,503	84,640	207,358	256,504	16,488	564,991	
1994	57,167	372,885	683	414,020	449,449	180,554	630,004	605,282	96,347	228,993	279,940	11,831	617,113	
1995	53,727	452,114	3,495	485,490	524,431	193,276	717,707	676,847	108,446	269,148	299,252	18,448	695,296	
1996	62,057	633,170	8,212	659,005	692,378	157,980	850,358	749,315	118,886	306,349	324,078	77,036	826,351	
1997	72,263	728,757	9,803	767,460	807,783	76,958	884,742	799,152	126,747	302,167	370,237	103,970	903,123	
1998	75,760	679,728	10,281	721,808	761,043	40,115	801,159	727,514	123,525	263,391	340,597	93,930	821,445	
1999	83,636	698,895	10,620	741,956	795,171	55,450	850,621	762,447	121,065	263,562	377,819	121,228	883,675	
2000	110,157	673,133	36,885	749,629	822,770	93,515	916,285	741,781	116,198	257,322	368,260	122,707	864,489	
2001	113,760	712,400	38,189	756,013	842,636	75,722	918,358	727,146	118,161	262,373	346,612	138,653	865,800	
2002	129,291	728,532	51,411	827,688	855,821	68,800	924,622	758,288	126,242	277,037	355,007	135,555	893,844	
2003	158,985	775,870	66,799	846,091	906,018	68,884	974,902	804,224	131,569	302,428	370,227	126,489	930,714	
2004	153,719	869,924	58,400	925,850	930,528	78,228	1,008,757	857,237	131,648	337,236	388,352	140,161	997,399	
2005	183,377	827,701	65,580	909,197	916,713	78,961	995,675	860,396	124,899	337,641	397,856	137,029	997,426	
2006	204,199	829,300	65,441	925,497	939,220	71,241	1,010,462	847,874	124,331	316,570	406,972	171,896	1,019,770	
2007	213,408	804,242	52,045	920,759	944,775	54,124	998,899	845,859	126,427	322,406	397,025	169,540	1,015,399	
2008	228,828	811,560	45,863	925,432	957,292	38,980	996,273	805,770	122,368	303,194	380,208	210,711	1,016,482	
2009	237,941	803,361	41,066	936,633	1,016,306	44,587	1,060,894	828,472	129,660	318,195	380,617	240,405	1,068,878	
2010	241,801	816,201	29,956	961,763	1,053,276	84,122	1,137,399	880,692	127,806	318,449	434,436	241,321	1,122,014	
2011	224,127	794,226	33,321	935,908	1,103,234	95,173	1,198,407	928,617	126,330	330,720	471,566	222,204	1,150,821	

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2Y
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total Supply	677	751	852	1,007	1,085	1,273	1,478	1,455	1,743	2,110	2,513	2,417
- Production	554	605	477	727	981	1,272	1,434	1,369	1,702	2,031	2,511	2,415
GSP	405	438	287	520	778	965	1,043	915	978	1,070	1,170	1,186
Refinery	150	168	190	207	203	307	391	455	673	888	1,002	924
Others									52	73	340	305
- Import	123	146	375	280	103	2	44	85	41	79	2	2
Total Demand	680	756	849	927	996	1,229	1,351	1,439	1,639	2,031	2,368	2,372
- Consumption	680	756	849	927	996	1,197	1,304	1,424	1,538	1,834	1,896	1,901
Cooking	459	582	666	717	717	787	864	953	1,056	1,171	1,225	1,130
Industry	71	79	95	108	125	156	176	206	240	268	281	272
Automobile	150	96	88	102	154	169	160	139	128	134	112	93
Feedstock*						85	103	126	114	260	278	406
Own Used												
- Feedstock												
- Energy												
- Export						32	47	15	101	197	472	472
Balance (Supply-Demand)	-3	-5	3	81	88	45	126	16	104	80	145	45

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including own used as feedstock of IRPC and PTTGC

Table 2.4-2Y (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Total Supply	2,692	3,011	3,428	3,434	3,607	3,821	4,177	4,159	4,469	4,807	5,221	6,008	6,859
- Production	2,692	3,011	3,428	3,434	3,607	3,818	4,177	4,159	4,469	4,355	4,467	4,416	5,422
GSP	1,232	1,401	1,785	1,850	1,918	1,960	2,397	2,357	2,667	2,664	2,695	2,676	3,428
Refinery	1,083	1,283	1,480	1,421	1,478	1,650	1,581	1,585	1,567	1,688	1,770	1,730	1,994
Others	377	327	164	163	211	208	199	218	236	3	2	10	
- Import						3				452	753	1,591	1,437
Total Demand	2,663	2,954	3,339	3,310	3,505	3,662	4,047	4,094	4,393	4,810	5,223	5,968	6,906
- Consumption	1,936	2,284	2,569	2,624	2,735	2,772	3,099	3,518	4,116	4,788	5,208	5,943	6,890
Cooking	1,206	1,348	1,430	1,468	1,502	1,513	1,604	1,721	1,884	2,124	2,231	2,435	2,656
Industry	318	319	335	399	435	450	459	521	611	665	593	778	718
Automobile	91	162	248	229	210	225	303	459	572	776	666	680	920
Feedstock*	322	455	556	528	588	584	711	698	798	759	1,056	1,482	2,113
Own Used							22	119	251	466	662	567	483
- Feedstock							22	69	170	335	422	354	353
- Energy								49	81	130	240	213	131
- Export	727	670	770	686	770	890	948	576	278	21	15	25	16
Balance (Supply-Demand)	29	57	89	124	102	159	130	65	76	-2	-2	40	-47

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including own used as feedstock of IRPC and PTTGC

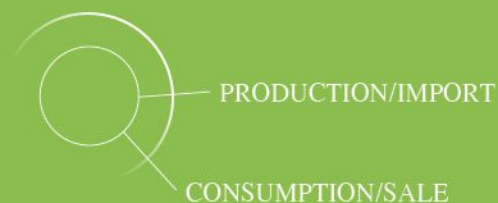




ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 3 NATURAL GAS

บทที่ 3
ก๊าซธรรมชาติ

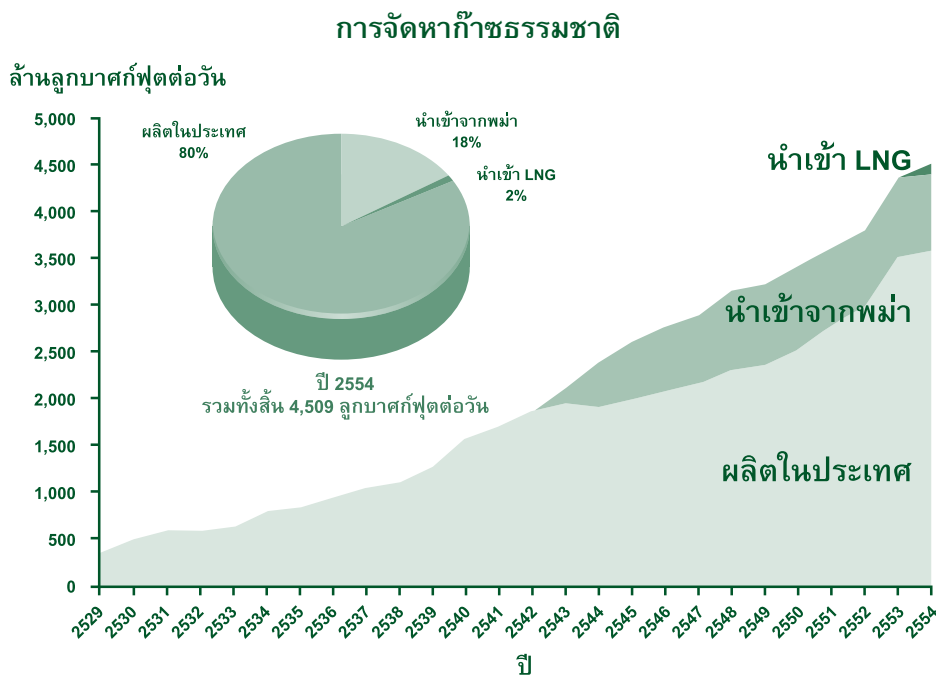




บทที่ 3

ก๊าซธรรมชาติ

การจัดหาก๊าซธรรมชาติ ประเทศไทยเริ่มผลิตก๊าซธรรมชาติในปี 2524 จากแหล่งเอราวัณ แต่ในปัจจุบันมีแหล่งก๊าซธรรมชาติที่สำคัญเพิ่มขึ้นอีกหลายแหล่ง อาทิ แหล่งบงกช เจดีเอ อาทิทย และไพลิน โดยในปี 2554 การผลิตก๊าซธรรมชาติในประเทศอยู่ที่ระดับ 3,581 ล้านลูกบาศก์ฟุตต่อวัน คิดเป็นสัดส่วนร้อยละ 80 ส่วนที่เหลือร้อยละ 20 เป็นการนำเข้าจากต่างประเทศ ซึ่งแบ่งเป็นการนำเข้าจากพม่า 830 ล้านลูกบาศก์ฟุตต่อวัน และเป็นการนำเข้า LNG จำนวน 98 ล้านลูกบาศก์ฟุตต่อวัน รวมเป็นการจัดหาทั้งสิ้น 4,509 ล้านลูกบาศก์ฟุตต่อวัน ทั้งนี้ ประเทศไทยเริ่มมีการนำเข้า LNG เป็นครั้งแรกในเดือนพฤษภาคม 2554



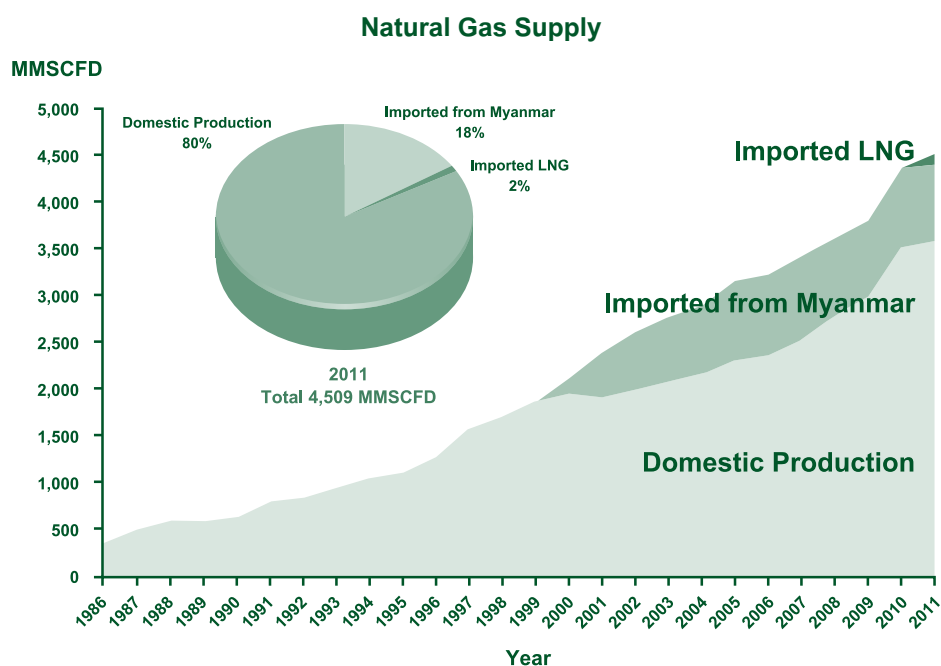
การใช้ก๊าซธรรมชาติ ในปี 2554 มีปริมาณการใช้ทั้งสิ้น 4,143 ล้านลูกบาศก์ฟุตต่อวัน ก๊าซธรรมชาติจะถูกนำไปใช้ในการผลิตไฟฟ้ามากที่สุดคือร้อยละ 60 ส่วนที่เหลือเป็นการใช้ในโรงแยกก๊าซ ร้อยละ 21 อุตสาหกรรม ร้อยละ 14 และใช้ในการขนส่ง (CNG) ร้อยละ 5

Chapter 3

Natural Gas

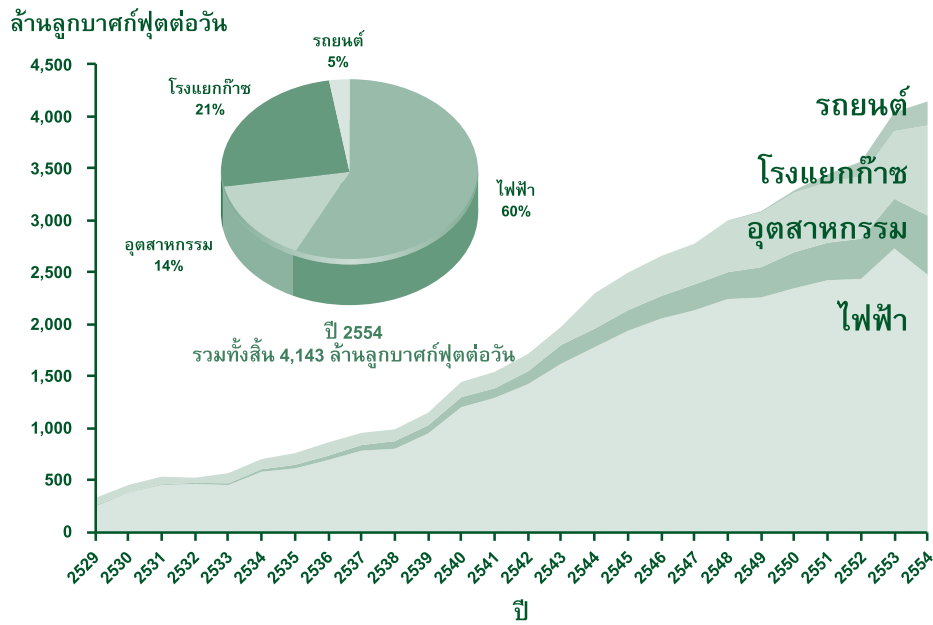


Natural Gas Supply. Natural gas production in Thailand began in 1981 from Erawan field; to date, additional major gas fields have been discovered, comprising Bong Kot, JDA (Thailand-Malaysia Joint Development Area), Arthit and Pailin. In 2011, domestic natural gas production was at a level of 3,581 million standard cubic feet per day (MMSCFD), accounting for a share of 80%; the remaining 20% was imported from Myanmar 830 MMSCFD and imported LNG 98 MMSCFD, making a total natural gas supply of the country at 4,509 MMSCFD. There was LNG imported in Thailand starting in May 2011.

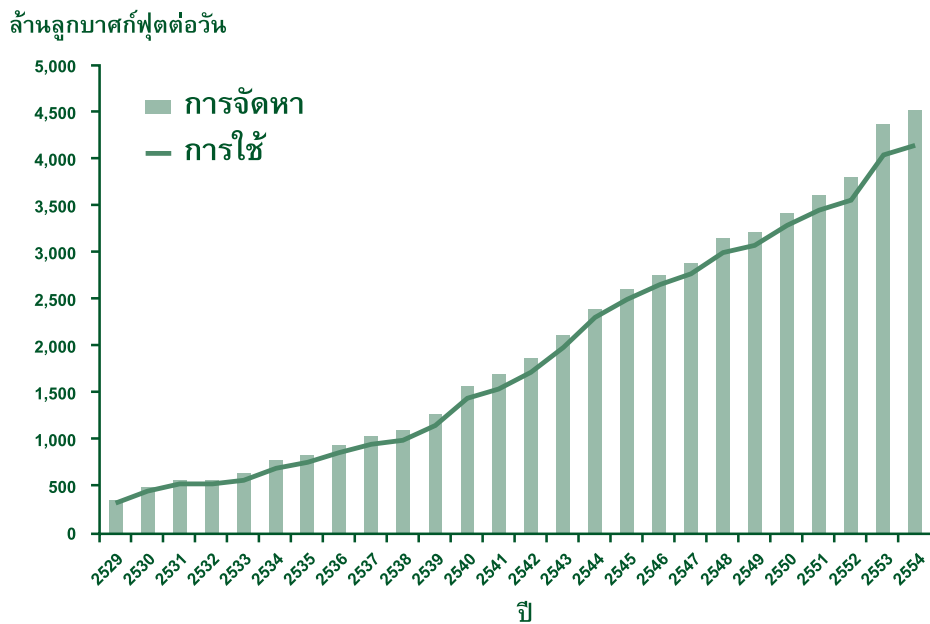


Natural Gas Consumption. The total volume of natural gas consumption in 2011 was 4,143 MMscfd. Natural gas was mainly used as fuel in power generation, holding a share of 60% of the total consumption in the year. The remainder was used in the following: gas separation plants, at a share of 21%; the industrial sector, 14%; and the transport (CNG), 5%.

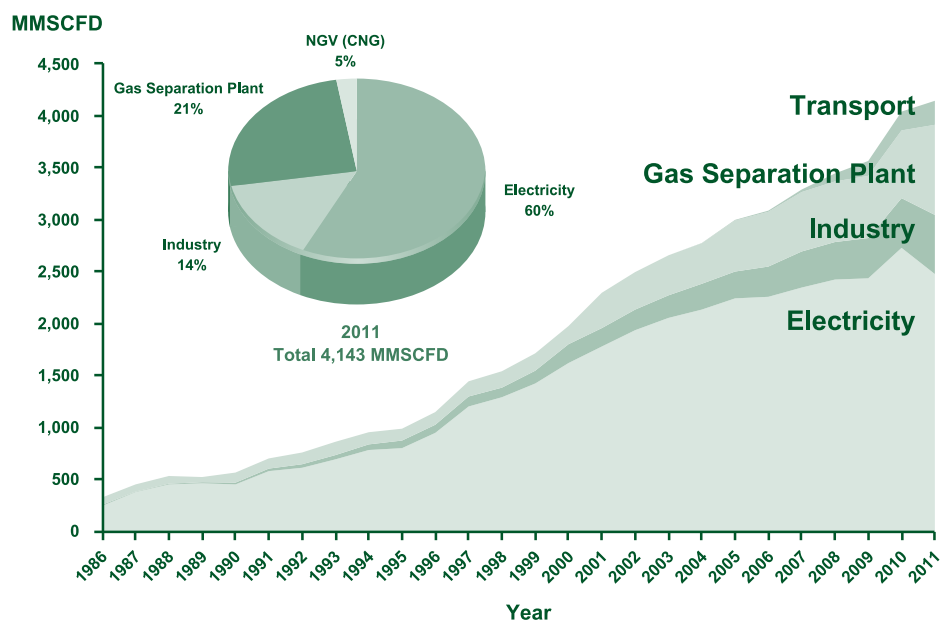
การใช้ก๊าซธรรมชาติรายสาขา



การจัดการและการใช้ก๊าซธรรมชาติ



Natural Gas Consumption by Sector



Natural Gas Supply and Consumption

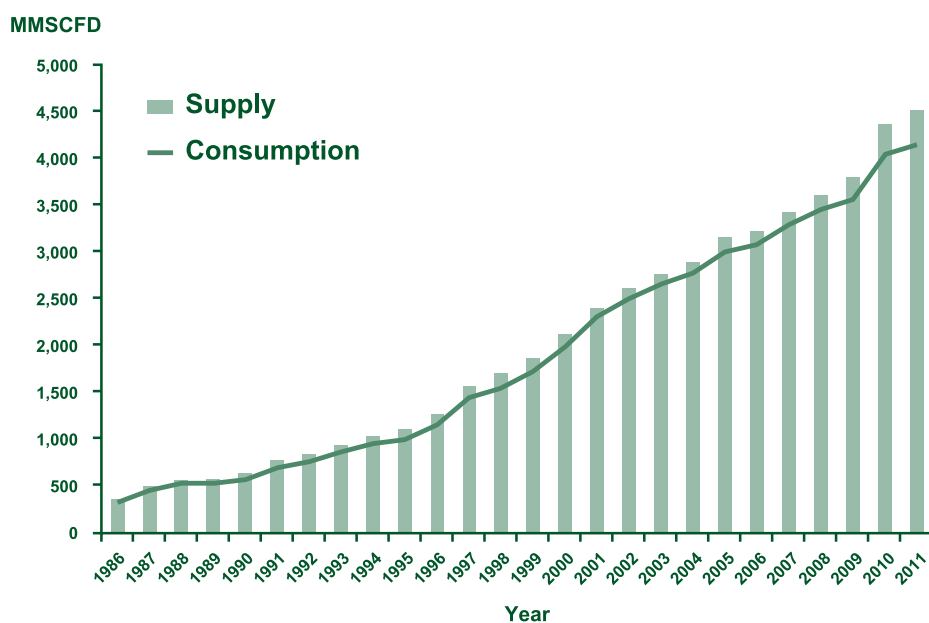


Table 3.1-1Y
Production and Import of Natural Gas

Unit : MMSCFD

Year	Domestic Production														Import				Grand Total	
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana	Yetakun	LNG		Total Import
1987	31			209		170								79	489				489	
1988	30			216		197								134	578				578	
1989	32			221		196								129	579				579	
1990	41			231		201								158	631				631	
1991	43		51	284		212								192	782				782	
1992	50		57	253		206			128					138	832				832	
1993	56		56	290		197			162		70			110	939				939	
1994	65		63	267		198			160		202			82	1,038				1,038	
1995	68		64	285		195	2		152		237			95	1,099				1,099	
1996	60		65	268		203	49		160		336			126	1,267				1,267	
1997	61		79	294		219	50		209		344			307	1,564				1,564	
1998	55		90	299		211	25		246		437			335	1,698	2		2	1,700	
1999	56	27	93	306	61	171	16		253		578			299	1,860	2		2	1,861	
2000	59	97	71	278	234	125	24		208		548			304	1,948	128	36	164	2,113	
2001	57	118	60	266	212	118	9		199		584			275	1,900	377	119	496	2,396	
2002	56	152	59	266	298	114	9		228		566	11		229	1,986	418	199	617	2,603	
2003	55	169	50	281	406	96	45		189		516	30		241	2,077	410	275	686	2,763	
2004	54	147	35	274	412	104	64		187		597	24		259	2,158	439	287	726	2,884	
2005	60	157	33	277	435	118	47		221		605	41		297	2,292	431	426	857	3,149	
2006	50	159	31	278	438	90	27	6	263		627	41		343	2,353	452	417	869	3,222	
2007	46	172	26	278	457	108	13	93	309		629	65		319	2,515	473	433	906	3,421	
2008	41	147	23	275	431	101	14	85	286		604	100	126	268	2,778	434	394	828	3,606	
2009	54	86	20	244	417	64	24	81	177		540	418	110	441	315	2,990	409	394	3,794	
2010	63	76	18	256	430	82	85	87	199		596	501	95	649	374	3,511	434	419	853	4,364
2011	43	86	16	239	411	111	95	84	179		606	407	56	763	487	3,581	426	404	98	4,509

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1Y
Distribution of NGL

Year	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
1987		11	21	33		72,204	135,172	207,376		197	370	568
1988		131	6	138		826,823	39,455	866,279		2,259	107	2,366
1989		75	4	79		470,285	25,025	495,310		1,288	68	1,357
1990	5	133	2	140	30,442	836,226	11,708	878,376	83	2,291	32	2,406
1991	85	113	12	211	537,469	712,688	74,725	1,324,883	1,472	1,952	204	3,629
1992	152	47	20	219	953,609	295,856	125,815	1,375,281	2,605	808	343	3,757
1993	140	73	31	244	879,449	461,695	195,308	1,536,452	2,409	1,264	535	4,209
1994	67	113	43	223	419,846	711,359	273,465	1,404,672	1,150	1,948	749	3,848
1995	96	94	37	227	602,360	588,716	234,949	1,426,026	1,650	1,612	643	3,906
1996	33	165	57	255	205,600	1,040,130	358,172	1,603,903	561	2,841	978	4,382
1997	153	28	154	335	961,815	175,920	968,882	2,106,618	2,635	481	2,654	5,771
1998	178	18	164	360	1,118,416	113,311	1,031,602	2,263,330	3,064	310	2,826	6,200
1999	199	27	171	396	1,249,394	169,719	1,073,063	2,492,177	3,423	464	2,939	6,827
2000	149	23	331	503	938,176	146,385	2,079,331	3,163,893	2,563	399	5,681	8,644
2001	106	55	395	556	669,375	343,469	2,482,794	3,495,640	1,833	941	6,802	9,577
2002	57		489	546	358,911		3,077,307	3,436,219	983		8,430	9,414
2003	49	107	486	642	310,746	675,638	3,054,569	4,040,954	851	1,851	8,368	11,071
2004	79	116	429	624	499,812	728,529	2,695,422	3,923,764	1,365	1,990	7,364	10,720
2005	176	6	543	724	1,106,817	34,611	3,415,103	4,556,531	3,032	94	9,356	12,483
2006	129	57	547	733	808,290	359,473	3,441,850	4,609,614	2,214	984	9,429	12,629
2007	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105	11,205	13,596
2008	142		672	814	894,079		4,226,379	5,120,458	2,442		11,547	13,990
2009	114		676	790	717,208		4,253,688	4,970,897	1,964		11,653	13,618
2010	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962
2011	203		777	979	1,275,883		4,884,661	6,160,545	3,495		13,382	16,878

Source : PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2Y
Consumption of Natural Gas by Sector

Unit : MMSCFD

Year	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
1987	379			379	4	69		452
1988	452			452	7	74		532
1989	463			463	10	50		523
1990	452			452	17	97		567
1991	580			580	24	98		702
1992	612			612	34	113		759
1993	693			693	41	128		862
1994	783			783	54	117		954
1995	801			801	73	114		988
1996	888		60	948	78	122		1,148
1997	1,119		83	1,202	96	146		1,444
1998	1,152		140	1,291	92	158		1,542
1999	1,153	2	267	1,423	123	167		1,713
2000	1,244	71	305	1,620	181	175		1,976
2001	1,070	360	349	1,779	177	340		2,296
2002	1,075	486	375	1,936	198	361		2,495
2003	991	662	401	2,054	217	385		2,657
2004	994	723	418	2,134	248	389	3	2,774
2005	1,011	802	428	2,242	258	491	6	2,997
2006	1,016	825	417	2,257	291	527	11	3,086
2007	1,054	847	445	2,346	347	572	24	3,288
2008	1,014	968	441	2,423	361	583	77	3,444
2009	1,101	905	429	2,435	387	599	143	3,564
2010	1,346	943	440	2,728	478	652	181	4,039
2011	1,148	866	462	2,476	569	867	231	4,143

Remarks : Heat value of NG = 1,000 BTU/SCF

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3Y
Consumption Share of Natural Gas by Sector

Year	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
1987	379	4	69		452	83.8	1.0	15.2		100.0
1988	452	7	74		532	84.9	1.3	13.8		100.0
1989	463	10	50		523	88.6	1.8	9.6		100.0
1990	452	17	97		567	79.8	3.1	17.1		100.0
1991	580	24	98		702	82.5	3.5	14.0		100.0
1992	612	34	113		759	80.6	4.4	14.9		100.0
1993	693	41	128		862	80.4	4.7	14.8		100.0
1994	783	54	117		954	82.1	5.6	12.3		100.0
1995	801	73	114		988	81.1	7.4	11.6		100.0
1996	948	78	122		1,148	82.5	6.8	10.7		100.0
1997	1,202	96	146		1,444	83.2	6.7	10.1		100.0
1998	1,291	92	158		1,542	83.8	6.0	10.3		100.0
1999	1,423	123	167		1,713	83.1	7.2	9.8		100.0
2000	1,620	181	175		1,976	82.0	9.2	8.9		100.0
2001	1,779	177	340		2,296	77.5	7.7	14.8		100.0
2002	1,936	198	361		2,495	77.6	8.0	14.4		100.0
2003	2,054	217	385		2,657	77.3	8.2	14.5		100.0
2004	2,134	248	389	3	2,774	76.9	8.9	14.0	0.1	100.0
2005	2,242	258	491	6	2,997	74.8	8.6	16.4	0.2	100.0
2006	2,257	291	527	11	3,086	73.2	9.4	17.1	0.4	100.0
2007	2,346	347	572	24	3,288	71.3	10.6	17.4	0.7	100.0
2008	2,423	361	583	77	3,444	70.4	10.5	16.9	2.2	100.0
2009	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0
2010	2,728	478	652	181	4,039	67.6	11.8	16.1	4.5	100.0
2011	2,476	569	867	231	4,143	59.8	13.7	20.9	5.6	100.0

Remark : Heat value of NG = 1,000 BTU/SCF

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-4
Consumption of Compressed Natural Gas (CNG)

Year	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Liters)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2007	49,335	6,533	55,868	5,166	3,421	8,587	24	168	87	255
Jan	24,306	2,679	26,985	280	154	434	14	9	4	13
Feb	25,770	2,836	28,606	293	161	454	16	9	4	14
Mar	27,788	3,029	30,817	367	200	567	18	11	5	17
Apr	28,832	3,180	32,012	365	201	566	19	11	5	17
May	29,971	3,344	33,315	388	216	604	19	12	6	18
Jun	32,536	3,680	36,216	411	233	644	21	13	6	19
Jul	34,437	3,914	38,351	443	252	695	22	14	7	21
Aug	37,215	4,293	41,508	484	279	763	25	15	8	23
Sep	40,045	4,612	44,657	511	294	805	27	16	8	24
Oct	42,769	5,262	48,031	568	350	918	30	18	10	27
Nov	46,072	5,846	51,918	616	391	1,007	34	19	11	30
Dec	49,335	6,533	55,868	680	450	1,130	36	21	12	33
2008	104,553	23,182	127,735	13,416	14,873	28,289	77	445	381	826
Jan	53,542	6,873	60,415	776	498	1,274	41	24	14	38
Feb	57,666	7,603	65,269	815	537	1,352	47	25	15	40
Mar	60,272	8,853	69,125	923	678	1,601	52	29	18	47
Apr	63,016	9,903	72,919	955	750	1,705	57	30	20	50
May	66,245	11,265	77,510	1,052	895	1,947	63	33	24	57
Jun	70,914	13,247	84,161	1,115	1,041	2,156	72	35	28	63
Jul	78,099	16,233	94,332	1,263	1,312	2,575	83	39	36	75
Aug	85,307	18,470	103,777	1,363	1,476	2,839	91	42	40	83
Sep	91,999	20,655	112,654	1,384	1,553	2,937	98	43	42	85
Oct	96,097	22,031	118,128	1,540	1,765	3,305	107	48	48	96
Nov	99,764	22,812	122,576	1,514	1,730	3,244	108	47	47	94
Dec	104,553	23,182	127,735	1,591	1,763	3,354	108	50	48	98
2009	133,777	28,246	162,023	25,338	26,750	52,088	143	797	721	1,518
Jan	107,932	23,503	131,435	1,732	1,885	3,617	117	54	51	105
Feb	116,299	23,726	140,025	1,837	1,874	3,711	133	57	51	108
Mar	117,348	23,987	141,335	2,112	2,158	4,270	138	66	59	124
Apr	118,350	24,142	142,492	1,870	1,908	3,778	126	58	52	110
May	119,543	24,324	143,867	2,051	2,087	4,138	133	64	57	121
Jun	121,925	24,716	146,641	2,108	2,137	4,245	142	66	58	124
Jul	124,252	25,213	149,465	2,194	2,227	4,421	143	68	61	129
Aug	126,161	25,777	151,938	2,296	2,345	4,641	150	71	64	135
Sep	128,284	26,330	154,614	2,232	2,290	4,522	151	69	62	132
Oct	128,924	27,278	156,202	2,322	2,457	4,779	154	72	67	139
Nov	132,183	27,835	160,018	2,325	2,449	4,774	159	72	67	139
Dec	133,777	28,246	162,023	2,526	2,666	5,192	167	79	73	151

Table 3.2-4 (Cont.)
Consumption of Compressed Natural Gas (CNG)

Year	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Liters)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2010	191,233	34,435	225,668	34,765	31,301	66,066	181	1,042	888	1,929
Jan	136,780	28,687	165,467	2,334	2,447	4,781	154	73	67	139
Feb	140,052	29,022	169,074	2,357	2,442	4,799	171	73	67	140
Mar	143,944	29,533	173,477	2,693	2,763	5,456	176	84	75	159
Apr	147,431	29,921	177,352	2,457	2,493	4,950	165	68	144	
May	151,313	30,384	181,697	2,583	2,594	5,177	167	80	71	151
Jun	156,849	30,892	187,741	2,736	2,694	5,430	181	85	73	159
Jul	161,866	31,486	193,352	2,813	2,736	5,549	179	88	75	162
Aug	166,981	32,135	199,116	2,859	2,752	5,611	181	89	75	164
Sep	172,763	32,754	205,517	2,926	2,774	5,700	191	91	76	167
Oct	178,055	33,313	211,368	3,091	2,892	5,983	190	96	79	175
Nov	185,113	33,877	218,990	3,196	2,924	6,120	204	99	80	179
Dec	191,233	34,435	225,668	3,426	3,084	6,510	210	107	84	191
2011	260,520	40,061	300,581	47,590	36,591	84,181	231	1,443	1,030	2,473
Jan	196,792	34,924	231,716	3,400	3,017	6,417	207	106	82	188
Feb	203,099	35,451	238,550	3,439	3,001	6,440	230	107	82	189
Mar	209,986	36,080	246,066	3,852	3,309	7,161	231	120	90	210
Apr	215,140	36,513	251,653	3,489	2,961	6,450	215	109	81	189
May	222,536	37,024	259,560	4,028	3,350	7,378	238	125	91	217
Jun	230,100	37,598	267,698	4,062	3,318	7,380	246	126	90	217
Jul	237,104	38,135	275,239	4,158	3,344	7,502	242	129	91	220
Aug	244,732	38,699	283,431	4,293	3,395	7,688	248	134	92	226
Sep	251,986	39,194	291,180	4,185	3,255	7,440	248	130	89	219
Oct	255,090	39,504	294,594	3,879	3,003	6,882	222	121	82	202
Nov	256,183	39,757	295,940	3,328	2,582	5,910	197	104	70	174
Dec	260,520	40,061	300,581	4,259	3,274	7,533	243	133	89	222

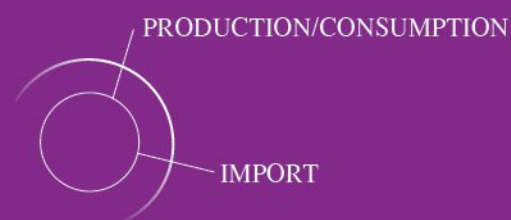




ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 4 LIGNITE/COAL

บทที่ 4
ลิกไนต์/ถ่านหิน



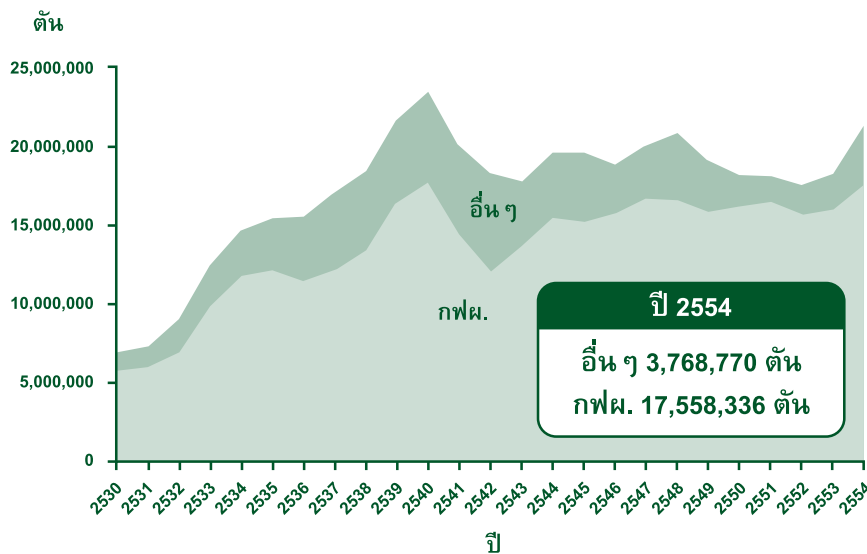


บทที่ 4 ลิกไนต์/ถ่านหิน

การผลิตลิกไนต์ในประเทศไทย ผลิตได้จาก 2 ผู้ผลิตหลัก คือ เมืองของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และเมืองของบริษัทเอกชน โดยเมืองของ กฟผ. ประกอบด้วยการผลิตจากเหมืองแม่เมาะ จังหวัดลำปาง และจากเหมืองกระบี่ จังหวัดกระบี่ ทั้งนี้ลิกไนต์ที่ผลิตจากเหมืองแม่เมาะทั้งหมดจะถูกนำไปใช้ในการผลิตไฟฟ้าของโรงไฟฟ้าแม่เมาะ ส่วนลิกไนต์ที่ผลิตจากเหมืองกระบี่จะถูกนำไปใช้ในภาคอุตสาหกรรม ทั้งนี้เหมืองกระบี่ได้หยุดการผลิตในปี 2551

การผลิตลิกไนต์จากเหมืองของบริษัทเอกชนปัจจุบันเริ่มชะลอตัวลง เนื่องจากแหล่งสัมปทานสำคัญ ๆ ภายในประเทศทยอยหมดลง โดยลิกไนต์ที่ผลิตจากเหมืองเอกชนส่วนใหญ่จะนำไปใช้ในภาคอุตสาหกรรม เช่น ซีเมนต์ กระดาษ อาหาร และสิ่งทอ ฯลฯ

การผลิตลิกไนต์



การใช้ลิกไนต์และถ่านหิน ในปี 2554 มีสัดส่วนการใช้ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงในการผลิตไฟฟ้าและภาคอุตสาหกรรมใกล้เคียงกัน (คิดจากค่าความร้อน) โดยภาคอุตสาหกรรมนำไปใช้ในการผลิตปูนเม็ด (Clinker) และใช้ในอุตสาหกรรมที่ใช้หม้อน้ำเป็นหลัก

ในปี 2554 มีการใช้ลิกไนต์ในการผลิตไฟฟ้าคิดเป็นสัดส่วนร้อยละ 28 ที่เหลืออีกร้อยละ 6 ใช้ในภาคอุตสาหกรรม ส่วนถ่านหินใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ IPP ร้อยละ 16 SPP ร้อยละ 9 และใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรมร้อยละ 41

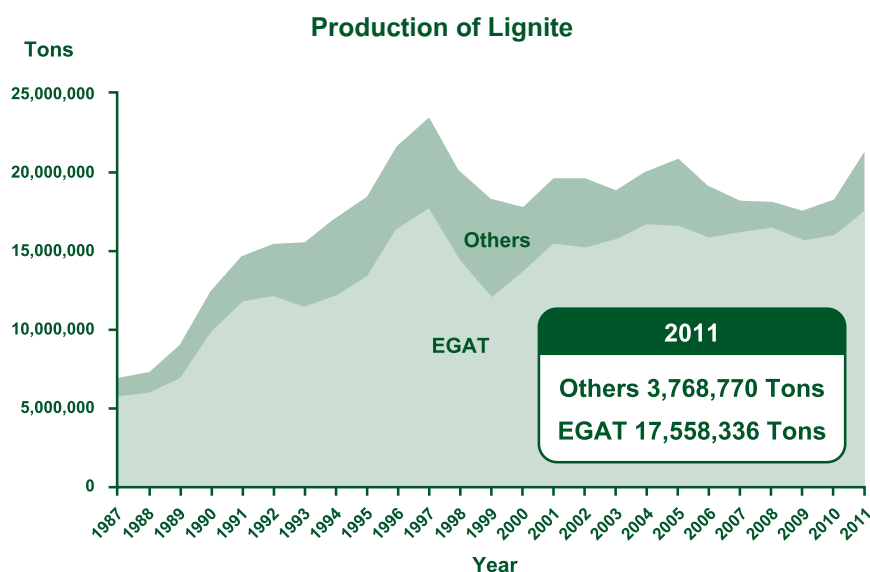
Chapter 4

Lignite/Coal



Domestic Lignite Production. Domestic lignite production came from two major sources – one was from the mines belonging to the Electricity Generating Authority of Thailand (EGAT) and the other was from mines belonging to private producers. EGAT's sources comprised the production from Mae Moh mine in Lampang province (in northern Thailand) and Krabi mine in Krabi province (in the South of the country). Lignite produced from Mae Moh mine would be entirely used as fuel for power generation at Mae Moh Power Plant while that from Krabi mine would serve the demand in the industrial sector. However, the production at Krabi mine had diminished substantially in output and was eventually discontinued in 2008.

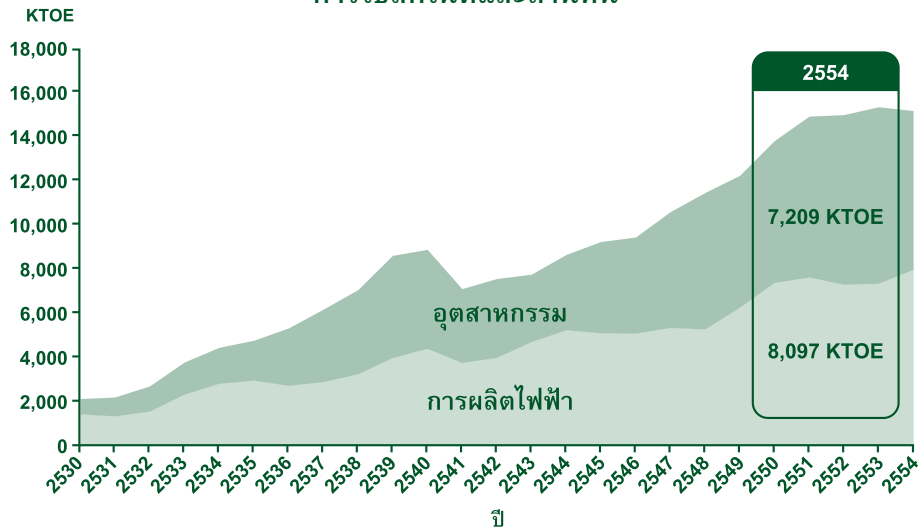
As for lignite production from the mines of private producers, the production volume gradually dropped off because major domestic lignite concessions expired one after another. Most of the lignite produced from private sector mines was used in such industries as cement, paper, food and textile.



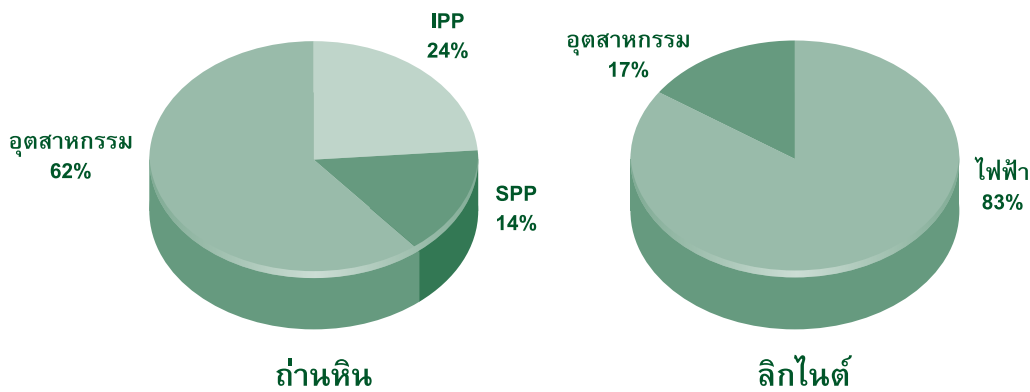
Lignite and Coal Consumption. In 2011, the share of coal/lignite consumption as fuel in the power generation sector was almost at the same level as that in the industrial sector (based on the calorific value). Coal demand in the industrial sector was growing, mainly by clinker production and industries using boilers.

Lignite was mainly used for power generation, accounting for a share of 28%; the remaining 6% was used in the industrial sector. As for coal, 16% was used as fuel in power generation by Independent Power Producers (IPP), 9% by Small Power Producers (SPP), and 41% was used as fuel in the industrial sector.

การใช้ลิกไนต์และถ่านหิน

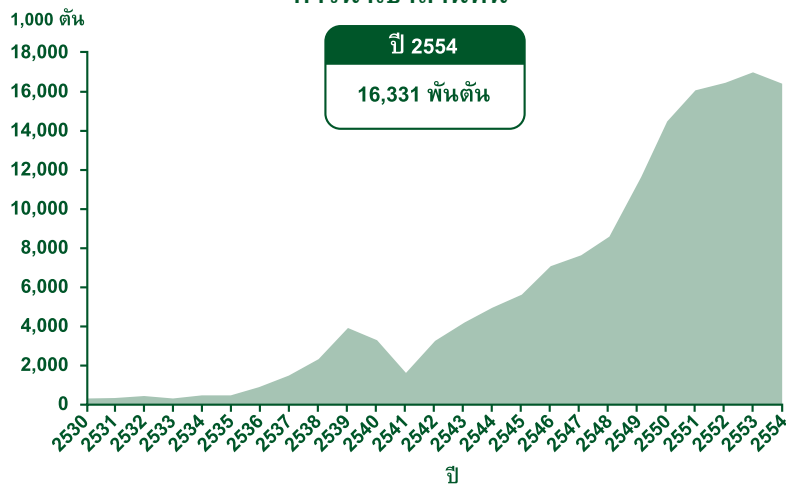


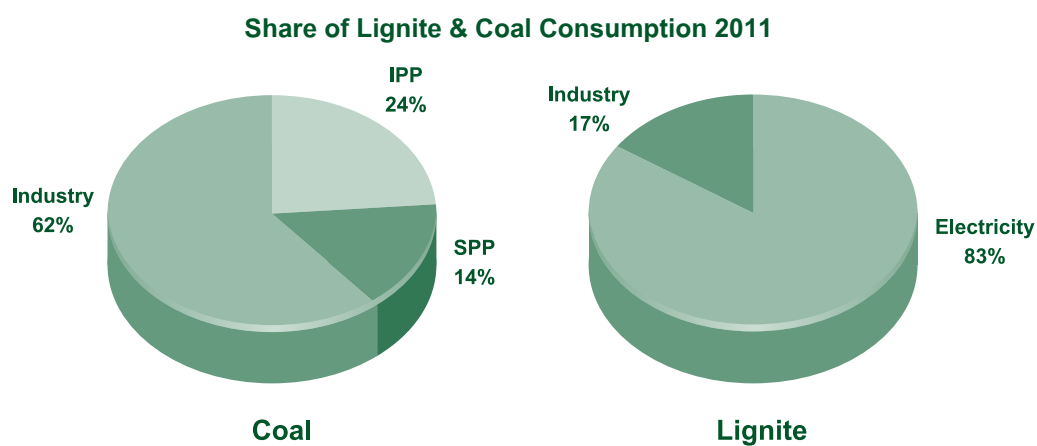
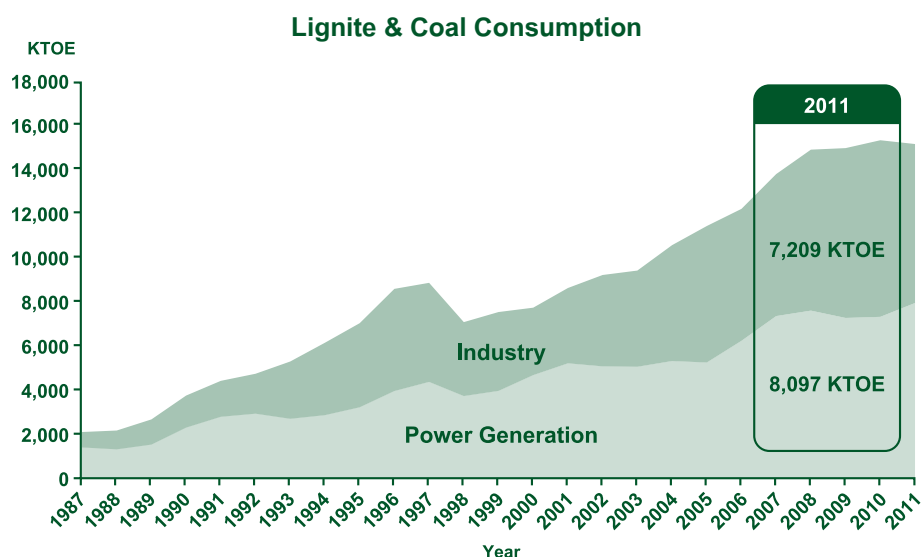
สัดส่วนการใช้ลิกไนต์และถ่านหินในปี 2554



การนำเข้าถ่านหิน ถ่านหินนำเข้าที่ใช้ในประเทศส่วนใหญ่เป็นถ่านหินประเภท Sub-Bituminous และ Bituminous มีเพียงเล็กน้อยที่เป็นถ่านหินประเภท Anthracite และ Briquettes โดยถ่านหินนำเข้า (Sub-Bituminous) จะมีค่าความร้อนตั้งแต่ 5,000-6,000 กิโลแคลอรีต่อกิโลกรัม ทั้งนี้ปริมาณการนำเข้าถ่านหินมีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่อง สาเหตุจากแหล่งสัมปทานลิกไนต์ภายในประเทศทยอยหมดและราคาถ่านหินถูกกว่าเมื่อเทียบกับพลังงานชนิดอื่น

การนำเข้าถ่านหิน





Coal Import. Most of imported coal used in Thailand is of sub-bituminous and bituminous categories; only a small amount is anthracite and briquette. The calorific or heating value of imported coal (sub-bituminous) will be in a range of 5,000-6,000 kilocalories per kilogram (kcal/kg). The amount of coal imports increased continuously because domestic lignite concessions came to expiry one after another and because the price of coal was cheaper when compared with other energy types.

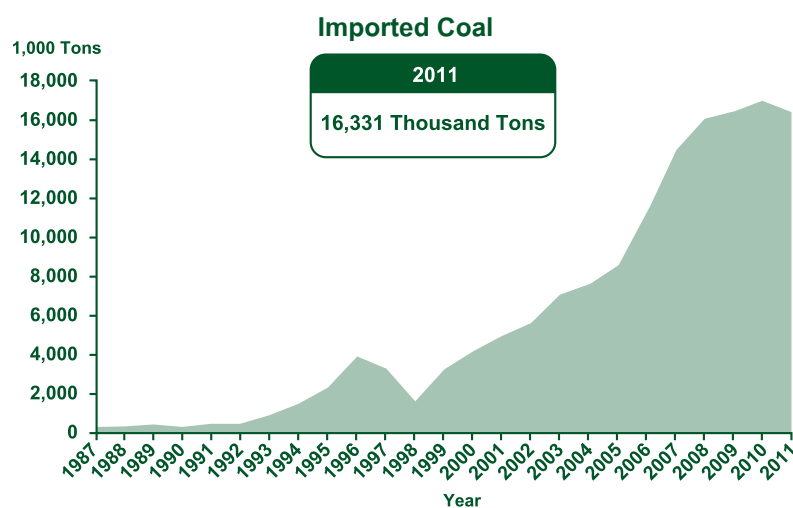


Table 4.1-1Y
Production and Consumption of Lignite

Unit : Ton

Year	EGAT				Total EGAT		Others		Nationwide	
	Mae-Moh		Krabi		Production	Consumption	Production	Consumption	Production	Consumption
1987	5,564,537	6,061,426	191,000	183,695	5,755,537	6,245,120	1,175,721	1,056,771	6,931,257	7,301,891
1988	5,717,250	5,681,773	237,396	213,979	5,954,646	5,895,752	1,340,413	1,316,064	7,295,059	7,211,816
1989	6,541,191	6,545,093	318,585	219,113	6,859,776	6,764,205	2,150,146	1,799,380	9,009,922	8,563,586
1990	9,652,991	9,619,614	156,262	255,710	9,809,254	9,875,324	2,629,219	2,600,686	12,438,473	12,476,010
1991	11,513,775	11,504,708	242,699	219,983	11,756,475	11,724,691	2,889,540	2,934,445	14,646,015	14,659,135
1992	11,844,352	12,129,274	253,950	241,265	12,098,302	12,370,539	3,290,259	3,193,113	15,388,561	15,563,652
1993	11,221,088	11,239,942	211,800	249,845	11,432,888	11,489,787	4,105,039	4,222,966	15,537,927	15,712,753
1994	11,906,553	11,908,173	225,065	247,711	12,131,618	12,155,884	4,963,253	4,897,708	17,094,871	17,053,592
1995	13,191,880	13,374,488	144,232	193,006	13,336,112	13,567,494	5,084,686	4,939,136	18,420,798	18,506,630
1996	16,381,301	16,405,340			16,381,301	16,405,340	5,309,093	4,688,467	21,690,394	21,093,807
1997	17,692,415	18,010,806			17,692,415	18,010,806	5,746,141	5,235,659	23,438,556	23,246,465
1998	14,419,327	15,388,095			14,419,327	15,388,095	5,576,868	5,029,499	19,996,195	20,417,594
1999	12,021,265	13,893,584			12,021,265	13,893,584	6,240,043	4,610,512	18,261,308	18,504,096
2000	13,621,615	14,120,569	30,000		13,651,615	14,120,569	4,134,132	3,722,528	17,785,747	17,843,097
2001	15,314,436	15,744,116	133,000		15,447,436	15,744,116	4,159,559	3,753,746	19,606,995	19,497,862
2002	14,994,739	15,035,329	187,000		15,181,739	15,035,329	4,420,245	4,503,816	19,601,984	19,539,145
2003	15,591,841	15,406,532	146,000		15,737,841	15,406,532	3,105,554	2,753,039	18,843,395	18,159,621
2004	16,561,572	16,536,694	95,888		16,657,460	16,536,694	3,402,404	4,006,701	20,059,844	20,543,395
2005	16,534,142	16,571,091	36,522		16,570,664	16,571,091	4,307,512	4,475,747	20,878,176	21,046,838
2006	15,763,798	15,815,374	56,000		15,819,798	15,815,374	3,250,810	3,036,746	19,070,608	18,852,120
2007	16,117,809	15,811,050	27,112		16,144,921	15,811,050	2,094,255	2,159,379	18,239,176	17,970,429
2008	16,420,847	16,407,465	23,248		16,444,095	16,407,465	1,651,290	2,124,087	18,095,385	18,531,552
2009	15,631,766	15,818,265			15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794
2010	15,987,263	16,004,196			15,987,263	16,004,196	2,270,799	2,017,685	18,258,062	18,021,881
2011	17,558,336	17,161,168			17,558,336	17,161,168	3,768,770	1,806,990	21,327,106	18,968,158

Source : Department of Primary Industry and Mines (DPIM)

Table 4.1-2Y
Consumption of Lignite and Coal Classified by Sector

Unit : 1,000 Tons

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1987			312	312	6,245	1,057	7,302	6,245	1,368	7,613
1988			361	361	5,896	1,316	7,212	5,896	1,677	7,573
1989			455	455	6,764	1,799	8,564	6,764	2,254	9,019
1990			341	341	9,875	2,601	12,476	9,875	2,942	12,817
1991			470	470	11,856	2,804	14,659	11,856	3,273	15,129
1992			501	501	12,423	3,141	15,564	12,423	3,641	16,065
1993			936	936	11,490	4,223	15,713	11,490	5,159	16,649
1994			1,519	1,519	12,156	4,898	17,054	12,156	6,417	18,573
1995		12	2,335	2,347	13,567	4,939	18,507	13,579	7,275	20,854
1996		66	3,840	3,906	16,405	4,688	21,094	16,472	8,528	25,000
1997		92	3,197	3,289	18,011	5,236	23,246	18,103	8,432	26,535
1998		105	1,528	1,633	15,388	5,030	20,418	15,493	6,558	22,051
1999		1,073	2,205	3,278	13,894	4,611	18,504	14,966	6,816	21,782
2000		2,130	2,053	4,183	14,121	3,723	17,843	16,251	5,776	22,026
2001		2,342	2,603	4,945	15,744	3,754	19,498	18,086	6,357	24,443
2002		2,402	3,197	5,599	15,035	4,504	19,539	17,438	7,700	25,138
2003		2,225	4,885	7,110	15,407	2,753	18,160	17,632	7,638	25,270
2004		2,194	5,356	7,550	16,537	4,007	20,543	18,731	9,363	28,093
2005		2,073	6,495	8,568	16,571	4,476	21,047	18,644	10,971	29,615
2006	1,476	2,473	7,265	11,215	15,815	3,037	18,852	19,765	10,302	30,067
2007	3,697	2,051	8,665	14,414	15,811	2,159	17,970	21,559	10,825	32,384
2008	3,666	2,241	10,072	15,979	16,407	2,124	18,532	22,315	12,196	34,511
2009	3,645	1,965	10,778	16,388	15,818	2,043	17,861	21,428	12,821	34,248
2010	3,647	1,968	11,289	16,904	16,004	2,018	18,022	21,619	13,307	34,926
2011	3,855	2,308	10,169	16,331	17,161	1,807	18,968	23,324	11,976	35,299
Fuel Share (%)										
1987			4.1	4.1	82.0	13.9	95.9	82.0	18.0	100.0
1988			4.8	4.8	77.9	17.4	95.2	77.9	22.2	100.0
1989			5.1	5.1	75.0	20.0	95.0	75.0	25.0	100.0
1990			2.7	2.7	77.1	20.3	97.3	77.1	23.0	100.0
1991			3.1	3.1	78.4	18.5	96.9	78.4	21.6	100.0
1992			3.1	3.1	77.3	19.6	96.9	77.3	22.7	100.0
1993			5.6	5.6	69.0	25.4	94.4	69.0	31.0	100.0
1994			8.2	8.2	65.5	26.4	91.8	65.5	34.6	100.0
1995		0.1	11.2	11.3	65.1	23.7	88.7	65.1	34.9	100.0
1996		0.3	15.4	15.6	65.6	18.8	84.4	65.9	34.1	100.0
1997		0.4	12.1	12.4	67.9	19.7	87.6	68.2	31.8	100.0
1998		0.5	6.9	7.4	69.8	22.8	92.6	70.3	29.7	100.0
1999		4.9	10.1	15.1	63.8	21.2	85.0	68.7	31.3	100.0
2000		9.7	9.3	19.0	64.1	16.9	81.0	73.8	26.2	100.0
2001		9.6	10.7	20.2	64.4	15.4	79.8	74.0	26.0	100.0
2002		9.6	12.7	22.3	59.8	17.9	77.7	69.4	30.6	100.0
2003		8.8	19.3	28.1	61.0	10.9	71.9	69.8	30.2	100.0
2004		7.8	19.1	26.9	58.9	14.3	73.1	66.7	33.3	100.0
2005		7.0	21.9	28.9	56.0	15.1	71.1	63.0	37.0	100.0
2006	4.9	8.2	24.2	37.3	52.6	10.1	62.7	65.7	34.3	100.0
2007	11.4	6.3	26.8	44.5	48.8	6.7	55.5	66.6	33.4	100.0
2008	10.6	6.5	29.2	46.3	47.5	6.2	53.7	64.7	35.3	100.0
2009	10.6	5.7	31.5	47.9	46.2	6.0	52.2	62.6	37.4	100.0
2010	10.4	5.6	32.3	48.4	45.8	5.8	51.6	61.9	38.1	100.0
2011	10.9	6.5	28.8	46.3	48.6	5.1	53.7	66.1	33.9	100.0
Growth Rate(%)										
1988			15.9	15.9	-5.6	24.5	-1.2	-5.6	22.6	-0.5
1989			26.0	26.0	14.7	36.7	18.7	14.7	34.4	19.1
1990			-25.1	-25.1	46.0	44.5	45.7	46.0	30.5	42.1
1991			37.7	37.7	20.1	7.8	17.5	20.1	11.3	18.0
1992			6.7	6.7	4.8	12.0	6.2	4.8	11.3	6.2
1993			86.8	86.8	-7.5	34.5	1.0	-7.5	41.7	3.6
1994			62.4	62.4	5.8	16.0	8.5	5.8	24.4	11.6
1995			53.7	54.5	11.6	0.9	8.5	11.7	13.4	12.3
1996		466.9	64.4	66.4	20.9	-5.1	14.0	21.3	17.2	19.9
1997		38.9	-16.7	-15.8	9.8	11.7	10.2	9.9	-1.1	6.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-12.2	-14.4	-22.2	-16.9
1999		923.1	44.3	100.7	-9.7	-8.3	-9.4	-3.4	3.9	-1.2
2000		98.5	-6.9	27.6	1.6	-19.3	-3.6	8.6	-15.3	1.1
2001		10.0	26.8	18.2	11.5	0.8	9.3	11.3	10.1	11.0
2002		2.6	22.8	13.2	-4.5	20.0	0.2	-3.6	21.1	2.8
2003		-7.4	52.8	27.0	2.5	-38.9	-7.1	1.1	-0.8	0.5
2004		-1.4	9.6	6.2	7.3	45.5	13.1	6.2	22.6	11.2
2005		-5.5	21.3	13.5	0.2	11.7	2.5	-0.5	17.2	5.4
2006		19.3	11.9	30.9	-4.6	-32.2	-10.4	6.0	-6.1	1.5
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-4.7	9.1	5.1	7.7
2008	-0.8	9.3	16.2	10.9	3.8	-1.6	3.1	3.5	12.7	6.6
2009	-0.6	-12.3	7.0	2.6	-3.6	-3.8	-3.6	-4.0	5.1	-0.8
2010	0.1	0.2	4.7	3.2	1.2	-1.2	0.9	0.9	3.8	2.0
2011	5.7	17.2	-9.9	-3.4	7.2	-10.4	5.3	7.9	-10.0	1.1

Remarks IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.1-3Y
Consumption of Lignite and Coal Classified by Sector

Unit : KTOE

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1987			194	194	1,547	504	2,051	1,547	699	2,245
1988			225	225	1,460	628	2,088	1,460	853	2,314
1989			284	284	1,675	858	2,534	1,675	1,142	2,818
1990			213	213	2,446	1,241	3,687	2,446	1,453	3,899
1991			293	293	2,937	1,337	4,274	2,937	1,630	4,567
1992			313	313	3,077	1,498	4,575	3,077	1,811	4,888
1993			584	584	2,846	2,014	4,860	2,846	2,598	5,444
1994			948	948	3,011	2,336	5,347	3,011	3,284	6,296
1995		7	1,458	1,465	3,361	2,356	5,717	3,368	3,814	7,182
1996		41	2,397	2,438	4,064	2,236	6,300	4,105	4,633	8,738
1997		57	1,995	2,053	4,461	2,497	6,959	4,519	4,493	9,012
1998		65	954	1,019	3,812	2,399	6,211	3,877	3,353	7,230
1999		670	1,376	2,046	3,441	2,199	5,641	4,111	3,576	7,687
2000		1,330	1,282	2,611	3,498	1,776	5,273	4,827	3,057	7,884
2001		1,462	1,625	3,087	3,900	1,791	5,690	5,362	3,415	8,777
2002		1,499	1,995	3,495	3,724	2,148	5,873	5,224	4,144	9,367
2003		1,389	3,049	4,438	3,816	1,313	5,129	5,205	4,362	9,568
2004		1,370	3,343	4,713	4,096	1,911	6,007	5,466	5,254	10,720
2005		1,294	4,054	5,348	4,105	2,135	6,240	5,399	6,189	11,587
2006	922	1,544	4,535	7,000	3,917	1,449	5,366	6,383	5,983	12,366
2007	2,308	1,280	5,409	8,997	3,916	1,030	4,946	7,504	6,439	13,943
2008	2,288	1,399	6,287	9,974	4,064	1,013	5,077	7,751	7,300	15,051
2009	2,275	1,226	6,728	10,229	3,918	974	4,892	7,419	7,702	15,121
2010	2,276	1,229	7,047	10,551	3,964	962	4,927	7,469	8,009	15,478
2011	2,406	1,440	6,347	10,194	4,251	862	5,113	8,097	7,209	15,306
Fuel Share (%)										
1987			8.7	8.7	68.9	22.5	91.3	68.9	31.1	100.0
1988			9.7	9.7	63.1	27.1	90.3	63.1	36.9	100.0
1989			10.1	10.1	59.5	30.5	89.9	59.5	40.5	100.0
1990			5.5	5.5	62.7	31.8	94.5	62.7	37.3	100.0
1991			6.4	6.4	64.3	29.3	93.6	64.3	35.7	100.0
1992			6.4	6.4	63.0	30.7	93.6	63.0	37.0	100.0
1993			10.7	10.7	52.3	37.0	89.3	52.3	47.7	100.0
1994			15.1	15.1	47.8	37.1	84.9	47.8	52.2	100.0
1995		0.1	20.3	20.4	46.8	32.8	79.6	46.9	53.1	100.0
1996		0.5	27.4	27.9	46.5	25.6	72.1	47.0	53.0	100.0
1997		0.6	22.1	22.8	49.5	27.7	77.2	50.1	49.9	100.0
1998		0.9	13.2	14.1	52.7	33.2	85.9	53.6	46.4	100.0
1999		8.7	17.9	26.6	44.8	28.6	73.4	53.5	46.5	100.0
2000		16.9	16.3	33.1	44.4	22.5	66.9	61.2	38.8	100.0
2001		16.7	18.5	35.2	44.4	20.4	64.8	61.1	38.9	100.0
2002		16.0	21.3	37.3	39.8	22.9	62.7	55.8	44.2	100.0
2003		14.5	31.9	46.4	39.9	13.7	53.6	54.4	45.6	100.0
2004		12.8	31.2	44.0	38.2	17.8	56.0	51.0	49.0	100.0
2005		11.2	35.0	46.2	35.4	18.4	53.9	46.6	53.4	100.0
2006	7.5	12.5	36.7	56.6	31.7	11.7	43.4	51.6	48.4	100.0
2007	16.6	9.2	38.8	64.5	28.1	7.4	35.5	53.8	46.2	100.0
2008	15.2	9.3	41.8	66.3	27.0	6.7	33.7	51.5	48.5	100.0
2009	15.0	8.1	44.5	67.7	25.9	6.4	32.4	49.1	50.9	100.0
2010	14.7	7.9	45.5	68.2	25.6	6.2	31.8	48.3	51.7	100.0
2011	15.7	9.4	41.5	66.6	27.8	5.6	33.4	52.9	47.1	100.0
Growth Rate(%)										
1988			15.9	15.9	-5.6	24.5	1.8	-5.6	22.1	3.0
1989			26.0	26.0	14.7	36.7	21.3	14.7	33.9	21.8
1990			-25.1	-25.1	46.0	44.5	45.5	46.0	27.2	38.4
1991			37.7	37.7	20.1	7.8	15.9	20.1	12.2	17.1
1992			6.7	6.7	4.8	12.0	7.1	4.8	11.1	7.0
1993			86.8	86.8	-7.5	34.5	6.2	-7.5	43.5	11.4
1994			62.4	62.4	5.8	16.0	10.0	5.8	26.4	15.6
1995			53.7	54.5	11.6	0.9	6.9	11.9	16.1	14.1
1996		466.9	64.4	66.4	20.9	-5.1	10.2	21.9	21.5	21.7
1997		38.9	-16.7	-15.8	9.8	11.7	10.5	10.1	-3.0	3.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-10.8	-14.2	-25.4	-19.8
1999		923.1	44.3	100.7	-9.7	-8.3	-9.2	6.0	6.6	6.3
2000		98.5	-6.9	27.6	1.6	-19.3	-6.5	17.4	-14.5	2.6
2001		10.0	26.8	18.2	11.5	0.8	7.9	11.1	11.7	11.3
2002		2.6	22.8	13.2	-4.5	20.0	3.2	-2.6	21.3	6.7
2003		-7.4	52.8	27.0	2.5	-38.9	-12.7	-0.4	5.3	2.1
2004		-1.4	9.6	6.2	7.3	45.5	17.1	5.0	20.4	12.0
2005		-5.5	21.3	13.5	0.2	11.7	3.9	-1.2	17.8	8.1
2006		19.3	11.9	30.9	-4.6	-32.2	-14.0	18.2	-3.3	6.7
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-7.8	17.6	7.6	12.8
2008	-0.8	9.3	16.2	10.9	3.8	-1.6	2.7	3.3	13.4	8.0
2009	-0.6	-12.3	7.0	2.6	-3.6	-3.8	-3.6	-4.3	5.5	0.5
2010	0.1	0.2	4.7	3.2	1.2	-1.2	0.7	0.7	4.0	2.4
2011	5.7	17.2	-9.9	-3.4	7.2	-10.4	3.8	8.4	-10.0	-1.1

Remarks IPP : Independent Power Producers

SPP : Small Power Producers

EGAT : Electricity Generating Authority of Thailand

Table 4.2-1Y
Coal Import

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Briquettes												
- Quantity (1,000 Tons)		0.02	0.05	0.03	0.06	0.20	3.06	0.05	0.04	0.02	0.01	0.03
- Value (Million Bahts)		0.08	0.44	0.29	0.50	0.16	1.18	0.55	0.31	0.39	0.58	0.20
Anthracite												
- Quantity (1,000 Tons)	4.18	4.92	7.92	12.89	18.78	1.57	3.63	1.18	5.08	46.16	8.09	23.10
- Value (Million Bahts)	11.52	16.83	24.42	28.50	32.33	3.94	11.68	4.68	13.45	63.62	27.24	47.31
Coal Solid Fuels from Coal												
- Quantity (1,000 Tons)	250.23	287.38	362.49	236.72	366.14	438.70	867.57	1,408.15	2,244.85	3,733.61	3,191.91	1,521.42
- Value (Million Bahts)	246.99	286.10	526.84	330.46	377.03	424.75	805.85	1,345.23	1,833.53	3,485.59	3,427.83	1,629.55
Peat												
- Quantity (1,000 Tons)	0.00				0.01				0.25	0.74	1.27	1.07
- Value (Million Bahts)	0.07				0.06				1.53	5.98	6.28	6.76
Coke of Coal												
- Quantity (1,000 Tons)	57.09	68.76	84.57	91.25	84.43	60.39	61.50	109.84	96.95	125.30	87.48	87.38
- Value (Million Bahts)	183.34	212.61	312.30	286.52	308.75	220.39	200.71	368.59	325.56	429.56	350.98	384.35
Total												
- Quantity (1,000 Tons)	311.50	361.08	455.03	340.90	469.42	500.85	935.76	1,519.21	2,347.16	3,905.84	3,288.78	1,632.98
- Value (Million Bahts)	441.92	515.62	863.99	645.77	718.66	649.23	1,019.42	1,719.06	2,174.40	3,985.25	3,813.12	2,068.16

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)

Table 4.2-1Y (Cont.)
Coal Import

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Briquettes													
- Quantity (1,000 Tons)	0.00			0.00		0.02	0.02	0.03	50.13	0.01	0.00	0.00	
- Value (Million Bahts)	0.23	0.04	0.01	0.05	0.27	0.75	0.07	0.50	56.92	0.76	0.82	0.21	0.01
Anthracite													
- Quantity (1,000 Tons)	110.80	164.69	234.89	581.26	532.86	355.13	487.76	553.49	305.46	242.20	677.52	367.82	210.70
- Value (Million Bahts)	149.57	243.30	353.50	827.78	829.85	720.87	1,406.69	1,236.50	836.44	1,280.39	2,209.51	1,539.64	1,407.26
Coal Solid Fuels from Coal													
- Quantity (1,000 Tons)	3,079.53	3,933.74	4,651.04	4,944.07	6,509.00	7,124.40	8,006.40	10,550.96	13,777.60	15,679.32	15,587.41	16,319.89	16,002.60
- Value (Million Bahts)	3,507.49	4,472.65	6,810.36	6,485.58	8,106.07	10,520.27	13,166.66	17,014.32	24,769.55	34,089.44	33,448.03	34,834.61	39,179.19
Peat													
- Quantity (1,000 Tons)	1.21	1.67	2.23	2.85	3.82	4.03	3.16	4.13	214.29	4.88	6.36	7.77	9.64
- Value (Million Bahts)	7.51	8.82	13.35	18.74	28.45	31.80	25.67	29.39	3,329.67	45.04	52.75	64.69	81.71
Coke of Coal													
- Quantity (1,000 Tons)	86.34	83.10	57.06	70.65	64.75	66.39	70.96	45.48	66.32	52.59	117.54	208.73	108.16
- Value (Million Bahts)	344.98	342.88	312.16	540.16	405.16	1,001.56	822.98	487.50	663.81	1,040.38	1,224.22	2,921.98	1,667.53
Total													
- Quantity (1,000 Tons)	3,277.93	4,183.20	4,945.21	5,598.84	7,110.44	7,549.95	8,568.29	11,214.80	14,413.80	15,979.00	16,388.84	16,904.21	16,331.11
- Value (Million Bahts)	4,009.80	5,067.69	7,489.37	7,872.31	9,369.79	12,275.26	15,422.06	18,895.88	29,656.38	36,456.01	36,935.34	39,361.12	42,335.71

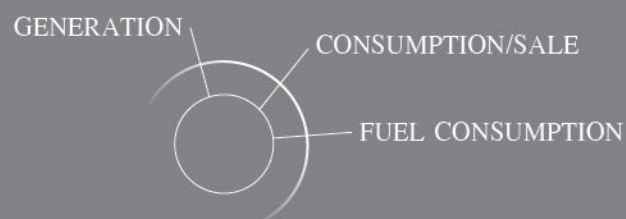
Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 5 ELECTRICITY

บทที่ 5
ไฟฟ้า



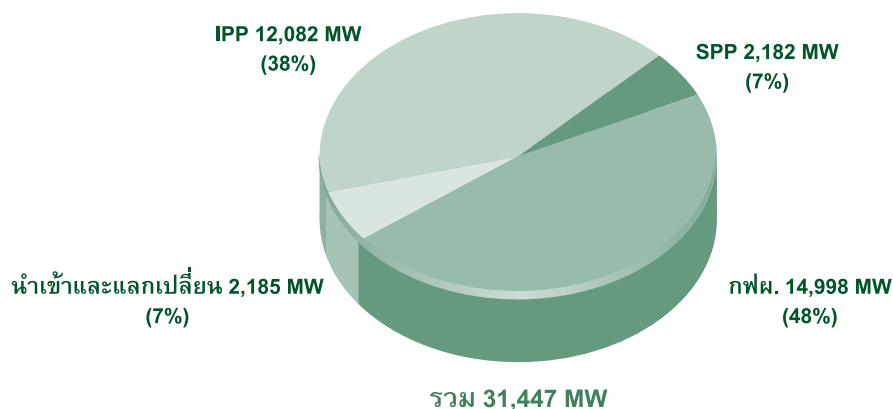


บทที่ 5 ไฟฟ้า

กำลังการผลิตติดตั้ง ในอดีตการผลิตไฟฟ้าของประเทศไทยมีการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) เป็นผู้ผลิตไฟฟ้าเพียงรายเดียว ต่อมารัฐบาลมีนโยบายให้เอกชนเข้ามามีส่วนร่วมในการผลิตไฟฟ้า เพื่อให้มีการแข่งขันด้านการผลิต ในปี 2537 จึงมีผู้ผลิตไฟฟ้าเอกชนรายใหญ่ (Independent Power Producer : IPP) และผู้ผลิตไฟฟ้าเอกชนรายเล็ก (Small Power Producers : SPP) เข้ามามีบทบาทในภาคการผลิตไฟฟ้า ทำให้เกิดการปรับปรุงประสิทธิภาพการผลิตและบริการ ในปัจจุบันได้ส่งเสริมให้มีการใช้พลังงานหมุนเวียนในการผลิตไฟฟ้า จึงมีผู้ผลิตไฟฟ้าขนาดเล็กมาก (Very Small Power Producer : VSPP) ที่ใช้พลังงานหมุนเวียนเป็นหลักเข้ามาในระบบ

ในปี 2554 มีกำลังการผลิตติดตั้งรวมทั้งสิ้น 31,447 เมกะวัตต์ เป็นการผลิตติดตั้งของ กฟผ. ร้อยละ 48 IPP ร้อยละ 38 และ SPP ร้อยละ 7 ซึ่งเป็นสัดส่วนที่เท่ากับนำเข้าจาก สปป.ลาว และแลกเปลี่ยนกับมาเลเซีย

กำลังการผลิตติดตั้ง
ณ เดือนธันวาคม 2554



การผลิตพลังงานไฟฟ้า มีแนวโน้มเพิ่มขึ้น ยกเว้นปี 2541 ซึ่งเกิดวิกฤตเศรษฐกิจทำให้ปริมาณการผลิตพลังงานไฟฟ้าของไทยลดลง โดยในปี 2554 การผลิตอยู่ที่ระดับ 162,343 กิกะวัตต์ชั่วโมง เป็นการผลิตไฟฟ้าจากก๊าซธรรมชาติร้อยละ 67 ถ่านหิน/ลิกไนต์ร้อยละ 19 นำเข้า/แลกเปลี่ยนไฟฟ้าและอื่น ๆ ร้อยละ 8 ไฟฟ้าพลังน้ำร้อยละ 5 และน้ำมันร้อยละ 1

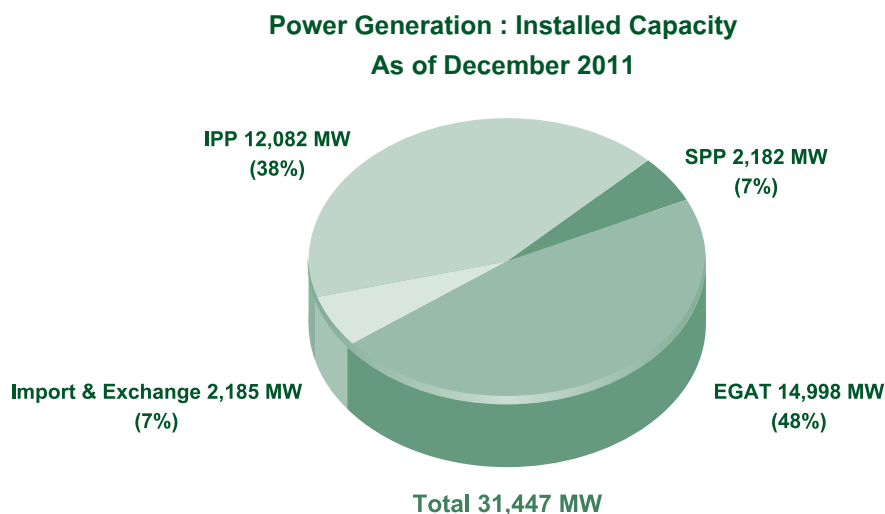
Chapter 5

Electricity



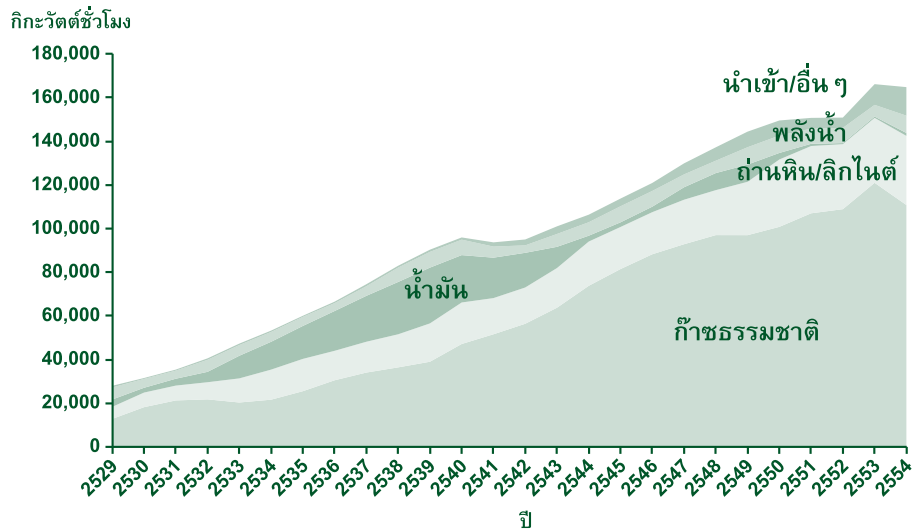
Installed Generating Capacity. In the past, the Electricity Generating Authority of Thailand (EGAT) was the sole power producer in Thailand. Later, the government had formulated a policy promoting the private sector role in the power generation sector in order to encourage competition in the generation business. As a result, since 1994, a number of Independent Power Producers (IPP) and Small Power Producers (SPP) have taken part in the power supply industry, resulting in improvement in power generation and service quality. Currently, promotion is being made on the use of renewable energy in power generation, resulting in a growing number of Very Small Power Producers (VSPP), using renewable energy as main fuel, supplying power to the grid.

In 2011, the total installed capacity stood at 31,447 MW, divided into the installed capacity of EGAT, 48%; IPP, 38%; SPP, 7%; and imported electricity from Lao PDR and exchange with Malaysia, 7%.

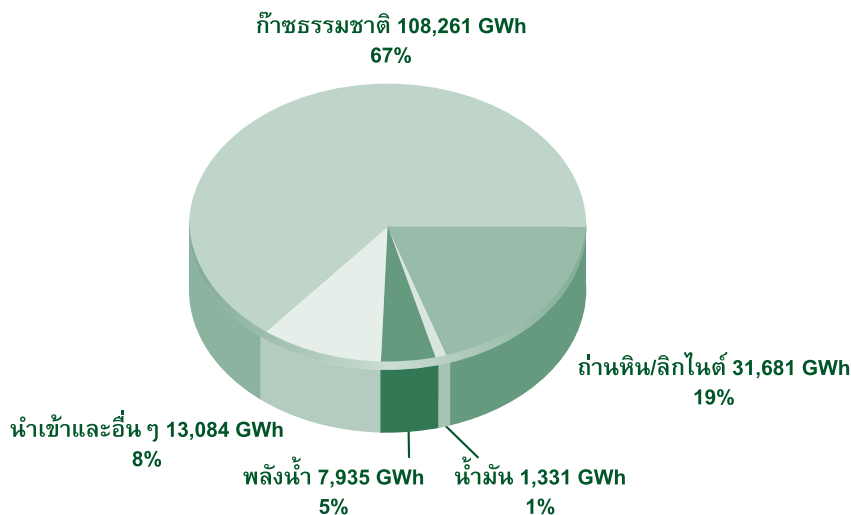


Electricity Generation. The electricity generation trend in Thailand has been on the rise, except for the year 1998 due to the economic crisis then causing the electricity generation to shrink during that period. In 2011, the generation was at a level of 162,343 gigawatt-hours (GWh), with the use of the following fuels: natural gas, 67%; coal/lignite, 19%; electricity import/exchange and others, 8%; hydropower, 5% and oil, 1%.

การผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ

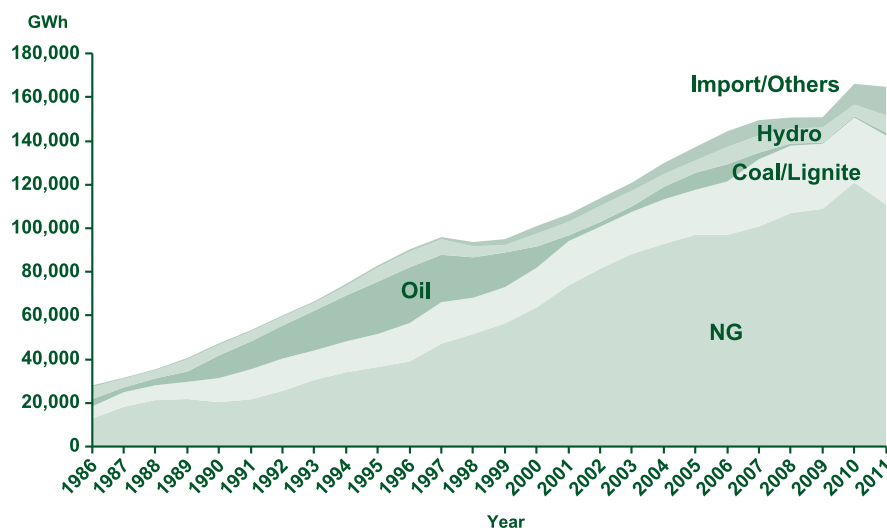


สัดส่วนการผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ ปี 2554

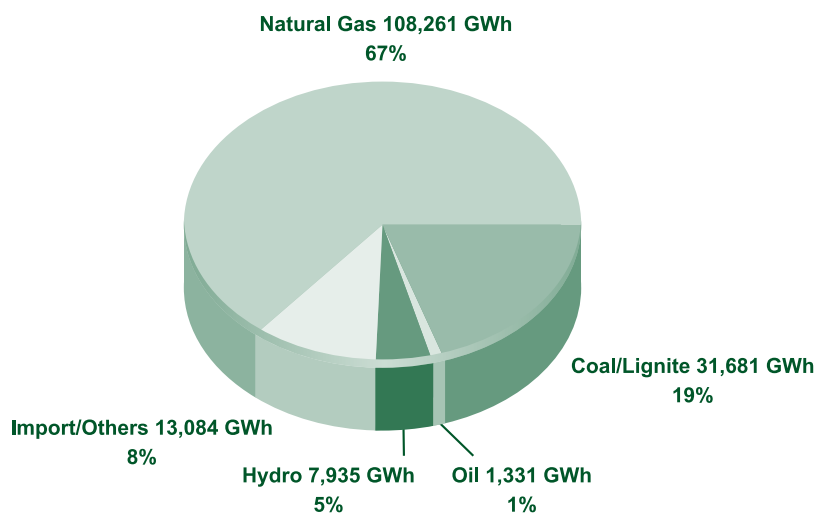


ความต้องการไฟฟ้าสูงสุด (Gross Peak Load) ในปี 2554 ความต้องการไฟฟ้าสูงสุดเกิดขึ้นเมื่อวันอังคารที่ 24 พฤษภาคม เวลา 14.00 น. อยู่ที่ระดับ 24,518 เมกะวัตต์ ต่ำกว่าความต้องการไฟฟ้าสูงสุดของปี 2553 ซึ่งเกิดขึ้นเมื่อวันจันทร์ที่ 10 พฤษภาคม เวลา 14.00 น. ที่ระดับ 24,630 เมกะวัตต์ อยู่ 112 เมกะวัตต์ หรือคิดเป็นลดลงร้อยละ 0.5 ส่วนค่าตัวประกอบการใช้ไฟฟ้าเฉลี่ย (Load Factor) ของปี 2554 อยู่ที่ระดับร้อยละ 75.6

Power Generation by Fuel Type

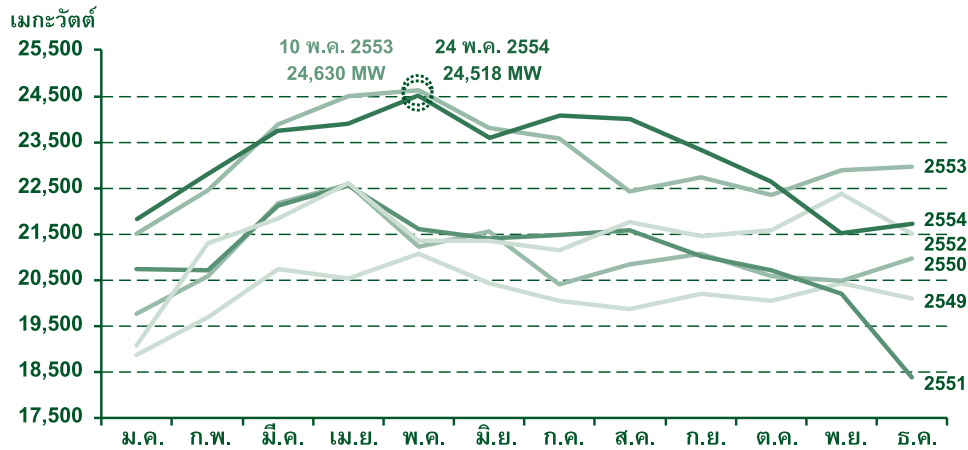


Share of Power Generation by Fuel Type in 2011



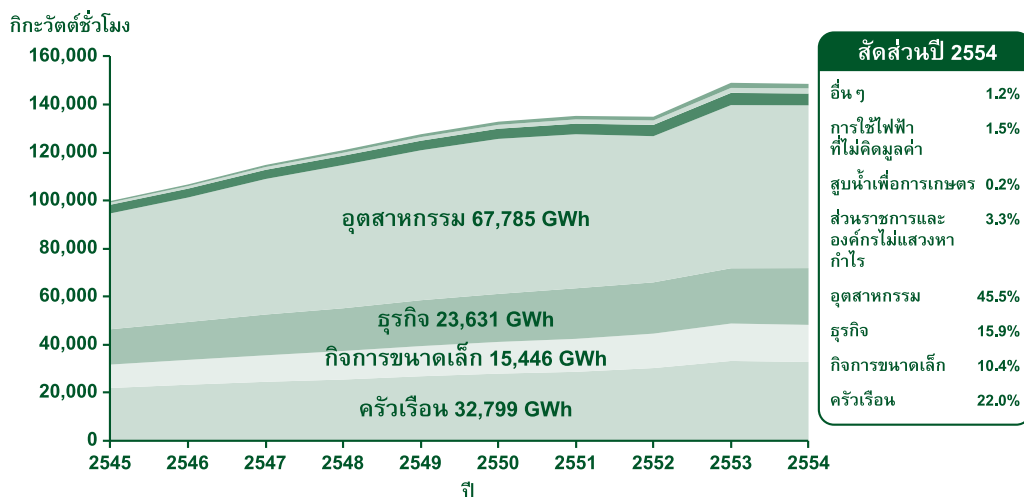
Gross Peak Load. The peak load in 2011 occurred on Tuesday, 24 May 2011, at 14.00 hrs., reaching 24,518 MW, accounting for 112 MW or 0.5% lower than that in 2010 which was at 24,630 MW on Monday, 10 May 2010, at 14.00 hrs. The average load factor in 2011 was at 75.6%.

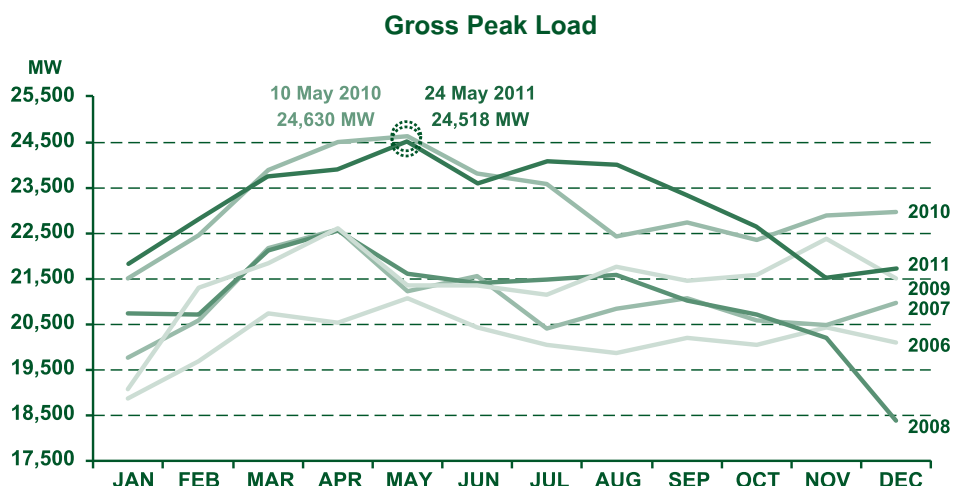
ความต้องการไฟฟ้าสูงสุด



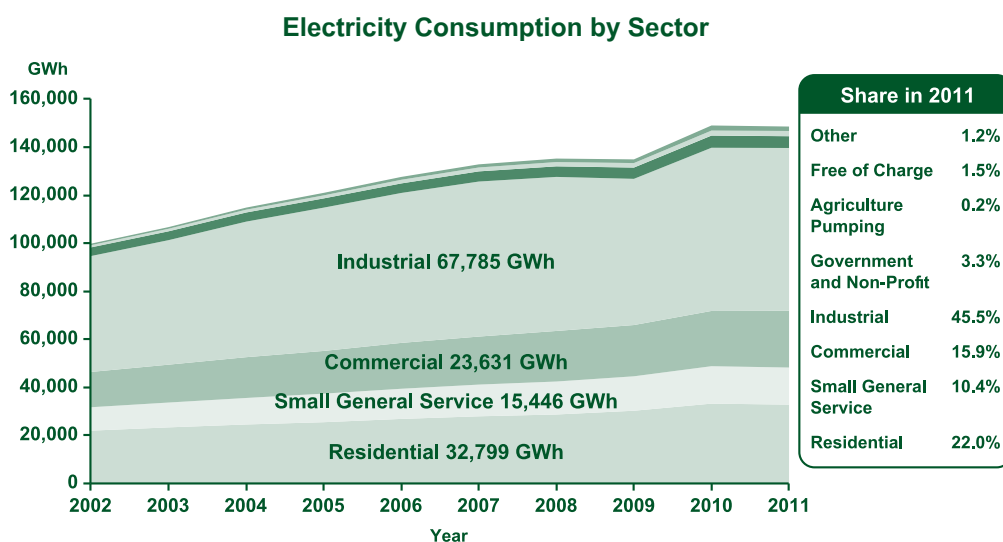
การใช้ไฟฟ้า ปริมาณการใช้ไฟฟ้ารายสาขาของไทยมีสัดส่วนใกล้เคียงกันกับในอดีตที่ผ่านมา โดยในปี 2554 การใช้ไฟฟ้ารวมทั้งประเทศลดลงเล็กน้อยในอัตราร้อยละ 0.3 เมื่อเทียบกับปีก่อน เนื่องจากในช่วงต้นปี มีอากาศที่หนาวเย็นต่อเนื่องเป็นเวลานาน ประกอบกับพื้นที่ตกมากกว่าปกติซึ่งส่งผลให้ในหลายปีเกิดปัญหา อุทกภัยในหลายพื้นที่ โดยมีปริมาณการใช้ไฟฟ้าอยู่ที่ระดับ 148,855 กิกะวัตต์ชั่วโมง สาขาที่มีสัดส่วนการใช้ไฟฟ้าสูงที่สุด คือ ภาคอุตสาหกรรมคิดเป็นร้อยละ 46 ของการใช้ไฟฟ้าทั่วประเทศ รองลงมาคือการใช้ไฟฟ้า ในภาคครัวเรือนคิดเป็นร้อยละ 22 และภาคธุรกิจคิดเป็นร้อยละ 16

การใช้ไฟฟ้ารายสาขา



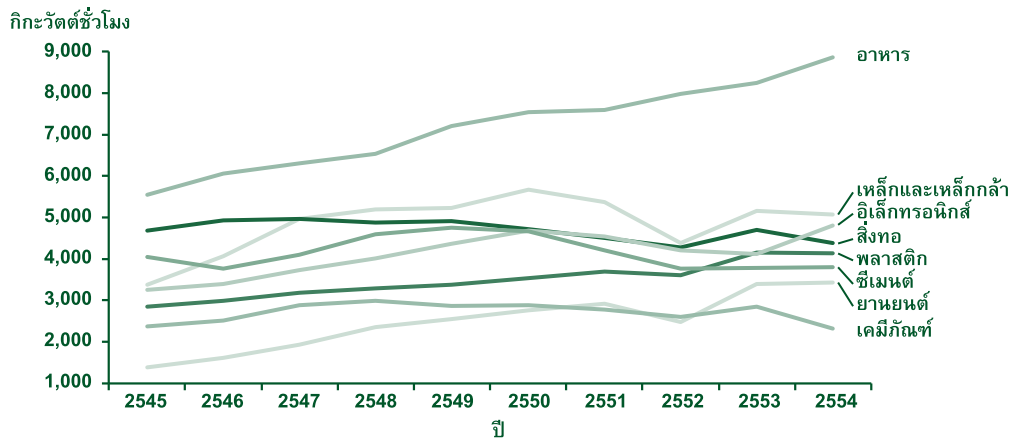


Electricity Consumption. The share of electricity consumption by sector in Thailand was similar to that in the past. In 2011, the total consumption of the country decreased by 0.3%, compared with that in the previous year, reaching the amount of 148,855 GWh, due to mild weather for along period of time and the heavy flood than ever in wide area, especially industrial area in central plain of Thailand. The economic sector accounting for the highest share of national electricity consumption was the industrial sector, holding a share of 46%; while the household and commercial sectors accounted for a share of 22% and 16% respectively.



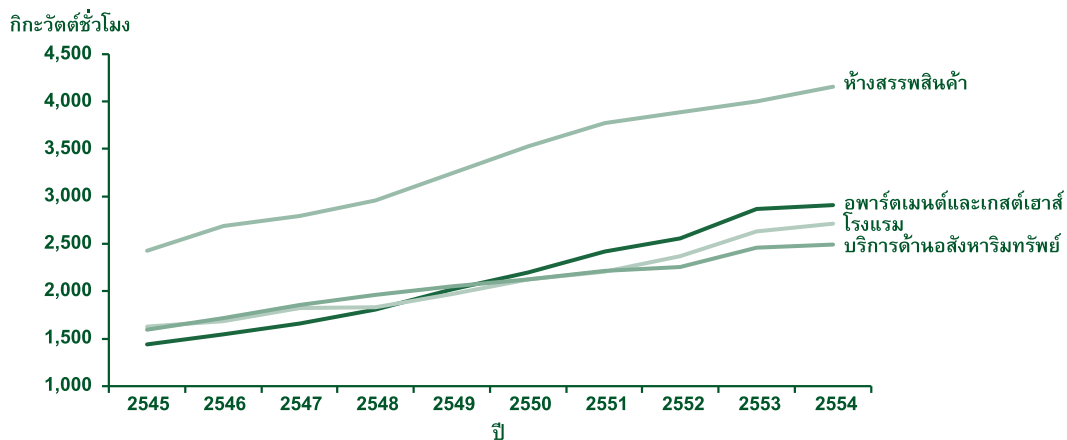
• **การใช้ไฟฟ้าในสาขาอุตสาหกรรมที่สำคัญ** การใช้ไฟฟ้าในอุตสาหกรรมส่วนใหญ่มีแนวโน้มเพิ่มขึ้นในช่วงปี 2545 ถึงปี 2550 หลังจากนั้นในช่วงปี 2551 ถึงปี 2552 มีแนวโน้มลดลง เนื่องจากภาวะเศรษฐกิจโลกที่ชะลอตัวลงประกอบกับภาวะความไม่มีเสถียรภาพทางการเมืองภายในประเทศไทย ต่อมาในปี 2553 การใช้ไฟฟ้าในสาขาอุตสาหกรรมส่วนใหญ่กลับมาเพิ่มสูงขึ้นอีกครั้ง ในปี 2554 การใช้ไฟฟ้าในอุตสาหกรรมส่วนใหญ่ค่อนข้างใกล้เคียงกับปีที่ผ่านมา ทั้งนี้ มีอุตสาหกรรมบางประเภทมีการใช้ไฟฟ้าลดลงเนื่องจากเหตุการณ์ภัยพิบัติในประเทศญี่ปุ่นและอุทกภัยในประเทศ

การใช้ไฟฟ้าในสาขาอุตสาหกรรม

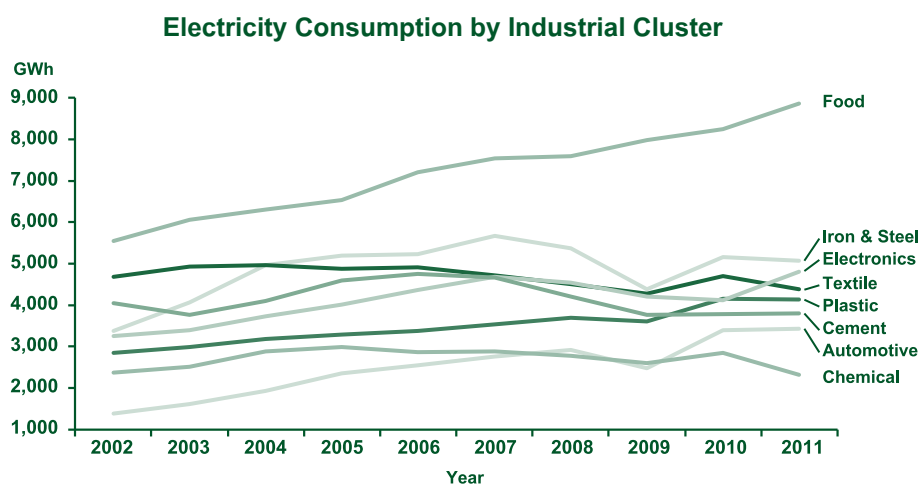


• **การใช้ไฟฟ้าในสาขาธุรกิจที่สำคัญ** การใช้ไฟฟ้าในสาขาธุรกิจส่วนใหญ่มีแนวโน้มเพิ่มขึ้นตั้งแต่ปี 2545 ถึงปี 2554 โดยในปี 2554 ธุรกิจที่มีการใช้ไฟฟ้าในสัดส่วนที่สูง ได้แก่ ห้างสรรพสินค้า อพาร์ทเมนต์และเกสต์เฮาส์ โรงแรม และบริการด้านอสังหาริมทรัพย์ ตามลำดับ

การใช้ไฟฟ้าในสาขาธุรกิจ



• **Electricity Demand in Major Industrial Clusters.** During 2002-2007, electricity demand in most industrial clusters was continuously on the rise. However, during 2008-2009, the trend dropped off due to the global economic slowdown coupled with the domestic political instability. In 2010, electricity demand in most industrial clusters hiked up again. However, in 2011, electricity demand in industrial sector was impacted to decline by Tsunami in Japan and a heavy flood in industrial area in Thailand.



• **Electricity Demand in Major Commercial Clusters.** Electricity demand in most commercial clusters continuously increased from 2002 to 2011. In 2011, the business & commerce that accounted for high electricity consumption were as follows: department stores, apartments & guest houses, hotels and real estate services, respectively.

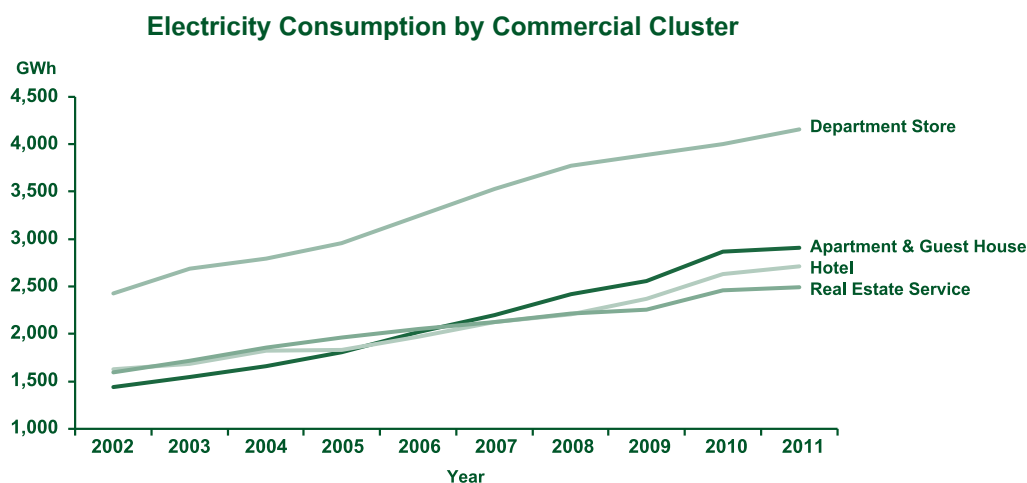


Table 5.1-1Y
Electricity Generation by Fuel Type

Unit : GWh

Year	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
1987	4,056.23	2,188.38	6,698.01	15,623.66	2.41			415.45	4.92			28,989.06
1988	3,718.17	3,142.03	6,799.50	18,719.88	3.47			429.78	30.19			32,843.02
1989	5,512.21	4,738.83	7,869.57	19,194.75	16.45			643.15	21.57			37,996.53
1990	4,900.11	10,012.63	11,052.85	17,765.06	356.85	1.01	0.02	652.32	23.98			44,764.83
1991	4,505.35	12,636.39	13,785.22	19,051.19	112.57	1.00	0.01	593.11	28.65			50,713.50
1992	4,158.94	14,928.92	14,815.05	22,943.04	161.34	1.12	0.02	479.90	19.71			57,508.05
1993	3,612.50	17,494.52	13,503.75	27,953.16	743.97	1.14	0.03	644.52	28.26			63,981.85
1994	4,403.60	19,647.18	14,130.91	30,920.18	1,385.18	0.90	0.04	870.82	36.52	13.30	564.63	71,973.25
1995	6,593.01	21,711.89	15,152.25	25,377.38	2,261.18	1.05	0.04	699.12	26.00	261.65	8,352.74	80,436.33
1996	7,215.00	20,983.73	17,507.17	24,722.17	4,572.36	1.19	0.17	805.61	26.17	1,232.93	10,730.73	87,797.24
1997	7,082.00	19,266.11	18,924.58	28,613.71	2,440.68	1.28	0.22	745.63	27.19	2,150.90	14,154.62	93,406.91
1998	5,088.82	17,534.10	16,475.24	32,702.16	988.97	1.30	0.24	1,622.71	14.61	3,191.85	13,535.73	91,155.72
1999	3,409.67	15,429.25	15,418.91	32,851.18	457.33	1.49	0.24	2,255.66	34.49	8,353.15	14,259.57	92,470.95
2000	5,891.44	9,611.42	15,852.17	35,642.22	107.95	1.65	0.33	2,966.25	25.64	10,175.54	18,212.92	98,487.52
2001	6,174.35	2,419.96	17,722.36	34,786.99	248.06	1.50	0.45	2,881.71	31.08	11,644.29	27,958.14	103,868.90
2002	7,366.94	1,969.39	16,651.86	35,251.60	150.98	1.44	0.31	2,812.18	31.71	12,548.25	34,469.23	111,253.87
2003	7,207.76	2,434.28	16,856.16	31,694.40	75.30	1.61	0.24	2,473.41	32.29	13,299.82	44,332.77	118,408.03
2004	5,896.29	5,467.67	17,993.55	30,901.10	232.95	1.26	0.87	3,377.85	25.50	13,440.60	50,172.86	127,510.51
2005	5,671.18	7,640.00	18,334.50	33,064.85	176.85	1.45	0.81	4,371.89	17.40	13,546.61	51,972.65	134,798.20
2006	7,950.05	7,808.44	18,027.68	33,962.67	76.92	1.72	0.84	5,151.85	44.79	13,530.95	55,362.65	141,918.57
2007	7,961.36	2,966.57	18,497.68	36,501.69	28.24	1.84	0.81	4,488.36	21.70	14,439.45	62,118.21	147,025.89
2008	6,950.69	990.08	18,679.30	37,260.98	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93
2009	6,965.74	448.23	17,922.09	41,761.02	45.07	1.41	1.86	2,451.41	24.04	13,902.10	64,840.71	148,363.68
2010	5,346.75	558.31	17,987.63	50,802.50	41.59	1.64	5.65	7,253.78	23.64	13,870.81	67,775.99	163,668.30
2011	7,934.92	1,294.89	18,835.63	45,863.42	35.98	1.82	6.22	10,774.41	35.47	14,934.42	62,625.97	162,343.14

Source : EGAT

Remarks : Power Generation from NG and Diesel Oil not Including REGCO'S generation since Dec, 1994

Table 5.1-2Y
Power Generation Classified by Fuel Type

Unit : GWh

Year	Natural Gas	Coal & Lignite		Oil		Hydro Electricity	Imported	Others	Total
		Lignite	Coal	Fuel Oil	Diesel				
1987	15,624	6,698		2,188	2	4,056	415	5	28,989
1988	18,720	6,800		3,142	3	3,718	430	30	32,843
1989	19,195	7,870		4,739	16	5,512	643	22	37,997
1990	17,765	11,053		10,013	357	4,900	652	25	44,765
1991	19,051	13,785		12,636	113	4,505	593	30	50,714
1992	22,943	14,815		14,929	161	4,159	480	21	57,508
1993	27,953	13,504		17,495	744	3,613	645	29	63,982
1994	31,485	14,131		19,647	1,385	4,404	871	51	71,973
1995	33,863	15,152	13	21,712	2,261	6,593	699	143	80,436
1996	36,433	17,507	73	20,984	4,572	7,215	806	207	87,797
1997	44,574	18,925	101	19,266	2,441	7,082	746	259	93,407
1998	49,021	16,475	115	17,534	989	5,089	1,623	271	91,156
1999	53,839	15,419	1,214	15,429	457	3,410	2,256	404	92,471
2000	61,186	15,852	2,345	9,611	108	5,891	2,966	495	98,488
2001	71,229	17,722	2,574	2,420	248	6,174	2,882	585	103,869
2002	78,910	16,652	2,640	1,969	151	7,367	2,812	715	111,254
2003	85,688	16,856	2,445	2,434	75	7,208	2,473	1,194	118,408
2004	90,289	17,994	2,411	5,468	233	5,896	3,378	1,680	127,511
2005	94,468	18,335	2,280	7,640	177	5,671	4,372	1,765	134,798
2006	94,439	18,028	6,441	7,808	77	7,950	5,152	1,996	141,919
2007	98,244	18,498	12,383	2,967	28	7,961	4,488	2,435	147,026
2008	104,458	18,679	12,158	990	23	6,951	2,784	2,151	148,221
2009	106,343	17,922	11,886	448	45	6,966	2,451	2,266	148,364
2010	118,438	17,988	11,776	558	42	5,347	7,254	2,247	163,668
2011	108,261	18,836	12,845	1,295	36	7,935	10,774	2,309	162,343

Source : EGAT

Table 5.1-3Y
Peak, Demand and Load Factor

Year	Peak* (MW)	Generation (GWh)	Load Factor (%)
1987	4,887	28,989	67.7
1988	5,444	32,843	68.7
1989	6,337	38,006	68.5
1990	7,221	44,765	70.8
1991	8,045	50,713	72.0
1992	8,904	57,509	73.5
1993	9,839	63,982	74.2
1994	11,064	71,973	74.3
1995	12,268	80,436	74.8
1996	13,311	87,797	75.1
1997	14,506	93,407	73.5
1998	14,180	91,156	73.4
1999	13,712	91,414	76.1
2000	14,918	98,487	75.2
2001	16,126	103,856	73.5
2002	16,681	111,256	76.1
2003	18,121	117,290	73.9
2004	19,326	127,511	75.1
2005	20,538	134,798	74.9
2006	21,064	141,919	76.9
2007	22,586	147,026	74.3
2008	22,568	148,264	74.8
2009	22,596	148,372	75.0
2010	24,630	163,660	75.9
2011	24,518	162,343	75.6

Source : EGAT

*Remark : 1) EGAT Gross Peak Generation from 1987-2008

2) Peak Estimation from EGAT (Net Peak) since 2009

Table 5.1-4Y
EGAT Purchased from SPP

Unit : GWh

Year	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
1994				13.30	13.30
1995	133.14	12.86		115.65	261.65
1996	980.44	72.90		179.59	1,232.93
1997	1,805.35	101.22	14.82	230.00	2,151.38
1998	2,783.25	115.24	38.42	254.95	3,191.85
1999	6,728.62	1,214.29	43.29	367.92	8,354.11
2000	7,331.08	2,345.17	32.13	467.17	10,175.54
2001	8,483.65	2,573.67	36.55	551.50	11,645.37
2002	9,189.42	2,639.65	37.36	681.59	12,548.01
2003	9,660.66	2,445.22	37.25	1,160.10	13,303.23
2004	9,215.09	2,410.93	162.18	1,652.11	13,440.30
2005	9,430.12	2,279.80	91.04	1,745.56	13,546.53
2006	9,168.70	2,385.14	28.35	1,948.76	13,530.95
2007	9,779.30	2,227.71	22.08	2,410.37	14,439.45
2008	9,873.57	2,015.89	26.72	2,120.25	14,036.43
2009	9,759.71	1,867.85	30.58	2,238.41	13,896.54
2010	9,895.45	1,740.59	19.06	2,215.71	13,870.81
2011	10,576.45	2,040.75	51.53	2,267.47	14,936.20

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5Y
EGAT Purchased from IPP

Unit : GWh

Year	Natural Gas (NG)	Coal / Lignite	Total
1994	564.63		564.63
1995	8,352.75		8,352.75
1996	10,730.73		10,730.73
1997	14,154.62		14,154.62
1998	13,535.72		13,535.72
1999	14,294.50		14,294.50
2000	18,303.59		18,303.59
2001	27,945.32		27,945.32
2002	33,595.91		33,595.91
2003	44,332.78		44,332.78
2004	50,172.66		50,172.66
2005	51,729.97		51,729.97
2006	51,307.08	4,055.56	55,362.65
2007	51,962.49	10,155.73	62,118.21
2008	57,323.36	10,142.45	67,465.82
2009	54,345.31	10,018.13	64,363.43
2010	57,740.20	10,035.79	67,775.98
2011	51,821.42	10,804.52	62,625.94

Table 5.2-1Y
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2002	431.08	7,195.81	7,626.88	8,025.50	12,114.33	1,596.15	1,213.70	0.00	0.00	0.00	0.00	181.19	35,780.97
2003	405.19	7,593.58	7,998.77	7,819.94	13,363.13	1,607.78	1,177.08	0.00	0.00	0.00	0.00	181.84	37,430.64
2004	413.06	7,921.56	8,334.63	8,050.86	14,120.77	1,658.92	1,200.01	0.00	0.00	0.00	0.00	188.10	39,119.39
2005	407.03	8,230.34	8,637.37	8,045.11	14,605.93	1,693.78	1,151.71	0.00	0.00	0.00	0.00	194.10	40,099.96
2006	411.35	8,667.81	9,079.16	8,061.22	15,189.57	1,729.67	1,175.48	0.00	0.00	0.00	0.00	208.18	41,482.28
2007	395.94	8,834.49	9,230.43	7,959.27	15,484.14	1,773.67	1,214.71	0.00	0.00	0.00	0.00	222.88	42,035.41
2008	399.63	8,981.78	9,381.42	7,913.50	15,394.02	1,809.30	1,250.78	0.00	0.00	0.00	0.00	233.80	42,235.91
2009	426.38	9,352.88	9,779.26	7,619.31	14,605.04	1,789.81	1,288.25	0.00	0.00	0.00	0.00	271.96	41,733.30
2010	416.35	10,299.58	10,715.93	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	0.00	312.71	45,060.16
2011	422.47	9,702.33	10,124.80	7,494.56	16,468.94	1,779.70	1,293.24	0.00	42.08	0.00	0.00	346.99	44,194.74
Growth Rate (%)													
2003	-6.00	5.53	4.88	-2.56	10.31	0.73	-3.02	0.00	0.00	0.00	0.00	0.36	4.61
2004	1.94	4.32	4.20	2.95	5.67	3.18	1.95	0.00	0.00	0.00	0.00	3.44	4.51
2005	-1.46	3.90	3.63	-0.07	3.44	2.10	-4.02	0.00	0.00	0.00	0.00	3.19	2.51
2006	1.06	5.32	5.11	0.20	4.00	2.12	2.06	0.00	0.00	0.00	0.00	7.25	3.45
2007	-3.74	1.92	1.67	-1.26	1.94	2.54	3.34	0.00	0.00	0.00	0.00	7.06	1.33
2008	0.93	1.67	1.64	-0.58	-0.58	2.01	2.97	0.00	0.00	0.00	0.00	4.90	0.48
2009	6.69	4.13	4.24	-3.72	-5.13	-1.08	3.00	0.00	0.00	0.00	0.00	16.32	-1.19
2010	-2.35	10.12	9.58	0.87	11.78	0.71	5.41	0.00	0.00	0.00	0.00	14.98	7.97
2011	1.47	-5.80	-5.52	-2.49	0.88	-1.27	-4.76	0.00	0.00	0.00	0.00	10.96	-1.92

Source : MEA

Table 5.2-2Y
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Year	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2002	6,429.75	7,906.54	14,336.29	11,046.12	25,839.86	1,574.57	2,421.48	192.13	396.62	10.00	1,159.01	778.09	62,481.72
2003	6,633.84	8,696.93	15,330.77	12,187.24	27,777.98	1,619.98	2,524.02	227.88	433.18	22.41	1,678.91	902.04	67,764.91
2004	6,898.03	9,305.66	16,203.70	12,056.22	32,376.37	1,800.53	2,614.47	250.76	495.29	41.78	1,817.95	995.99	74,120.22
2005	7,094.76	9,749.76	16,844.52	12,815.60	34,825.55	1,848.38	2,696.77	249.36	552.74	64.74	2,093.87	1,069.86	79,183.56
2006	7,285.05	10,483.18	17,768.23	14,145.57	36,628.50	2,075.60	2,803.58	240.02	610.50	152.93	2,110.77	1,327.84	84,383.01
2007	7,347.58	11,359.97	18,707.55	14,666.67	38,833.76	2,254.71	3,015.08	267.77	648.70	38.16	2,067.92	1,400.35	88,957.32
2008	7,404.77	11,905.03	19,309.80	14,793.40	39,603.55	2,425.15	3,140.78	281.46	689.34	92.84	1,789.21	1,543.63	91,145.76
2009	7,916.66	12,560.58	20,477.24	14,665.28	38,358.60	2,589.40	3,388.37	317.86	670.99	93.07	1,625.82	1,571.14	91,720.40
2010	8,119.97	14,380.59	22,500.56	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	82.09	1,642.39	1,720.98	102,470.08
2011	8,178.87	14,495.78	22,674.65	15,621.92	44,630.74	3,019.61	3,594.99	296.71	798.54	68.57	1,618.49	1,821.40	102,947.38
Growth Rate (%)													
2003	3.17	10.00	6.94	10.33	7.50	2.88	4.23	18.61	9.22	124.06	44.86	15.93	8.46
2004	3.98	7.00	5.69	-1.08	16.55	11.15	3.58	10.04	14.34	86.43	8.28	10.42	9.38
2005	2.85	4.77	3.95	6.30	7.56	2.66	3.15	-0.56	11.60	54.96	15.18	7.42	6.83
2006	2.68	7.52	5.48	10.38	5.18	12.29	3.96	-3.75	10.45	136.21	0.81	24.11	6.57
2007	0.86	8.36	5.29	3.68	6.02	8.63	7.54	11.56	6.26	-75.05	-2.03	5.46	5.42
2008	0.78	4.80	3.22	0.86	1.98	7.56	4.17	5.11	6.26	143.27	-13.48	10.23	2.46
2009	6.91	5.51	6.05	-0.87	-3.14	6.77	7.88	12.93	-2.66	0.24	-9.13	1.78	0.63
2010	2.57	14.49	9.88	9.52	14.71	13.82	8.95	5.48	13.54	-11.79	1.02	9.54	11.72
2011	0.73	0.80	0.77	-2.74	1.43	2.45	-2.61	-11.51	4.82	-16.47	-1.46	5.84	0.47

Source : PEA

Table 5.2-3Y
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Year	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total MEA+PEA	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh													
2002	6,860.83	15,102.35	21,963.17	9,750.76	19,071.62	37,954.18	3,170.72	3,635.18	192.13	336.62	10.00	1,159.01	959.29	98,262.69	100,091.04
2003	7,039.04	16,290.51	23,329.55	10,342.59	20,007.18	41,141.11	3,227.76	3,701.10	227.88	433.18	22.41	1,678.91	1,083.87	105,195.54	106,987.15
2004	7,311.09	17,227.23	24,538.32	11,033.28	20,107.08	46,497.14	3,459.45	3,814.47	250.76	495.29	41.78	1,817.95	1,184.09	113,239.61	115,101.11
2005	7,501.80	17,980.10	25,481.90	11,894.13	20,860.71	49,431.48	3,542.15	3,848.48	249.36	552.74	64.74	2,093.87	1,263.96	119,283.52	121,240.03
2006	7,696.40	19,150.99	26,847.38	12,558.48	22,206.79	51,818.08	3,805.26	3,979.06	240.02	610.50	152.93	2,110.77	1,536.02	125,865.29	127,879.29
2007	7,743.53	20,194.46	27,937.98	13,206.94	22,625.94	54,317.90	4,028.38	4,229.80	267.77	648.70	38.16	2,067.92	1,623.24	130,992.73	133,112.81
2008	7,804.40	20,886.81	28,691.22	13,729.70	22,706.90	54,997.57	4,234.45	4,391.56	281.46	689.34	92.84	1,789.21	1,777.43	133,381.68	135,520.29
2009	8,343.04	21,913.46	30,256.50	14,342.30	22,284.59	52,963.64	4,379.21	4,676.62	317.86	670.99	93.07	1,625.82	1,843.11	133,453.70	135,180.83
2010	8,536.32	24,680.17	33,216.49	15,585.85	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	149,301.13
2011	8,601.35	24,198.11	32,799.46	15,446.19	23,116.47	61,099.69	4,799.31	4,888.22	296.71	840.63	68.57	1,618.49	2,168.39	147,142.13	148,855.49
Growth Rate (%)															
2003	2.60	7.87	6.22	6.07	4.91	8.40	1.80	1.81	18.61	9.22	124.06	44.86	12.99	7.06	-2.01
2004	3.86	5.75	5.18	6.68	0.50	13.02	7.18	3.06	10.04	14.34	86.43	8.28	9.25	7.65	3.90
2005	2.61	4.37	3.85	7.80	3.75	6.31	2.39	0.89	-0.56	11.60	54.96	15.18	6.75	5.34	5.10
2006	2.59	6.51	5.36	5.59	6.45	4.83	7.43	3.39	-3.75	10.45	136.21	0.81	21.52	5.52	2.94
2007	0.61	5.45	4.06	5.16	1.89	4.82	5.86	6.30	11.56	6.26	-75.05	-2.03	5.68	4.07	5.27
2008	0.79	3.43	2.70	3.96	0.36	1.25	5.12	3.82	5.11	6.26	143.27	-13.48	9.50	1.82	0.87
2009	6.90	4.92	5.46	4.46	-1.86	-3.70	3.42	6.49	12.93	-2.66	0.24	-9.13	3.69	0.05	-19.24
2010	2.32	12.63	9.78	8.67	6.56	13.90	8.47	7.97	5.48	13.54	-11.79	1.02	10.34	10.55	2.53
2011	0.76	-1.95	-1.26	-0.90	-2.66	1.28	1.04	-3.19	-11.51	10.34	-16.47	-1.46	6.62	-0.26	-3.25

Source : MEA, PEA and EGAT

Table 5.2-4Y
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	7,626.88	5,023.22	8,744.68	12,761.74	1,213.70	0.00	229.55	35,599.78	181.19	35,780.97
2003	7,998.77	5,282.09	9,258.57	13,298.76	1,177.08	0.00	233.53	37,248.80	181.84	37,430.64
2004	8,334.63	5,566.11	9,804.04	13,791.03	1,200.01	0.00	235.47	38,931.29	188.10	39,119.39
2005	8,637.37	5,771.96	10,171.38	13,915.05	1,151.71	0.00	258.39	39,905.86	194.10	40,099.96
2006	9,079.16	6,039.00	10,584.39	13,968.58	1,175.48	0.00	427.49	41,274.10	208.18	41,482.28
2007	9,230.43	6,150.31	10,767.25	13,863.48	1,214.71	0.00	586.34	41,812.53	222.88	42,035.41
2008	9,381.42	6,253.09	11,020.20	13,546.46	1,250.78	0.00	550.16	42,002.11	233.80	42,235.91
2009	9,779.26	6,379.67	10,951.08	12,369.37	1,288.25	0.00	693.71	41,461.34	271.96	41,733.30
2010	10,715.93	6,859.18	11,489.17	13,778.76	1,357.89	0.00	546.51	44,747.45	312.71	45,060.16
2011	10,124.80	6,644.43	11,683.86	13,557.72	1,293.24	0.00	543.70	43,847.75	346.99	44,194.74
Growth Rate (%)										
2003	4.88	5.15	5.88	4.21	-3.02	0.00	1.73	4.63	0.36	4.61
2004	4.20	5.38	5.89	3.70	1.95	0.00	0.83	4.52	3.44	4.51
2005	3.63	3.70	3.75	0.90	-4.02	0.00	9.73	2.50	3.19	2.51
2006	5.11	4.63	4.06	0.38	2.06	0.00	65.44	3.43	7.25	3.45
2007	1.67	1.84	1.73	-0.75	3.34	0.00	37.16	1.30	7.06	1.33
2008	1.64	1.67	2.35	-2.29	2.97	0.00	-6.17	0.45	4.90	0.48
2009	4.24	2.02	-0.63	-8.69	3.00	0.00	26.09	-1.29	16.32	-1.19
2010	9.58	7.52	4.91	11.39	5.41	0.00	-21.22	7.93	14.98	7.97
2011	-5.52	-3.13	1.69	-1.60	-4.76	0.00	-0.51	-2.01	10.96	-1.92

Source : MEA

Table 5.2-5Y
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	14,336.29	4,727.54	5,486.76	34,137.01	2,421.48	192.13	402.40	61,703.62	778.09	62,481.72
2003	15,330.77	5,060.51	5,932.65	37,330.38	2,524.02	227.88	456.66	66,862.87	902.04	67,764.91
2004	16,203.70	5,467.16	6,588.03	41,373.99	2,614.47	250.76	626.12	73,124.23	995.99	74,120.22
2005	16,844.52	6,122.17	7,031.84	44,375.66	2,696.77	249.36	793.38	78,113.70	1,069.86	79,183.56
2006	17,768.23	6,519.48	7,911.25	47,051.36	2,803.58	240.02	761.27	83,055.17	1,327.84	84,383.01
2007	18,707.55	7,056.63	8,620.35	49,172.17	3,015.08	267.77	717.41	87,556.96	1,400.35	88,957.32
2008	19,309.80	7,476.60	9,433.90	49,060.36	3,140.78	281.46	899.23	89,602.13	1,543.63	91,145.76
2009	20,477.24	7,962.63	9,973.04	47,194.14	3,388.37	317.86	835.97	90,149.26	1,571.14	91,720.40
2010	22,500.56	8,726.67	11,156.83	52,761.37	3,691.49	335.29	1,576.89	100,749.10	1,720.98	102,470.08
2011	22,674.65	8,801.77	11,586.56	52,874.60	3,594.99	296.71	1,296.71	101,125.99	1,821.40	102,947.38
Growth Rate (%)										
2003	6.94	7.04	8.13	9.35	4.23	18.61	13.48	8.36	15.93	8.46
2004	5.69	8.04	11.05	10.83	3.58	10.04	37.11	9.36	10.42	9.38
2005	3.95	11.98	6.74	7.25	3.15	-0.56	26.71	6.82	7.42	6.83
2006	5.48	6.49	12.51	6.03	3.96	-3.75	-4.05	6.33	24.11	6.57
2007	5.29	8.24	8.96	4.51	7.54	11.56	-5.76	5.42	5.46	5.42
2008	3.22	5.95	9.44	-0.23	4.17	5.11	25.34	2.34	10.23	2.46
2009	6.05	6.50	5.71	-3.80	7.88	12.93	-7.04	0.61	1.78	0.63
2010	9.88	9.60	11.87	11.80	8.95	5.48	88.63	11.76	9.54	11.72
2011	0.77	0.86	3.85	0.21	-2.61	-11.51	-17.77	0.37	5.84	0.47

Source : PEA

Table 5.2-6Y
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Year	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2002	21,963.17	9,750.76	14,702.42	48,256.14	3,635.18	192.13	631.95	99,131.75	959.29	100,091.04
2003	23,329.55	10,342.59	15,767.06	51,844.91	3,701.10	227.88	690.18	105,903.28	1,083.87	106,987.15
2004	24,538.32	11,033.28	16,975.84	56,442.76	3,814.47	250.76	861.59	113,917.02	1,184.09	115,101.11
2005	25,481.90	11,894.13	17,781.04	59,669.40	3,848.48	249.36	1,051.77	119,976.07	1,263.96	121,240.03
2006	26,847.38	12,558.48	19,097.15	62,432.42	3,979.06	240.02	1,188.76	126,343.27	1,536.02	127,879.29
2007	27,937.98	13,206.94	19,990.72	64,552.61	4,229.80	267.77	1,303.76	131,489.58	1,623.24	133,112.81
2008	28,691.22	13,729.70	21,051.91	64,147.63	4,391.56	281.46	1,449.39	133,742.86	1,777.43	135,520.29
2009	30,256.50	14,342.30	21,341.24	60,873.53	4,676.62	317.86	1,529.67	133,337.73	1,843.11	135,180.83
2010	33,216.49	15,585.85	23,004.54	67,952.49	5,049.39	335.29	2,123.40	147,267.44	2,033.69	149,301.13
2011	32,799.46	15,446.19	23,631.20	67,784.91	4,888.22	296.71	1,840.41	146,687.10	2,168.39	148,855.49
Growth Rate (%)										
2003	6.22	6.07	7.24	7.44	1.81	18.61	9.21	6.83	12.99	6.89
2004	5.18	6.68	7.67	8.87	3.06	10.04	24.84	7.57	9.25	7.58
2005	3.85	7.80	4.74	5.72	0.89	-0.56	22.07	5.32	6.75	5.33
2006	5.36	5.59	7.40	4.63	3.39	-3.75	13.02	5.31	21.52	5.48
2007	4.06	5.16	4.68	3.40	6.30	11.56	9.67	4.07	5.68	4.09
2008	2.70	3.96	5.31	-0.63	3.82	5.11	11.17	1.71	9.50	1.81
2009	5.46	4.46	1.37	-5.10	6.49	12.93	5.54	-0.30	3.69	-0.25
2010	9.78	8.67	7.79	11.63	7.97	5.48	38.81	10.45	10.34	10.45
2011	-1.26	-0.90	2.72	-0.25	-3.19	-11.51	-13.33	-0.39	6.62	-0.30

Source : MEA, PEA and EGAT

Table 5.3-1Y
EGAT Fuel Consumption in Power Generation

Year	Fuel Oil (M.Litres)	Disel Oil (M.Litres)	Natural Gas (MMSCFD)	Lignite (Tons)
1987	575	5	396	5,726,917
1988	831	5	473	5,895,752
1989	1,195	17	484	6,764,206
1990	2,532	163	473	9,875,324
1991	3,164	62	606	11,724,691
1992	3,719	71	640	12,370,539
1993	4,322	288	725	11,490,328
1994	4,789	474	820	12,155,884
1995	5,258	756	838	13,567,494
1996	5,068	1,320	929	16,405,340
1997	4,665	729	1,170	18,010,806
1998	4,253	306	1,205	15,388,095
1999	3,762	135	1,206	13,893,584
2000	2,364	29	1,301	14,120,569
2001	647	75	1,504	15,744,116
2002	499	41	1,632	15,035,329
2003	605	23	1,624	15,406,532
2004	1,296	55	1,671	16,536,694
2005	1,851	49	1,740	16,571,091
2006	1,895	21	1,766	15,815,374
2007	780	8	1,715	15,811,050
2008	249	8	1,558	16,407,465
2009	111	13	1,541	15,818,265
2010	140	12	1,879	16,004,196
2011	314	11	1,591	17,161,168

Source : EGAT

Remarks : From Dec 1994 onwards, Disel Oil does not Include Regco Use



ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 6

ENERGY VALUE

บทที่ 6
มูลค่าพลังงาน





บทที่ 6

มูลค่าพลังงาน

มูลค่าการใช้พลังงาน ของไทยมีแนวโน้มเพิ่มขึ้นต่อเนื่องทุกปี โดยในปี 2554 มีมูลค่าการใช้พลังงานอยู่ที่ระดับ 1,946 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 7.6 โดยมูลค่าการใช้น้ำมันสำเร็จรูปมีสัดส่วนมากที่สุด คิดเป็นร้อยละ 63 ของมูลค่าการใช้พลังงานทั้งหมด อยู่ที่ระดับ 1,221 พันล้านบาท เพิ่มขึ้นร้อยละ 10.4 จากปีก่อน รองลงมาเป็นมูลค่าการใช้ไฟฟ้าคิดเป็นสัดส่วนร้อยละ 24 อยู่ที่ระดับ 472 พันล้านบาท ลดลงร้อยละ 0.6 มูลค่าการใช้พลังงานทดแทนคิดเป็นสัดส่วนร้อยละ 6 อยู่ที่ระดับ 126 พันล้านบาท ลดลงร้อยละ 2.6 มูลค่าการใช้ก๊าซธรรมชาติคิดเป็นสัดส่วนร้อยละ 5 อยู่ที่ระดับ 98 พันล้านบาท เพิ่มขึ้นร้อยละ 42.1 และมูลค่าการใช้ถ่านหินคิดเป็นสัดส่วนร้อยละ 2 อยู่ที่ระดับ 30 พันล้านบาท เพิ่มขึ้นร้อยละ 1.7

มูลค่าการนำเข้าพลังงาน ในปี 2554 มีมูลค่าการนำเข้าทั้งหมด 1,237 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 30.2 โดยมูลค่าการนำเข้าพลังงานเพิ่มขึ้นทุกประเภท

มูลค่าการนำเข้าน้ำมันดิบมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 79 ของมูลค่าการนำเข้าทั้งหมด อยู่ที่ระดับ 977 พันล้านบาท เพิ่มขึ้นร้อยละ 30.1 รองลงมาเป็นก๊าซธรรมชาติและน้ำมันสำเร็จรูปคิดเป็นสัดส่วนร้อยละ 8 อยู่ที่ระดับ 93 พันล้านบาท และ 94 พันล้านบาท มูลค่าการนำเข้าถ่านหินคิดเป็นสัดส่วนร้อยละ 3 อยู่ที่ระดับ 42 พันล้านบาท เพิ่มขึ้นร้อยละ 7.6 ไฟฟ้านำเข้ามีมูลค่า 14 พันล้านบาทคิดเป็นสัดส่วนร้อยละ 1.0 เพิ่มขึ้นร้อยละ 69.9 และ LNG มีมูลค่าการนำเข้า 16 พันล้านบาท

ประเทศไทยมีสัดส่วนมูลค่าการนำเข้าพลังงานต่อมูลค่าการใช้พลังงานทั้งหมดเพิ่มขึ้นต่อเนื่องทุกปี โดยในปี 2554 มีสัดส่วนการนำเข้าต่อการใช้เพิ่มขึ้นอยู่ที่ระดับร้อยละ 63 สูงกว่าปีที่ผ่านมาซึ่งอยู่ที่ระดับร้อยละ 51

Chapter 6

Energy Value



Nominal Value of Energy Consumption. Thailand's expenditure on energy consumption had been increasing each year. In 2011, the nominal value of energy consumption in Thailand totaled 1,946 billion Baht (approx. US\$ 57.7 billion, at a rate of 31 THB/US\$), an increase of 7.6% from that in the previous year. Petroleum product consumption was worth 1,221 billion Baht, an increase of 10.4% compared with the previous year, accounting for the largest share of 63% of the total energy consumption value. Next to it was the electricity consumption of which the nominal value was 472 billion Baht, an decreasing by 0.6%, accounting for a share of 24%. Renewable/alternative energy consumption was worth 126 billion Baht, a decreasing by 2.6%, accounting for a share of 5%. Natural gas consumption was worth 98 billion Baht, an increase of 42.1%, accounting for a share of 5%. Lignite/coal consumption was worth 30 billion Baht, an increase of 1.7%, holding a share of 2%.

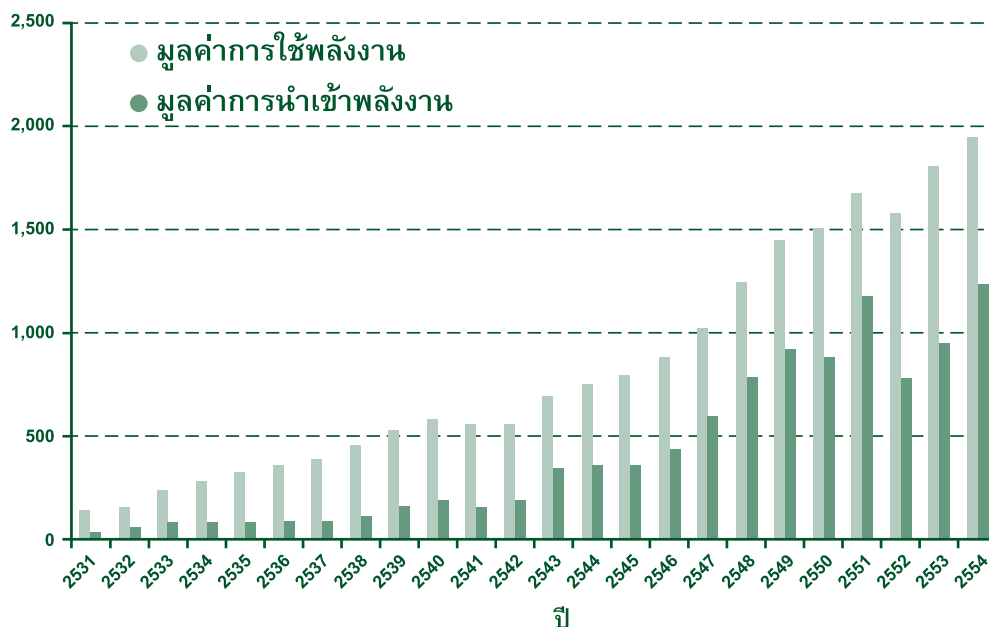
Nominal Value of Energy Import. In 2011, total energy import into Thailand was worth 1,237 billion Baht, an increase of 30.2% from that in the previous year, with increasing import value of all energy types.

The value of imported crude oil, which constituted the largest share (79%) of the total import value, was 977 billion Baht, accounting for an increase of 30.1%. Next to it was that of natural gas import and Petroleum product import holding a share of 8%, worth 93 billion Baht and 94 billion Baht, coal import which was worth 42 billion Baht, an increase of 7.6%, holding a share of 3%.; then imported electricity, worth 14 billion Baht, a considerable increase of 69.9%, but still holding a meager share of 1 %, and finally LNG import , worth 16 billion Baht.

In Thailand, the ratio of energy import value to total energy consumption value increases each year. In 2011 the ratio was 63%, increasing from 51% in the previous year.

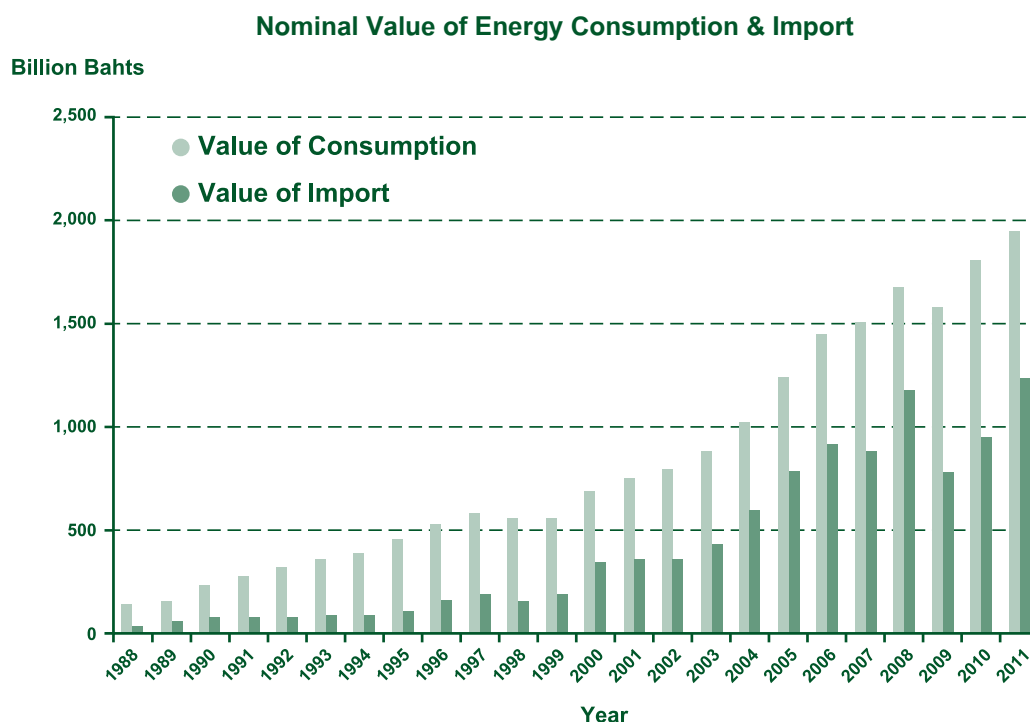
มูลค่าการใช้และการนำเข้าพลังงาน

พันล้านบาท



มูลค่าการใช้น้ำมันสำเร็จรูป ในปี 2554 มีมูลค่าการใช้อยู่ที่ระดับ 1,221 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 10.4 โดยมูลค่าการใช้น้ำมันดีเซลมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 46 ของมูลค่าการใช้น้ำมันสำเร็จรูปทั้งหมด เพิ่มขึ้นร้อยละ 8.2 รองลงมาเป็นน้ำมันเบนซินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 22 เพิ่มขึ้นร้อยละ 9.0 น้ำมันเครื่องบินมีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 16 เพิ่มขึ้นร้อยละ 9.7 ก๊าซ LPG มีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 11 เพิ่มขึ้นร้อยละ 28.9 และน้ำมันเตามีมูลค่าการใช้คิดเป็นสัดส่วนร้อยละ 5 เพิ่มขึ้นร้อยละ 4.7

มูลค่าการส่งออกพลังงาน ในปี 2554 มีมูลค่าการส่งออกอยู่ที่ระดับ 321 พันล้านบาท เพิ่มขึ้นจากปีก่อนร้อยละ 22.6 โดยมูลค่าการส่งออกน้ำมันสำเร็จรูปมีสัดส่วนการส่งออกมากที่สุดคิดเป็นร้อยละ 87 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 20.0 รองลงมาเป็นน้ำมันดิบมีสัดส่วนการส่งออกคิดเป็นร้อยละ 12 ของมูลค่าการส่งออกทั้งหมด เพิ่มขึ้นร้อยละ 52.9 และไฟฟ้ามีสัดส่วนการส่งออกน้อยที่สุดคิดเป็นร้อยละ 1 ของมูลค่าการส่งออกทั้งหมด ลดลงร้อยละ 23.2



Nominal Value of Petroleum Product Consumption. In 2011, the worth of petroleum product consumption was 1,221 billion Baht, increasing by 10.4% from that in 2010. The worth of diesel consumption increased by 8.2%, accounting for the largest share (46%) of the total petroleum product consumption value. Next to it was gasoline, holding a share of 22% of the total consumption value, or an increase of 9.0%. Jet petroleum had a share of 16%, increasing by 9.7%; LPG holding a share of 11%, increasing by 28.9%; and fuel oil, holding a share of 5%, increasing by 4.7%.

Nominal Value of Energy Export. In 2011, the nominal value of energy export stood at 321 billion Baht, increasing by 22.6% from that in the previous year. Petroleum product export accounted for the largest share, i.e. 87%, of the total energy export value, accounting for an increase of 20.0%. Next to it was crude oil, worth 12% of the total energy export value, decreasing by 52.9%; and then electricity, holding only 1% of the total energy export value, decreasing by 23.2%.

Table 6.1-1Y
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Petroleum Products	161,577	171,865	188,741	199,027	232,997	280,397	318,671	306,762	309,746	407,912
Electricity	73,201	87,354	98,239	111,531	136,231	153,410	162,115	175,418	167,864	199,059
Natural Gas	827	1,200	1,519	2,067	3,059	3,398	4,685	4,622	5,942	10,283
Lignite/Coal	2,529	2,841	3,595	4,835	5,821	7,511	7,819	5,870	6,202	5,667
Renewable*	41,125	60,461	65,323	72,738	76,815	85,536	87,341	63,635	65,235	66,958
Total	279,260	323,722	357,417	390,198	454,922	530,253	580,630	556,307	554,989	689,879

Table 6.1-1Y (Cont.)
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Products	430,516	451,554	515,313	605,407	774,404	916,291	956,733	1,092,114	960,067	1,105,863	1,220,582
Electricity	232,655	247,528	267,559	302,830	330,086	387,213	392,669	397,924	431,165	474,671	471,604
Natural Gas	11,396	13,413	16,404	16,361	22,275	28,880	35,110	53,867	49,272	68,724	97,666
Lignite/Coal	7,569	8,767	10,033	13,349	18,438	18,024	23,128	28,673	28,611	29,738	30,233
Renewable*	70,255	69,932	75,122	86,235	95,541	97,142	102,103	103,991	115,268	129,370	126,030
Total	752,390	791,195	884,432	1,024,182	1,240,743	1,447,550	1,509,743	1,676,568	1,584,383	1,808,365	1,946,114

* Estimate

Source : PTT, EGAT, DOE, DEDE

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2Y
Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Gasoline	21,293	24,699	28,069	32,340	38,062	39,703	44,377	47,775	57,017	64,344	76,622	83,661
- Regular	12,167	13,718	15,175	16,379	19,159	19,215	19,260	18,247	19,572	19,161	19,841	24,571
- Premium	9,126	10,980	12,894	15,961	18,902	20,489	25,118	29,527	37,445	45,183	56,781	59,090
Kerosene	789	769	730	838	987	1,004	960	969	878	985	951	647
Diesel	40,452	44,389	52,631	65,596	79,712	80,493	92,436	94,884	112,987	142,109	158,139	137,998
J.P.	9,120	11,210	12,927	15,610	21,923	24,334	25,896	26,707	28,681	33,993	39,547	38,846
Fuel Oil	5,517	5,582	7,146	8,491	10,138	14,381	12,161	14,739	18,085	20,733	23,515	23,646
LPG	6,695	7,450	8,359	9,129	10,756	11,950	12,910	13,953	15,350	18,233	19,897	21,964
Total	83,866	94,098	109,861	132,004	161,577	171,865	188,741	199,027	232,997	280,397	318,671	306,762

Table 6.1-2Y (Cont.)
Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Gasoline	84,184	102,308	102,318	107,765	122,450	141,585	166,787	193,415	204,467	220,348	214,832	249,036	271,490
- Regular	26,873	49,214	55,815	62,104	71,232	84,390	100,458	121,885	132,532	138,594	124,046	154,621	184,308
- Premium	57,311	53,094	46,503	45,662	51,218	57,195	66,329	71,531	71,935	81,754	90,786	94,415	87,182
Kerosene	613	739	903	963	604	454	520	562	526	593	657	572	496
Diesel	139,458	192,492	203,176	210,375	245,980	285,424	386,712	468,950	478,902	542,811	438,079	522,176	565,081
J.P.	39,100	52,845	59,339	58,802	62,995	82,786	105,301	128,856	142,742	175,118	164,897	176,736	193,917
Fuel Oil	26,931	36,980	36,194	39,625	45,350	52,239	65,574	68,524	63,754	69,647	52,101	54,500	57,057
LPG	19,460	22,547	28,586	34,024	37,933	42,920	49,510	55,984	66,343	83,598	89,501	102,843	132,542
Total	309,746	407,912	430,516	451,554	515,313	605,407	774,404	916,291	956,733	1,092,114	960,067	1,105,863	1,220,582

Remarks : Final Energy Consumption
Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3Y
Value of Energy Import

Unit : Million Bahts

Energy Type	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Crude Oil	26,833	21,414	32,593	42,792	39,855	48,644	51,024	55,363	72,122	121,937	166,545	137,100
Pet. Products	13,485	16,207	23,120	39,064	39,039	33,458	37,254	32,839	37,203	37,101	20,772	10,538
Natural Gas												
Coal	442	516	864	646	719	649	1,019	1,719	2,174	3,985	3,813	2,068
Electricity											710	2,494
LNG												
Total	40,760	38,136	56,577	82,502	79,613	82,751	89,298	89,920	111,499	163,023	191,840	152,200

Table 6.1-3Y (Cont.)
Value of Energy Import

Unit : Million Bahts

Energy Type	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Crude Oil	169,633	285,862	284,373	286,953	346,057	486,627	644,933	753,783	715,789	1,002,667	623,024	751,467	977,374
Pet. Products	15,122	39,028	30,668	27,854	33,168	44,677	59,825	62,381	50,251	41,063	29,116	66,835	94,279
Natural Gas		7,839	30,559	35,073	42,635	46,053	62,827	77,843	78,901	90,506	84,208	84,481	93,493
Coal	4,010	5,068	7,489	7,872	9,370	12,275	15,422	18,896	29,656	36,456	36,935	39,361	42,336
Electricity	3,431	4,671	4,701	4,474	4,159	5,659	7,114	8,294	7,414	4,540	3,623	8,157	13,860
LNG													15,993
Total	192,196	342,468	357,790	362,226	435,389	595,291	790,122	921,197	882,012	1,175,232	776,906	950,300	1,237,336

Source : PTT, EGAT, DOEB, DEDE

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4Y
Value of Energy Export

Energy Type	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Crude Oil										14,449
Petroleum Products										
Electricity	71	82	100	142	163	188	292	334	329	407
Total	71	82	100	142	163	188	292	334	329	14,855

Unit : Million Bahts

Table 6.1-4Y (Cont.)
Value of Energy Export

Energy Type	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Crude Oil	18,075	29,356	33,883	52,858	56,835	45,812	56,575	27,410	26,107	39,915
Petroleum Products			86,459	111,534	160,926	159,077	260,384	205,286	231,864	278,257
Electricity	435	499	646	1,325	1,730	2,145	2,801	4,068	4,087	3,137
Total	18,510	29,855	120,989	165,718	219,491	207,034	319,760	236,764	262,058	321,309

Unit : Million Bahts

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)





ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 7

ENERGY AND ECONOMICS

บทที่ 7
พลังงานกับเศรษฐกิจ



ECONOMICS DATA

ANALYSIS



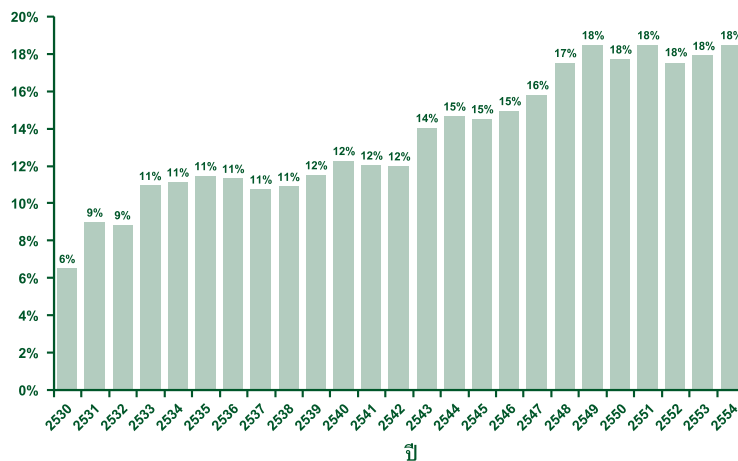
บทที่ 7

พลังงานกับเศรษฐกิจ

อัตราการเจริญเติบโตทางเศรษฐกิจของไทย (GDP) ปี 2554 ขยายตัวเล็กน้อยอยู่ที่ร้อยละ 0.1 เนื่องจากในช่วงต้นเดือนมีนาคมเกิดเหตุการณ์แผ่นดินไหวและสึนามิที่ประเทศญี่ปุ่นซึ่งส่งผลกระทบต่อภาคอุตสาหกรรมของไทย และในช่วงปลายปีเกิดเหตุการณ์อุทกภัยในเขตพื้นที่ภาคกลางทำให้อุปทานในประเทศลดลง โดยเฉพาะอย่างยิ่งการผลิตในภาคอุตสาหกรรมของจังหวัดพระนครศรีอยุธยาและจังหวัดปทุมธานี ได้แก่ อุตสาหกรรมยานยนต์และชิ้นส่วนอุปกรณ์อิเล็กทรอนิกส์ และส่งผลกระทบต่อภาคการเกษตรกรรม รวมถึงภาคการท่องเที่ยวของไทย

มูลค่าการใช้พลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการใช้พลังงานต่อรายได้ประชาชาติซึ่งมีแนวโน้มเพิ่มขึ้น โดยในปี 2554 ประเทศไทยมีมูลค่าการใช้พลังงานต่อ GDP อยู่ที่ร้อยละ 18.5 ในขณะที่ปี 2530 มีสัดส่วนอยู่ที่ร้อยละ 6.5 เท่านั้น

สัดส่วนมูลค่าการใช้พลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



มูลค่าการนำเข้าพลังงานต่อ GDP ณ ราคาตลาด คือ การเปรียบเทียบสัดส่วนมูลค่าการนำเข้าพลังงานต่อรายได้ประชาชาติ โดยในช่วงปี 2530-2540 ซึ่งเป็นช่วงก่อนเกิดวิกฤตเศรษฐกิจ ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานเฉลี่ยอยู่ที่ร้อยละ 3.0 ของ GDP เนื่องจากราคาพลังงานอยู่ในระดับต่ำ แต่ในช่วงหลังเกิดวิกฤตเศรษฐกิจราคาน้ำมันดิบปรับตัวสูงขึ้นมาก จึงมีผลทำให้ประเทศไทยต้องสูญเสียเงินตราต่างประเทศเพิ่มขึ้น โดยในปี 2551 ราคาน้ำมันดิบอยู่ในระดับสูง ประเทศไทยจึงต้องใช้จ่ายเงินในการนำเข้าพลังงานสูงถึงร้อยละ 12.9 ของ GDP และปัจจุบันปี 2554 ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานอยู่ที่ร้อยละ 11.6 ของ GDP

Chapter 7

Energy and Economics

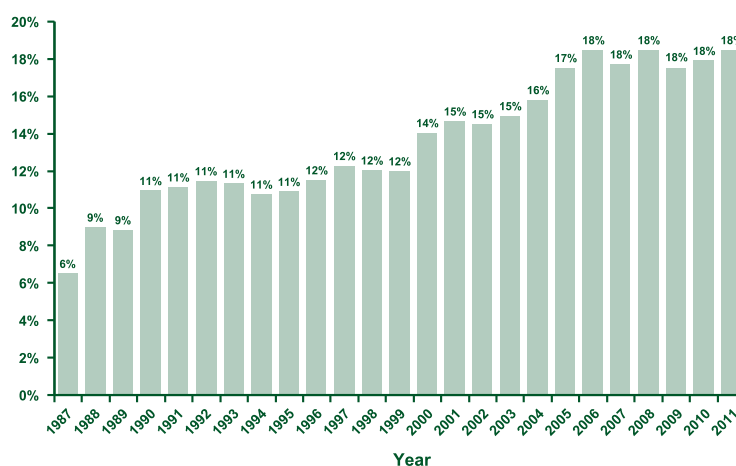


In 2011, Thailand's economic growth (GDP) was as low as 0.1%. Unfortunately, the severe disasters, Tsunami in early year in Japan and Thailand's heavy flood in industrial area in central plain, that occurred in 2011 left Thailand's economy almost no growth. Thailand's manufacturing supply chain that was cut off by the Tsunami affected its production in early 2011. Furthermore, in the last quarter of 2011, a disastrous flood heavily affected the manufacturing sector, specially the industrial estates in Phra Nakhon Sri Ayutthaya and Pathum Thani provinces, and agricultural sector - including tourist industry.

Expenditure on Final Energy Consumption to GDP at Current Market Prices

– This is the percentage of energy consumption nominal value in comparison with the GDP of the country, of which the trend had been increasing. In 2011, the ratio of energy consumption nominal value to GDP of Thailand was 18.5% while that in 1987 was only at 6.5%.

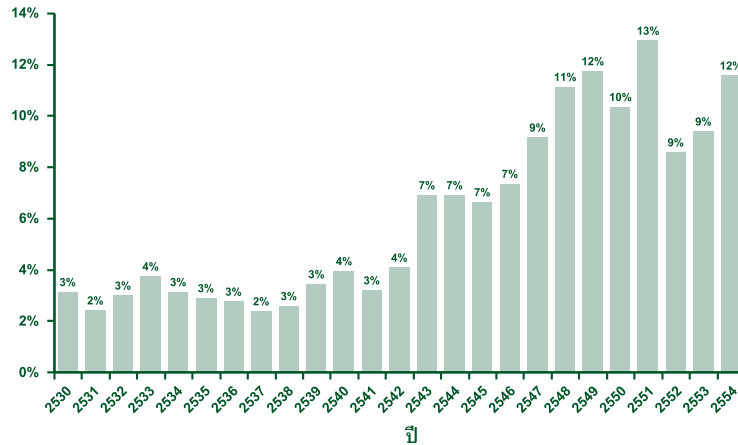
Expenditure on Final Energy Consumption (at Current Market Prices)



Nominal Value of Energy Import to GDP at Current Market Prices

– This is the percentage of energy import nominal value in comparison with the national GDP. During 1987-1997, prior to the (Asian) economic crisis, Thailand's expenditure on energy import was at an average rate of 3% of the GDP as energy prices were then relatively low. However, after the economic crisis, crude oil prices sharply increased, causing an increasing loss of foreign currency to Thailand; particularly in 2008 when the crude oil price was exorbitantly high, Thailand had to spend on imported energy as high as 12.9% of the GDP. In 2011, Thailand's expenditure on energy import accounted for 11.6% of the GDP.

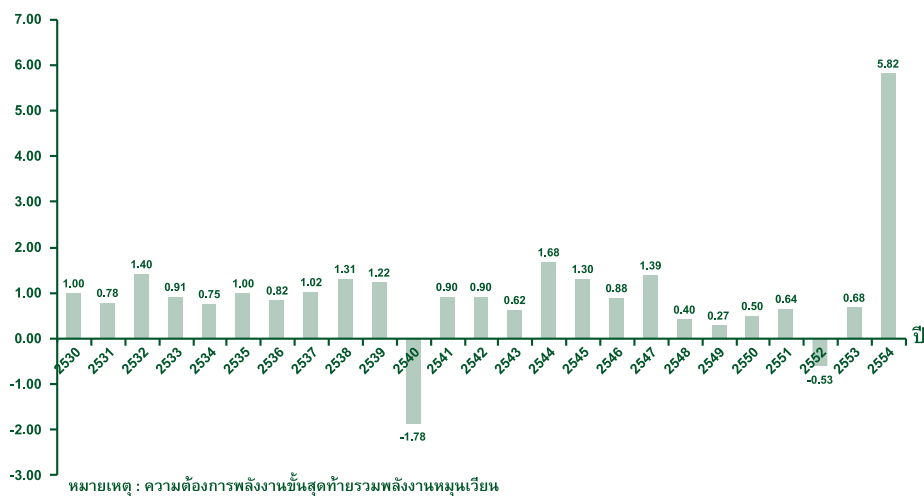
สัดส่วนมูลค่าการนำเข้าพลังงานต่อผลิตภัณฑ์มวลรวมประชาชาติ (ณ ราคาตลาด)



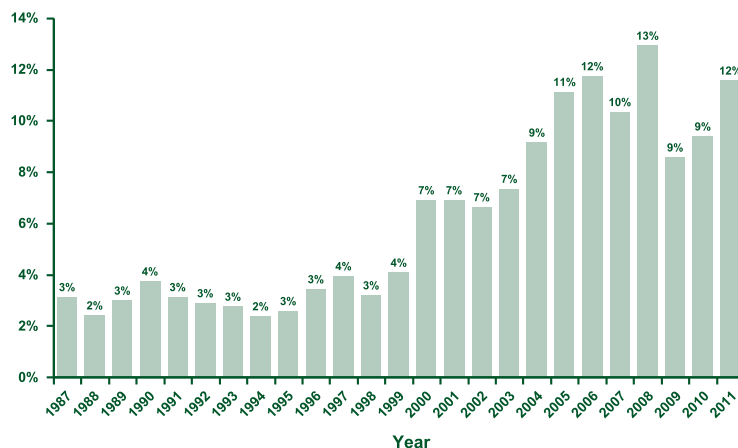
Energy Elasticity (EE) หรือความยืดหยุ่นการใช้พลังงาน คือ อัตราการเปลี่ยนแปลงการใช้พลังงาน ต่ออัตราการเปลี่ยนแปลง GDP ซึ่งเป็นดัชนีชี้วัดประสิทธิภาพการใช้พลังงาน

ในช่วง 20 ปีที่ผ่านมา คือปี 2535-2554 ค่า EE ของไทยอยู่ที่ระดับ 1.01 ซึ่งหมายถึงประเทศไทย ต้องใช้พลังงานเพิ่มขึ้น 1.01 หน่วย เป็นต้นทุนในการผลิต GDP ให้ได้ผลผลิตเพิ่มขึ้น 1.00 หน่วย โดยในช่วง 10 ปีแรก คือปี 2535-2544 การใช้พลังงานยังไม่มีประสิทธิภาพมากนัก ค่า EE อยู่ที่ระดับ 1.21 แต่ในช่วงหลัง ประเทศไทยมีการปรับปรุงประสิทธิภาพการใช้พลังงานมากขึ้น อาทิ ส่งเสริมการใช้เครื่องใช้ไฟฟ้าที่ติดฉลาก ประสิทธิภาพเบอร์ 5 ปรับปรุงเครื่องจักรในโรงงานอุตสาหกรรม และมาตรการประหยัดพลังงาน ทำให้ในช่วง 10 ปีหลัง คือปี 2545-2554 ค่า EE อยู่ที่ระดับ 0.75

ความยืดหยุ่นการใช้พลังงาน (รายปี)



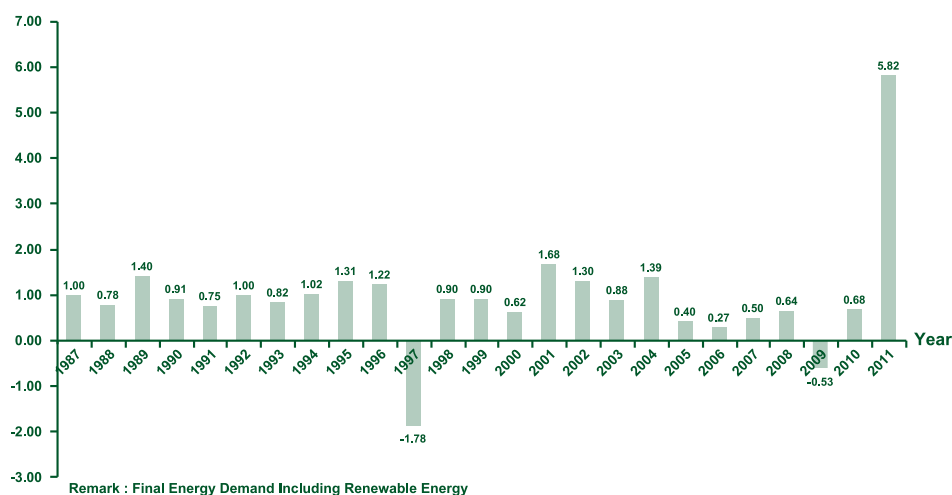
Ratio of Nominal Value of Energy Import to GDP (at Current Market Prices)



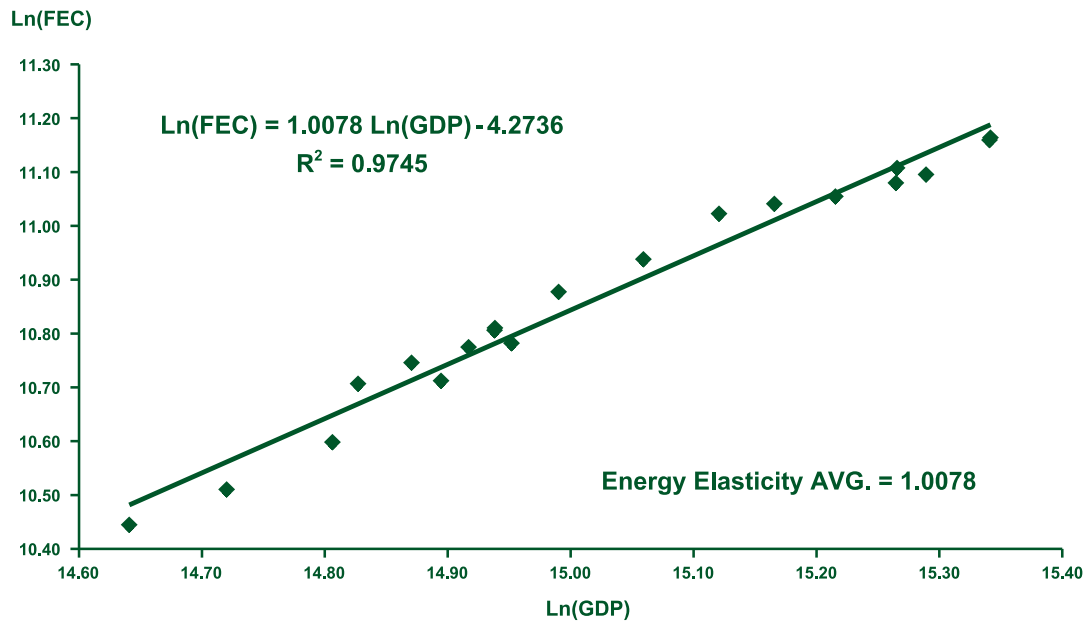
Energy Elasticity (EE) is the percentage change in energy consumption to achieve one percent change in the national GDP, which is used as an indicator of energy utilization efficiency.

During the past 20 years, i.e. 1992-2011, Thailand's average EE was at 1.01, which means that Thailand's energy demand grew by 1.01 percent, as production capital, for every one percent increase in GDP. During the first decade, i.e. 1992-2001, energy efficiency had not much been improved, i.e. the average EE was at 1.21, but later on Thailand had put greater effort to improve the national energy efficiency. For example, promotion had been made on the use of electrical appliances with energy efficiency labeling No. 5 (high efficiency); improvement of machinery/equipment in industrial factories, and application of energy saving measures; these efforts resulted in improved EE during the second decade, i.e. during 2001-2011 the average EE was at 0.75.

Energy Elasticity (Yearly)

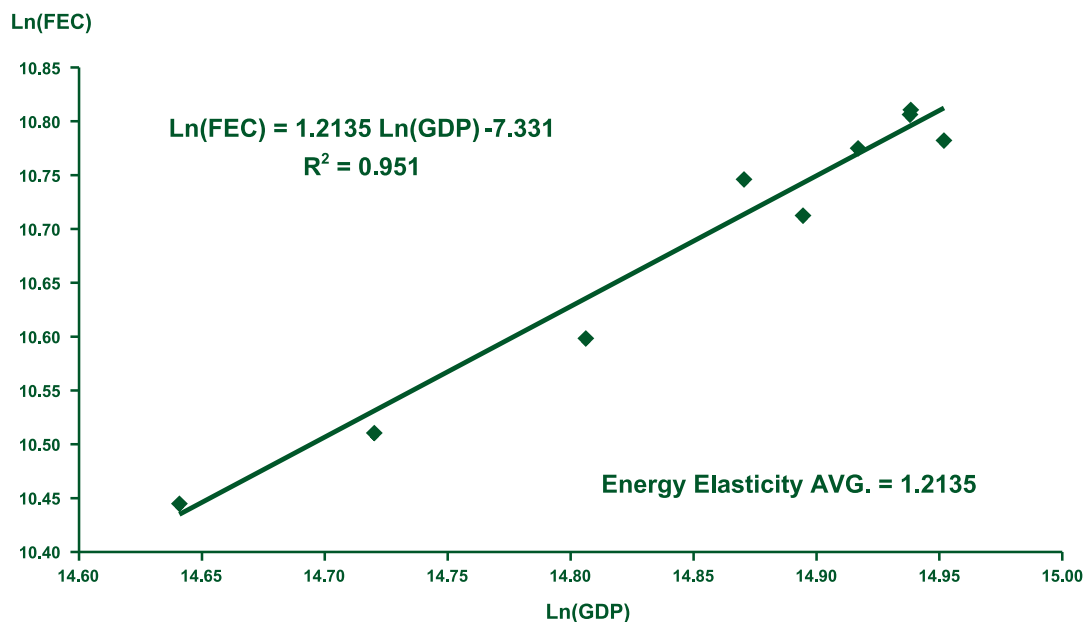


ความยืดหยุ่นการใช้พลังงาน (ปี 2535-2554)



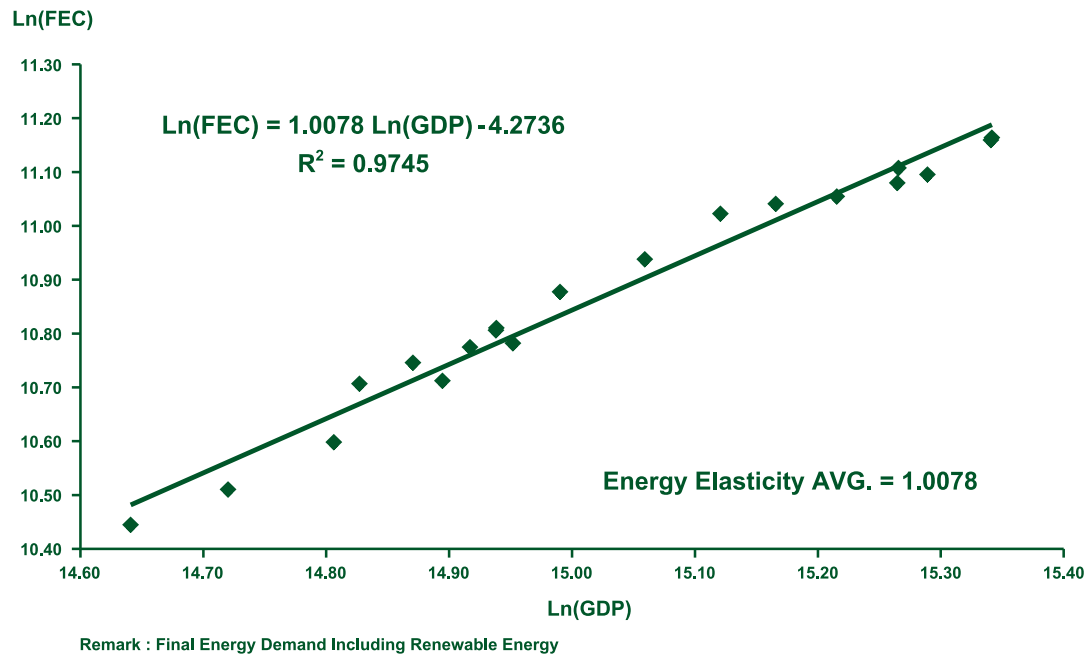
หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน

ความยืดหยุ่นการใช้พลังงาน (ปี 2535-2544)

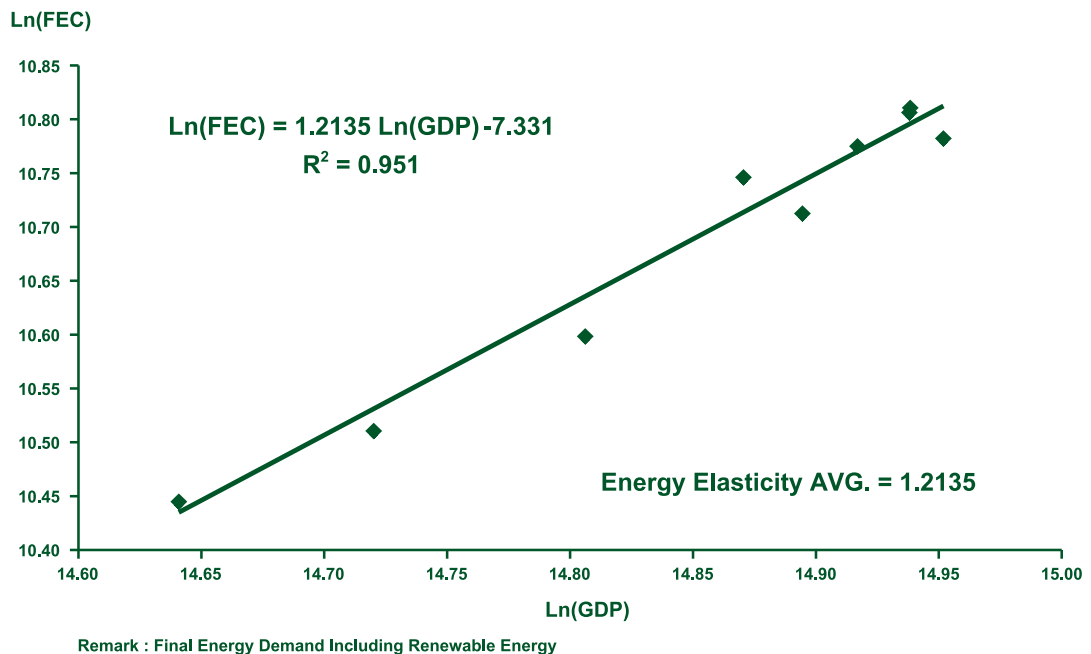


หมายเหตุ : ความต้องการพลังงานขั้นสุดท้ายรวมพลังงานหมุนเวียน

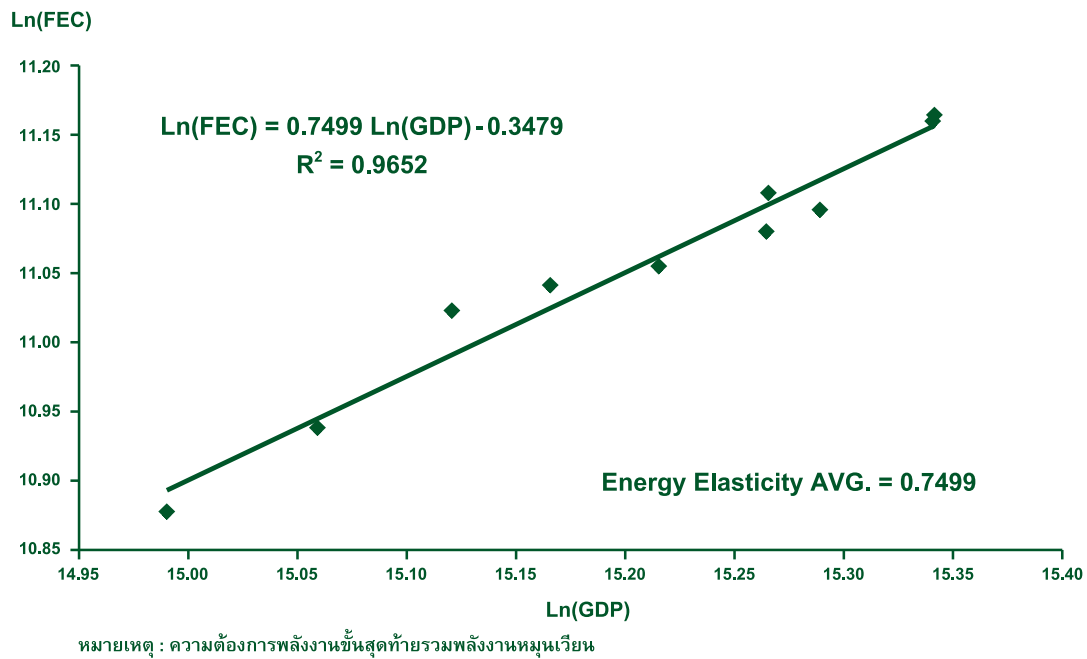
Energy Elasticity during (1992-2011)



Energy Elasticity during (1992-2001)



ความยืดหยุ่นการใช้พลังงาน (ปี 2545-2554)



Energy Elasticity during (2002-2011)

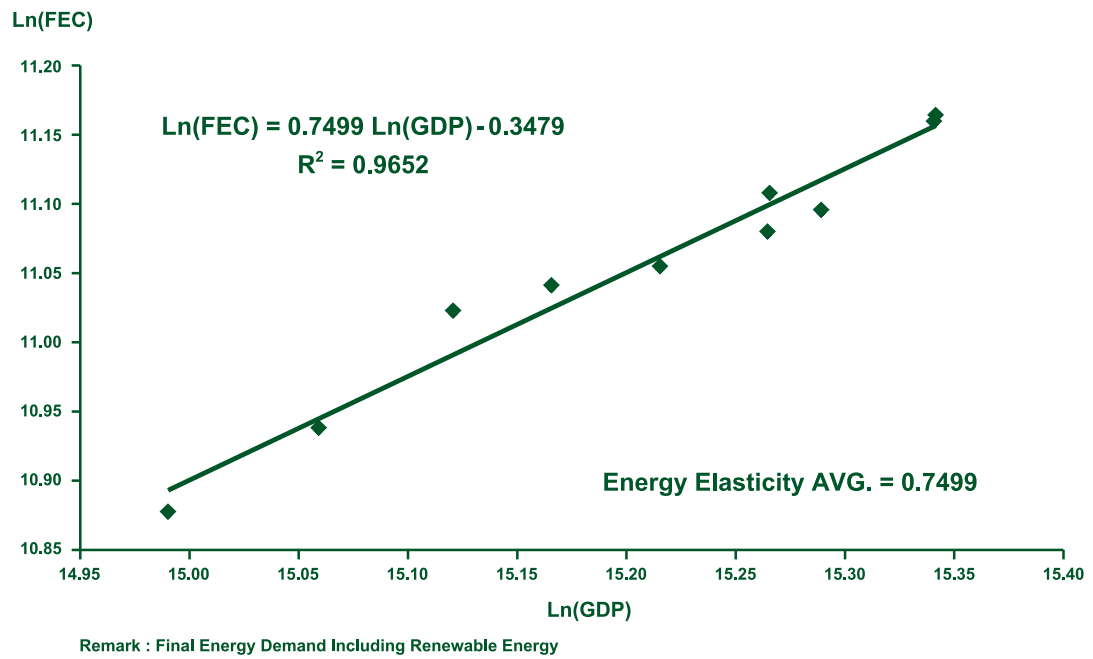


Table 7.1-1
GDP at Constant 1988 Prices

Unit : Million Bahts

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Agriculture	228,346	252,346	276,569	263,607	282,740	296,277	255,106	265,893	276,590	288,840	286,833	282,606	289,178
Mining	24,107	26,599	28,227	31,053	36,085	37,959	40,770	43,841	44,748	52,892	59,973	56,244	60,865
Manufacturing	341,750	403,034	467,632	540,932	604,337	672,636	781,865	856,547	958,374	1,021,419	1,036,152	923,602	1,033,431
Construction	66,060	74,449	95,554	116,606	132,494	138,700	150,710	172,036	183,600	196,540	146,138	90,235	84,060
Electricity	31,515	35,298	42,259	46,841	51,750	57,115	62,413	69,335	79,054	81,962	86,705	86,117	88,823
Transportation	100,585	116,611	128,754	146,796	157,644	172,764	191,420	213,273	239,223	267,255	279,945	254,462	270,147
Res. and Com.	584,484	651,467	710,957	799,537	846,812	907,121	988,624	1,072,048	1,160,147	1,206,430	1,176,869	1,056,418	1,045,476
Total	1,376,847	1,559,804	1,749,952	1,945,372	2,111,862	2,282,572	2,470,908	2,692,973	2,941,736	3,115,338	3,072,615	2,749,684	2,871,980
Growth Rate (%)													
Agriculture	0.1	10.5	9.6	-4.7	7.3	4.8	-13.9	4.2	4.0	4.4	-0.7	-1.5	2.3
Mining	12.1	10.3	6.1	10.0	16.2	5.2	7.4	7.5	2.1	18.2	13.4	-6.2	8.2
Manufacturing	16.0	17.9	16.0	15.7	11.7	11.3	16.2	9.6	11.9	6.6	1.4	-10.9	11.9
Construction	9.8	12.7	28.3	22.0	13.6	4.7	8.7	14.2	6.7	7.0	-25.6	-38.3	-6.8
Electricity	5.4	12.0	19.7	10.8	10.5	10.4	9.3	11.1	14.0	3.7	5.8	-0.7	3.1
Transportation	9.3	15.9	10.4	14.0	7.4	9.6	10.8	11.4	12.2	11.7	4.7	-9.1	6.2
Res. and Com.	10.1	11.5	9.1	12.5	5.9	7.1	9.0	8.4	8.2	4.0	-2.5	-10.2	-1.0
Total	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4

Table 7.1-1 (Cont.)
GDP at Constant 1988 Prices

Unit : Million Bahts

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Agriculture	309,948	320,016	322,179	363,033	354,431	347,892	365,428	369,772	385,225	390,362	381,401	396,951
Mining	64,235	64,622	71,741	76,616	80,837	88,081	91,585	95,088	95,280	96,105	101,141	99,031
Manufacturing	1,096,168	1,111,457	1,190,807	1,318,279	1,426,338	1,499,882	1,588,105	1,686,372	1,751,411	1,645,015	1,873,170	1,793,358
Construction	76,323	76,471	80,615	82,837	88,790	93,809	98,086	100,511	95,190	95,551	102,090	96,875
Electricity	97,570	103,937	110,137	115,195	122,525	129,004	135,114	141,975	147,603	148,880	163,848	164,448
Transportation	290,388	310,058	331,168	340,644	366,290	383,925	407,682	432,037	429,933	413,666	430,338	441,898
Res. and Com.	1,073,769	1,087,040	1,130,395	1,171,562	1,248,978	1,315,426	1,368,504	1,433,271	1,460,191	1,473,560	1,544,124	1,607,094
Total	3,008,401	3,073,601	3,237,042	3,468,166	3,688,189	3,858,019	4,054,504	4,259,026	4,364,833	4,263,139	4,596,112	4,599,655
Growth Rate (%)												
Agriculture	7.2	3.2	0.7	12.7	-2.4	-1.8	5.0	1.2	4.2	1.3	-2.3	4.1
Mining	5.5	0.6	11.0	6.8	5.5	9.0	4.0	3.8	0.2	0.9	5.2	-2.1
Manufacturing	6.1	1.4	7.1	10.7	8.2	5.2	5.9	6.2	3.9	-6.1	13.9	-4.3
Construction	-9.2	0.2	5.4	2.8	7.2	5.7	4.6	2.5	-5.3	0.4	6.8	-5.1
Electricity	9.8	6.5	6.0	4.6	6.4	5.3	4.7	5.1	4.0	0.9	10.1	0.4
Transportation	7.5	6.8	6.8	2.9	7.5	4.8	6.2	6.0	-0.5	-3.8	4.0	2.7
Res. and Com.	2.7	1.2	4.0	3.6	6.6	5.3	4.0	4.7	1.9	0.9	4.8	4.1
Total	4.8	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-2
Population

Unit : Persons

Year	Population	Growth (%)
1987	53,427,000	1.7
1988	54,326,000	1.7
1989	55,214,000	1.6
1990	55,839,000	1.1
1991	56,574,000	1.3
1992	57,294,000	1.3
1993	58,010,000	1.2
1994	58,713,000	1.2
1995	59,401,000	1.2
1996	60,003,000	1.0
1997	60,602,000	1.0
1998	61,201,000	1.0
1999	61,806,000	1.0
2000	62,236,000	0.7
2001	62,836,000	1.0
2002	63,419,000	0.9
2003	63,982,000	0.9
2004	64,531,000	0.9
2005	65,099,000	0.9
2006	65,574,000	0.7
2007	66,041,000	0.7
2008	66,482,000	0.7
2009	66,903,000	0.6
2010	67,313,000	0.6
2011	67,597,000	0.4

Source : Office of The National Economic and Social Development Board (NESDB)

Table 7.1-3
Industrial Index

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Jan	96.6	101.9	103.8	125.0	138.8	150.6	157.5	167.2	188.3	140.4	182.2	193.8
Feb	95.6	99.7	102.7	119.4	139.2	141.9	161.2	163.3	186.0	139.2	185.8	187.0
Mar	104.8	111.0	116.2	135.9	145.9	166.7	178.6	180.7	200.5	155.1	214.7	207.8
Apr	87.5	90.3	105.0	119.1	128.2	141.0	148.2	151.1	169.5	140.1	179.8	162.7
May	98.5	104.8	117.0	125.7	141.2	155.7	170.6	172.7	189.8	156.0	190.2	176.4
Jun	101.1	105.0	114.7	127.6	143.5	161.7	165.7	172.3	189.1	166.1	199.4	206.1
Jul	97.0	102.3	116.4	129.3	141.1	156.0	162.9	173.1	191.3	165.6	193.8	196.1
Aug	100.2	104.1	121.0	124.8	138.3	160.7	171.3	180.3	183.8	169.3	187.7	204.9
Sep	104.0	103.5	120.1	134.8	145.2	164.1	172.1	184.3	186.6	185.2	201.4	211.3
Oct	103.9	108.4	124.7	137.7	152.7	162.5	170.3	186.5	183.9	183.0	196.1	132.9
Nov	107.0	105.6	124.4	132.0	153.1	162.6	167.5	186.8	168.3	180.8	195.2	100.7
Dec	104.0	101.8	116.3	141.9	155.2	158.7	164.8	184.9	146.9	192.1	191.8	145.8
Total	100.0	103.2	115.2	129.4	143.5	156.8	165.9	175.3	182.0	164.4	193.2	177.1

Source : The Office of Industrial Economics

Table 7.1-4
Industrial Capacity Utilization Ratios

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Jan	56.1	57.8	56.6	64.0	65.6	67.5	66.8	65.6	68.5	52.3	60.7	62.9
Feb	55.4	55.9	56.0	60.3	65.5	63.6	66.5	63.3	66.4	50.5	60.7	59.6
Mar	61.0	62.3	62.9	68.0	67.7	70.8	72.9	69.1	68.6	55.4	68.6	66.5
Apr	52.1	51.8	58.1	60.8	61.1	63.1	63.5	60.9	61.4	51.6	59.6	55.2
May	59.1	59.8	64.5	64.1	66.6	68.2	70.8	67.7	66.4	55.6	64.6	59.5
Jun	59.3	59.6	62.3	65.1	67.2	68.8	68.6	66.9	64.5	56.2	65.7	64.4
Jul	57.9	58.3	63.7	64.4	66.6	68.0	66.9	66.7	65.5	57.4	65.1	63.6
Aug	59.2	59.5	65.7	62.6	65.3	68.7	69.0	67.0	62.3	57.4	64.2	65.6
Sep	60.7	59.4	64.4	66.4	67.2	68.5	68.4	67.5	61.3	60.5	64.9	65.8
Oct	60.9	62.0	66.1	68.1	70.1	68.5	68.4	68.0	61.2	61.7	64.5	47.2
Nov	62.3	60.0	66.4	64.5	69.6	68.0	66.9	68.0	56.1	60.8	64.0	41.4
Dec	60.1	58.0	62.1	68.5	69.1	66.2	64.6	66.3	53.6	61.4	63.0	52.8
Total	58.7	58.7	62.4	64.7	66.8	67.5	67.8	66.4	63.0	56.7	63.8	58.7

Source : The Office of Industrial Economics

Table 7.1-5
Sale of Vehicles

Year	Sale of Vehicles (Unit)				Growth Rate (%)			
	Passenger	Commercial	Motorcycle	Total	Passenger	Commercial	Motorcycle	Total
1987	26,909	74,451	310,579	411,939	22.6	31.7	24.4	25.5
1988	39,232	107,763	494,586	641,581	45.8	44.7	59.3	55.8
1989	47,705	160,436	588,278	796,419	21.6	48.9	18.9	24.1
1990	65,813	238,297	732,848	1,036,958	38.0	48.5	24.6	30.2
1991	66,778	202,052	649,727	918,557	1.5	-15.2	-11.3	-11.4
1992	121,453	241,583	868,157	1,231,193	81.9	19.6	33.6	34.0
1993	172,452	282,548	1,115,946	1,570,946	42.0	17.0	28.5	27.6
1994	154,500	331,345	1,333,041	1,818,886	-10.4	17.3	19.5	15.8
1995	158,701	409,915	1,503,872	2,072,488	2.7	23.7	12.8	13.9
1996	173,606	415,262	1,242,551	1,831,419	9.4	1.3	-17.4	-11.6
1997	132,070	231,198	927,365	1,290,633	-23.9	-44.3	-25.4	-29.5
1998	46,399	97,844	490,829	635,072	-64.9	-57.7	-47.1	-50.8
1999	66,851	151,508	593,676	812,035	44.1	54.9	21.0	27.9
2000	83,127	179,126	796,292	1,058,545	24.4	18.2	34.1	30.4
2001	104,559	192,577	926,460	1,223,596	25.8	7.5	16.4	15.6
2002	126,330	283,073	1,317,000	1,726,403	20.8	47.0	42.2	41.1
2003	179,418	354,037	1,687,000	2,220,455	42.0	25.1	28.1	28.6
2004	209,114	416,764	1,951,000	2,576,878	16.6	17.7	15.7	16.1
2005	185,761	517,677	2,053,000	2,756,438	-11.2	24.2	5.2	7.0
2006	191,405	490,603	1,921,000	2,603,008	3.0	-5.2	-6.4	-5.6
2007	169,559	461,692	1,558,000	2,189,251	-11.4	-5.9	-18.9	-15.9
2008	225,751	388,333	1,749,000	2,363,084	33.1	-15.9	12.3	7.9
2009	235,169	313,703	1,519,000	2,067,872	4.2	-19.2	-13.2	-12.5
2010	338,018	414,866	1,857,000	2,609,884	43.7	32.3	22.3	26.2
2011	298,709	359,973	1,820,000	2,478,682	-11.6	-13.2	-2.0	-5.0

Source : Bank of Thailand (BOT) and The Office of Industrial Economics (OIE)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 7.1-6
GDP, Energy, Import and Export of Goods

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
GDP at Current Prices (Billion Bahts)	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1
GDP at 1988 Prices (Billion Bahts)	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0
Export (Billion Bahts)	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2
Import (Billion Bahts)	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.1	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4
Goods and Services	293.5	475.5	606.9	762.8	880.3	951.6	1,079.3	1,281.9	1,655.2	1,673.6	1,737.3	1,625.4	1,717.5
Energy	40.7	37.6	55.8	81.7	78.6	81.7	87.3	87.2	108.4	159.2	187.0	148.7	189.9
Crude	26.8	21.4	32.6	42.8	39.9	48.6	51.0	55.4	72.1	121.9	166.5	137.1	169.6
Petroleum Products	13.4	15.6	22.3	38.2	38.0	32.4	35.2	30.1	34.1	33.3	15.9	7.0	12.8
Natural Gas													
Coal	0.4	0.5	0.9	0.6	0.7	0.6	1.0	1.7	2.2	4.0	3.8	2.1	4.0
Electricity													
Net Trade (Exports - Imports) (Billion Bahts)	-34.4	-109.5	-146.4	-254.6	-233.2	-208.6	-230.7	-231.4	-357.3	-420.7	-117.6	474.3	307.8
Final Energy Consumption (Billion Bahts)	84.3	140.3	163.8	238.3	279.3	323.7	357.4	390.2	454.9	530.3	580.6	556.3	555.0
Petroleum	83.9	94.1	109.9	132.0	161.6	171.9	188.7	199.0	233.0	280.4	318.7	306.8	309.7
Electricity		45.5	52.7	62.5	73.2	87.4	98.2	111.5	136.2	153.4	162.1	175.4	167.9
Natural Gas	0.1	0.3	0.3	0.6	0.8	1.2	1.5	2.1	3.1	3.4	4.7	4.6	5.9
Coal/Lignite	0.3	0.4	0.9	2.1	2.5	2.8	3.6	4.8	5.8	7.5	7.8	5.9	6.2
Renewable Energy				41.2	41.1	60.5	65.3	72.7	76.8	85.5	87.3	63.6	65.2
Final Energy Consumption (KTOE)	21,599.0	23,746.0	27,872.0	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5	48,746.9	50,111.0	45,455.0	47,155.0
Petroleum	11,302.0	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0	28,381.0	28,983.0	26,215.0	26,845.0
Electricity	2,121.0	2,395.0	2,791.0	3,253.0	3,767.0	4,200.0	4,702.0	5,324.0	6,010.0	6,670.0	7,090.0	7,024.0	7,131.0
Natural Gas	16.0	43.0	109.0	259.0	338.0	446.0	507.0	599.0	803.0	853.0	1,047.0	978.0	1,282.0
Coal/Lignite	698.0	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0	4,633.0	4,492.0	3,353.0	3,575.0
Renewable Energy	7,462.0	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5	8,209.9	8,499.0	7,885.0	8,322.0

Analysis

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Growth Rate (%)													
GDP (Constant Prices)	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4
Final Energy Consumption (KTOE) : FEC	10.0	9.9	17.4	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3	3.7
FEC : GDP (TOE : M.Bahts)	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5	16.4
Ratios (%)													
FEC Value : GDP at current Market Prices	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0	12.0
Value of Imported Energy : GDP at current Market Prices	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2	4.1
Value of Imported Energy : Total Import	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4	10.0
Value of Imported Petroleum and Natural Gas : Total Import	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1	9.6

Source : NESDB, BOT, EPPO

Table 7.1-6 (Cont.)
GDP, Energy, Import and Export of Goods

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
GDP at Current Prices (Billion Bahts)	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1
GDP at 1988 Prices (Billion Bahts)	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7
Export (Billion Bahts)	2,773.8	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,176.3	6,708.0
Import (Billion Bahts)	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7
Goods and Services	2,153.9	2,396.4	2,412.6	2,703.4	3,205.8	3,963.9	4,021.7	3,988.2	4,787.3	3,825.1	4,906.3	5,761.4
Energy	340.2	355.9	362.2	435.4	595.3	790.1	921.2	882.0	1,175.2	776.9	950.3	1,221.3
Crude	285.9	284.4	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5	977.4
Petroleum Products	36.8	28.8	27.9	33.2	44.7	59.8	62.4	50.3	41.1	29.1	66.8	94.3
Natural Gas	7.8	30.6	35.1	42.6	46.1	62.8	77.8	78.9	90.5	84.2	84.5	93.5
Coal	5.1	7.5	7.9	9.4	12.3	15.4	18.9	29.7	36.5	36.9	39.4	42.3
Electricity	4.7	4.7	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6	8.2	13.9
Net Trade (Exports - Imports) (Billion Bahts)	279.7	132.4	149.1	186.9	72.6	-315.3	-5.6	431.9	-111.1	592.6	319.7	-274.7
Final Energy Consumption (Billion Bahts)	689.9	752.4	791.2	884.4	1,024.2	1,240.7	1,447.5	1,509.7	1,676.6	1,584.4	1,808.4	1,946.1
Petroleum	407.9	430.5	451.6	515.3	605.4	774.4	916.3	956.7	1,092.1	960.1	1,105.9	1,220.6
Electricity	199.1	232.7	247.5	267.6	302.8	330.1	387.2	392.7	397.9	431.2	474.7	471.6
Natural Gas	10.3	11.4	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3	68.7	97.7
Coal/Lignite	5.7	7.6	8.8	10.0	13.3	18.4	18.0	23.1	28.7	28.6	29.7	30.2
Renewable Energy	67.0	70.3	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3	129.4	126.0
Final Energy Consumption (KTOE)	47,882.0	49,008.0	52,754.0	56,073.0	61,456.0	62,802.0	62,648.0	65,639.0	66,937.0	68,838.0	72,722.0	74,607.0
Petroleum	26,716.0	27,290.0	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0	33,326.0
Electricity	7,691.0	8,169.0	8,798.0	9,394.0	10,166.0	10,717.0	11,199.0	11,701.0	11,928.0	11,869.0	13,112.0	13,065.0
Natural Gas	1,818.0	1,690.0	1,872.0	2,033.0	2,427.0	2,451.0	2,649.0	3,320.0	3,993.0	4,853.0	5,764.0	7,252.0
Coal/Lignite	3,058.0	3,416.0	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,300.0	7,702.0	8,009.0	7,209.0
Renewable Energy	8,599.0	8,443.0	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,645.0	12,245.0	12,455.0	13,418.0	13,755.0

Analysis

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Growth Rate (%)												
GDP (Constant Prices)	4.8	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1
Final Energy Consumption (KTOE) : FEC	1.5	2.4	7.6	6.3	9.6	2.2	-0.2	4.8	2.0	2.8	5.6	2.6
FEC : GDP (TOE : M.Bahts)	15.9	15.9	16.3	16.2	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2
Ratios (%)												
FEC Value : GDP at current Market Prices	14.0	14.7	14.5	14.9	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.5
Value of Imported Energy : GDP at current Market Prices	6.9	6.9	6.6	7.4	9.2	11.1	11.7	10.3	12.9	8.6	9.4	11.6
Value of Imported Energy : Total Import	13.6	12.9	13.1	13.9	15.7	16.6	18.6	18.1	19.7	16.9	16.2	17.5
Value of Imported Petroleum and Natural Gas : Total Import	13.3	12.5	12.6	13.4	15.2	16.1	18.1	17.3	19.0	16.0	15.4	16.7

Source : NESDB, BOT, EPPO

Table 7.2.1
Final Energy Consumption per Capita

	1987	1988	1989	1990	1991	1992	1993	1994
GDP at Current Prices (Billion Bahts)	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3
GDP at 1988 Prices (Billion Bahts)	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0
Population (Million Persons)	53.4	54.3	55.2	55.8	56.6	57.3	58.0	58.7
Electricity Consumption (GWh)	24,894.2	28,110.4	32,749.1	38,174.0	44,203.7	49,289.8	55,183.6	62,496.3
Export (Billion Bahts)	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6
Import (Billion Bahts)	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.0
Goods and Services	293.5	475.5	606.9	762.8	880.3	951.6	1,079.3	1,281.9
Energy	40.7	37.6	55.8	81.7	78.6	81.7	87.3	87.2
Crude	26.8	21.4	32.6	42.8	39.9	48.6	51.0	55.4
Petroleum Products	13.4	15.6	22.3	38.2	38.0	32.4	35.2	30.1
Natural Gas								
Coal	0.4	0.5	0.9	0.6	0.7	0.6	1.0	1.7
Electricity								
Final Energy Consumption (Billion Bahts)	84.3	140.3	163.8	238.3	279.3	323.7	357.4	390.2
Petroleum	83.9	94.1	109.9	132.0	161.6	171.9	188.7	199.0
Electricity		45.5	52.7	62.5	73.2	87.4	98.2	111.5
Natural Gas	0.1	0.3	0.3	0.6	0.8	1.2	1.5	2.1
Coal/Lignite	0.3	0.4	0.9	2.1	2.5	2.8	3.6	4.8
Renewable Energy				41.2	41.1	60.5	65.3	72.7
Final Energy Consumption (KTOE)	21,599.0	23,746.0	27,872.0	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6
Petroleum	11,302.0	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0
Electricity	2,121.0	2,395.0	2,791.0	3,253.0	3,767.0	4,200.0	4,702.0	5,324.0
Natural Gas	16.0	43.0	109.0	259.0	338.0	446.0	507.0	599.0
Coal/Lignite	698.0	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0
Renewable Energy	7,462.0	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6

Analysis

	1987	1988	1989	1990	1991	1992	1993	1994
Growth Rate (%)								
GDP (Constant Prices)	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0
Final Energy Consumption (KTOE) : FEC	10.0	9.9	17.4	10.0	6.2	8.5	4.7	9.1
FEC : GDP (TOE : M.Bahts)	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0
Ratios (%)								
FEC per Capita (TOE/Person)	0.40	0.44	0.50	0.55	0.58	0.62	0.64	0.69
Electricity per Capita (kWh/Person)	465.9	517.4	593.1	683.6	781.3	860.3	951.3	1,064.4
FEC Value : GDP at current Market Prices	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8
Value of Imported Energy : GDP at current Market Prices	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4
Value of Imported Energy : Total Import	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4
Value of Imported Petroleum : Total Import	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2

Source : NESDB, BOT, EPPO

Table 7.2.1 (Cont.)
Final Energy Consumption per Capita

	1995	1996	1997	1998	1999	2000	2001	2002
GDP at Current Prices (Billion Bahts)	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1	4,922.7	5,133.5	5,450.6
GDP at 1988 Prices (Billion Bahts)	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0	3,008.4	3,073.6	3,237.0
Population (Million Persons)	59.4	60.0	60.6	61.2	61.8	62.2	62.8	63.4
Electricity Consumption (GWh)	70,793.5	76,998.5	81,878.5	79,762.0	80,820.7	87,597.2	92,853.2	100,071.0
Export (Billion Bahts)	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2	2,773.8	2,884.7	2,923.9
Import (Billion Bahts)	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4	2,494.1	2,752.3	2,774.8
Goods and Services	1,655.2	1,673.6	1,737.3	1,625.4	1,717.5	2,153.9	2,396.4	2,412.6
Energy	108.4	159.2	187.0	148.7	189.9	340.2	355.9	362.2
Crude	72.1	121.9	166.5	137.1	169.6	285.9	284.4	287.0
Petroleum Products	34.1	33.3	15.9	7.0	12.8	36.8	28.8	27.9
Natural Gas						7.8	30.6	35.1
Coal	2.2	4.0	3.8	2.1	4.0	5.1	7.5	7.9
Electricity			0.7	2.5	3.4	4.7	4.7	4.5
Final Energy Consumption (Billion Bahts)	454.9	530.3	580.6	556.3	555.0	689.9	752.4	791.2
Petroleum	233.0	280.4	318.7	306.8	309.7	407.9	430.5	451.6
Electricity	136.2	153.4	162.1	175.4	167.9	199.1	232.7	247.5
Natural Gas	3.1	3.4	4.7	4.6	5.9	10.3	11.4	13.4
Coal/Lignite	5.8	7.5	7.8	5.9	6.2	5.7	7.6	8.8
Renewable Energy	76.8	85.5	87.3	63.6	65.2	67.0	70.3	69.9
Final Energy Consumption (KTOE)	44,887.5	48,746.9	50,111.0	45,455.0	47,155.0	47,882.0	49,008.0	52,754.0
Petroleum	26,134.0	28,381.0	28,983.0	26,215.0	26,845.0	26,716.0	27,290.0	28,898.0
Electricity	6,010.0	6,670.0	7,090.0	7,024.0	7,131.0	7,691.0	8,169.0	8,798.0
Natural Gas	803.0	853.0	1,047.0	978.0	1,282.0	1,818.0	1,690.0	1,872.0
Coal/Lignite	3,814.0	4,633.0	4,492.0	3,353.0	3,575.0	3,058.0	3,416.0	4,143.0
Renewable Energy	8,126.5	8,209.9	8,499.0	7,885.0	8,322.0	8,599.0	8,443.0	9,043.0

Analysis								
	1995	1996	1997	1998	1999	2000	2001	2002
Growth Rate (%)								
GDP (Constant Prices)	9.2	5.9	-1.4	-10.5	4.4	4.8	2.2	5.3
Final Energy Consumption (KTOE) : FEC	11.2	8.6	2.8	-9.3	3.7	1.5	2.4	7.6
FEC : GDP (TOE : M.Bahts)	15.3	15.6	16.3	16.5	16.4	15.9	15.9	16.3
Ratios (%)								
FEC per Capita (TOE/Person)	0.76	0.81	0.83	0.74	0.76	0.77	0.78	0.83
Electricity per Capita (kWh/Person)	1,191.8	1,283.2	1,351.1	1,303.3	1,307.7	1,407.5	1,477.7	1,577.9
FEC Value : GDP at current Market Prices	10.9	11.5	12.3	12.0	12.0	14.0	14.7	14.5
Value of Imported Energy : GDP at current Market Prices	2.6	3.5	4.0	3.2	4.1	6.9	6.9	6.6
Value of Imported Energy : Total Import	6.1	8.7	9.7	8.4	10.0	13.6	12.9	13.1
Value of Imported Petroleum : Total Import	6.0	8.5	9.5	8.1	9.6	12.9	11.4	11.3

Source : NESDB, BOT, EPPO

Table 7.2.1 (Cont.)
Final Energy Consumption per Capita

	2003	2004	2005	2006	2007	2008	2009	2010	2011
GDP at Current Prices (Billion Bahts)	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1
GDP at 1988 Prices (Billion Bahts)	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7
Population (Million Persons)	64.0	64.5	65.1	65.6	66.0	66.5	66.9	67.3	67.6
Electricity Consumption (GWh)	106,781.1	115,152.5	121,252.8	127,876.3	133,100.2	135,520.3	135,180.7	149,302.1	148,858.1
Export (Billion Bahts)	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,176.3	6,708.0
Import (Billion Bahts)	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7
Goods and Services	2,703.4	3,205.8	3,963.9	4,021.7	3,988.2	4,787.3	3,825.1	4,906.3	5,761.4
Energy	435.4	595.3	790.1	921.2	882.0	1,175.2	776.9	950.3	1,221.3
Crude	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0	751.5	977.4
Petroleum Products	33.2	44.7	59.8	62.4	50.3	41.1	29.1	66.8	94.3
Natural Gas	42.6	46.1	62.8	77.8	78.9	90.5	84.2	84.5	93.5
Coal	9.4	12.3	15.4	18.9	29.7	36.5	36.9	39.4	42.3
Electricity	4.2	5.7	7.1	8.3	7.4	4.5	3.6	8.2	13.9
Final Energy Consumption (Billion Bahts)	884.4	1,024.2	1,240.7	1,447.5	1,509.7	1,676.6	1,584.4	1,808.4	1,946.1
Petroleum	515.3	605.4	774.4	916.3	956.7	1,092.1	960.1	1,105.9	1,220.6
Electricity	267.6	302.8	330.1	387.2	392.7	397.9	431.2	474.7	471.6
Natural Gas	16.4	16.4	22.3	28.9	35.1	53.9	49.3	68.7	97.7
Coal/Lignite	10.0	13.3	18.4	18.0	23.1	28.7	28.6	29.7	30.2
Renewable Energy	75.1	86.2	95.5	97.1	102.1	104.0	115.3	129.4	126.0
Final Energy Consumption (KTOE)	56,073.0	61,456.0	62,802.0	62,648.0	65,639.0	66,937.0	68,838.0	72,722.0	74,607.0
Petroleum	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,471.0	31,959.0	32,419.0	33,326.0
Electricity	9,394.0	10,166.0	10,717.0	11,199.0	11,701.0	11,928.0	11,869.0	13,112.0	13,065.0
Natural Gas	2,033.0	2,427.0	2,451.0	2,649.0	3,320.0	3,993.0	4,853.0	5,764.0	7,252.0
Coal/Lignite	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,300.0	7,702.0	8,009.0	7,209.0
Renewable Energy	9,751.0	10,516.0	10,824.0	10,993.0	11,645.0	12,245.0	12,455.0	13,418.0	13,755.0

Analysis

	2003	2004	2005	2006	2007	2008	2009	2010	2011
Growth Rate (%)									
GDP (Constant Prices)	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1
Final Energy Consumption (KTOE) : FEC	6.3	9.6	2.2	-0.2	4.8	2.0	2.8	5.6	2.6
FEC : GDP (TOE : M.Bahts)	16.2	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2
Ratios (%)									
FEC per Capita (TOE/Person)	0.88	0.95	0.96	0.96	1.0	1.0	1.0	1.1	1.1
Electricity per Capita (kWh/Person)	1,668.9	1,784.5	1,862.6	1,950.1	2,015.4	2,038.5	2,020.5	2,218.0	2,202.1
FEC Value : GDP at current Market Prices	14.9	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.5
Value of Imported Energy : GDP at current Market Prices	7.4	9.2	11.1	11.7	10.3	12.9	8.6	9.4	11.6
Value of Imported Energy : Total Import	13.9	15.7	16.6	18.6	18.1	19.7	16.9	16.2	17.5
Value of Imported Petroleum : Total Import	12.1	14.0	14.8	16.5	15.7	17.5	14.2	14.0	15.3

Source : NESDB, BOT, EPPO

Table 7.2.2
Electricity Consumption per Capita

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
GDP at Current Prices (Billion Bahts)	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1
GDP at 1988 Prices (Billion Bahts)	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0
Population (Million Persons)	53.4	54.3	55.2	55.8	56.6	57.3	58.0	58.7	59.4	60.0	60.6	61.2	61.8
Electricity Consumption (GWh)	24,894.2	28,110.4	32,749.1	38,174.0	44,203.7	49,289.8	55,183.6	62,496.3	70,793.5	76,998.5	81,878.5	79,762.0	80,820.7
Export (Billion Bahts)	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2
Import (Billion Bahts)	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.0	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4
Final Energy Consumption (Billion Bahts)	84.3	140.3	163.8	238.3	279.3	323.7	357.4	390.2	454.9	530.3	580.6	556.3	555.0
Final Energy Consumption (KTOE)	21,599.0	23,746.0	27,872.0	30,666.0	32,556.0	35,328.0	36,988.3	40,354.6	44,887.5	48,746.9	50,111.0	45,455.0	47,155.0

Analysis

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Growth Rate (%)													
GDP (Constant Prices)	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5	4.4
Final Energy Consumption (KTOE) : FEC	10.0	9.9	17.4	10.0	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3	3.7
FEC : GDP (TOE : M.Bahts)	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5	16.4
Ratios (%)													
FEC per Capita (TOE/Person)	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7	0.8
Electricity per Capita (kWh/Person)	465.9	517.4	593.1	683.6	781.3	860.3	951.3	1,064.4	1,191.8	1,283	1,351	1,303	1,308
FEC Value : GDP at current Market Prices	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0	12.0
Value of Imported Energy : GDP at current Market Prices	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2	4.1
Value of Imported Energy : Total Import	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4	10.0
Value of Imported Petroleum : Total Import	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1	9.6

Source : NESDB, BOT, EPPO

Table 7.2.2 (Cont.)
Electricity Consumption per Capita

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
GDP at Current Prices (Billion Bahts)	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,844.9	8,525.2	9,080.5	9,041.6	10,104.8	10,540.1
GDP at 1988 Prices (Billion Bahts)	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,054.5	4,259.0	4,364.8	4,263.1	4,596.1	4,599.7
Population (Million Persons)	62.2	62.8	63.4	64.0	64.5	65.1	65.6	66.0	66.5	66.9	67.3	67.6
Electricity Consumption (GWh)	87,597.2	92,853.2	100,071.0	106,781.1	115,152.5	121,252.8	127,876.3	133,100.2	135,520.3	135,180.7	149,302.1	148,858.1
Export (Billion Bahts)	2,773.8	2,884.7	2,923.9	3,325.6	3,873.7	4,438.7	4,937.4	5,302.1	5,851.4	5,194.6	6,176.3	6,708.0
Import (Billion Bahts)	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,962.5	4,602.0	5,856.6	6,982.7
Final Energy Consumption (Billion Bahts)	689.9	752.4	791.2	884.4	1,024.2	1,240.7	1,447.5	1,509.7	1,676.6	1,584.4	1,808.4	1,946.1
Final Energy Consumption (KTOE)	47,882.0	49,008.0	52,754.0	56,073.0	61,456.0	62,802.0	62,648.0	65,639.0	66,937.0	68,838.0	72,722.0	74,607.0

Analysis

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Growth Rate (%)												
GDP (Constant Prices)	4.8	2.2	5.3	7.1	6.3	4.6	5.1	5.0	2.5	-2.3	7.8	0.1
Final Energy Consumption (KTOE) : FEC	1.5	2.4	7.6	6.3	9.6	2.2	-0.2	4.8	2.0	2.8	5.6	2.6
FEC : GDP (TOE : M.Bahts)	15.9	15.9	16.3	16.2	16.7	16.3	15.5	15.4	15.3	16.1	15.8	16.2
Ratios (%)												
FEC per Capita (TOE/Person)	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Electricity per Capita (kWh/Person)	1,407	1,478	1,578	1,669	1,784	1,863	1,950	2,015	2,038	2,021	2,218	2,202
FEC Value : GDP at current Market Prices	14.0	14.7	14.5	14.9	15.8	17.5	18.5	17.7	18.5	17.5	17.9	18.5
Value of Imported Energy : GDP at current Market Prices	6.9	6.9	6.6	7.4	9.2	11.1	11.7	10.3	12.9	8.6	9.4	11.6
Value of Imported Energy : Total Import	13.6	12.9	13.1	13.9	15.7	16.6	18.6	18.1	19.7	16.9	16.2	17.5
Value of Imported Petroleum : Total Import	12.9	11.4	11.3	12.1	14.0	14.8	16.5	15.7	17.5	14.2	14.0	15.3

Source : NESDB, BOT, EPPO



ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 8

PETROLEUM PRICES

บทที่ 8

ราคาน้ำมันปิโตรเลียม





บทที่ 8

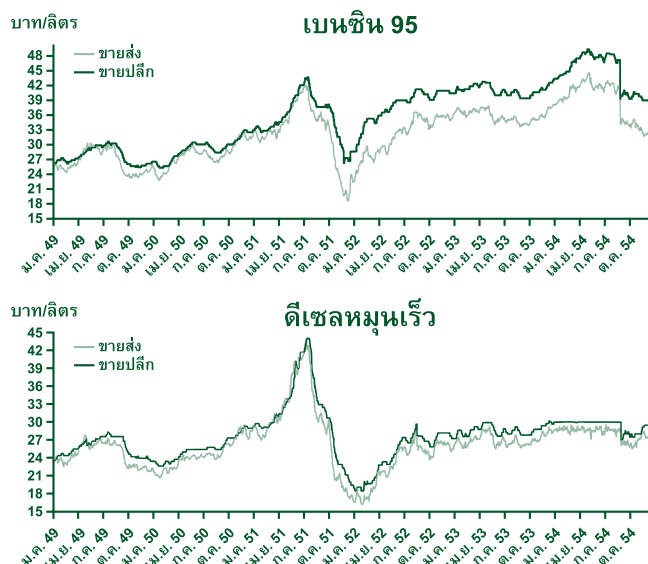
ราคาน้ำมันปิโตรเลียม

โครงสร้างราคาน้ำมันของไทย ราคาน้ำมันของไทยประกอบด้วย ราคาหน้าโรงกลั่น ราคาขายส่ง และราคาขายปลีก ในส่วนของราคาขายส่ง ประกอบด้วย ราคาหน้าโรงกลั่น รวมภาษีสรรพสามิต ภาษีเทศบาล เงินนำส่งเข้ากองทุนน้ำมันเชื้อเพลิง เงินนำส่งเข้ากองทุนเพื่อส่งเสริมการอนุรักษ์พลังงาน และภาษีมูลค่าเพิ่ม ส่วนราคาขายปลีก ประกอบด้วย ราคาขายส่ง รวมค่าการตลาด และภาษีมูลค่าเพิ่ม

การกำหนดราคาน้ำมันสำเร็จรูปของโรงกลั่นไทย การกำหนดราคาขายส่งน้ำมันสำเร็จรูป (Wholesale) ใช้หลักการเสมอภาคกับการนำเข้า (Import Parity Basis) และใช้ตลาดสิงคโปร์เป็นตลาดอ้างอิง การกำหนดราคาน้ำมันสำเร็จรูป เนื่องจากตลาดสิงคโปร์เป็นตลาดส่งออกที่ใหญ่ที่สุดในภูมิภาคเอเชียซึ่งอยู่ใกล้ไทยมากที่สุด จึงทำให้ต้นทุนการนำเข้าของไทยอยู่ในระดับต่ำสุด และมีปริมาณการซื้อขายในระดับสูง ทำให้ยากต่อการปั่นราคา ส่งผลให้ราคามีความผันผวนน้อยกว่าตลาดอื่น ตลอดจนมีการเปลี่ยนแปลงราคาที่สุดอดคล้องกับตลาดอื่นทั่วโลก

ในการกำหนดราคา หากโรงกลั่นกำหนดราคาสูงกว่าราคานำเข้าจากสิงคโปร์ ผู้ค้าจะนำเข้าน้ำมันแทนการซื้อจากโรงกลั่นในประเทศ แต่หากกำหนดราคาต่ำกว่าราคานำเข้าจะทำให้โรงกลั่นได้รับผลตอบแทนต่ำกว่าที่ควร และจะไม่เกิดแรงจูงใจในการลงทุนธุรกิจการกลั่นในประเทศ นอกจากนี้จะทำให้โรงกลั่นมีความต้องการส่งออกมากกว่าขายในประเทศ

ราคาขายปลีกและขายส่งน้ำมันสำเร็จรูปในกรุงเทพมหานคร



Chapter 8

Petroleum Prices

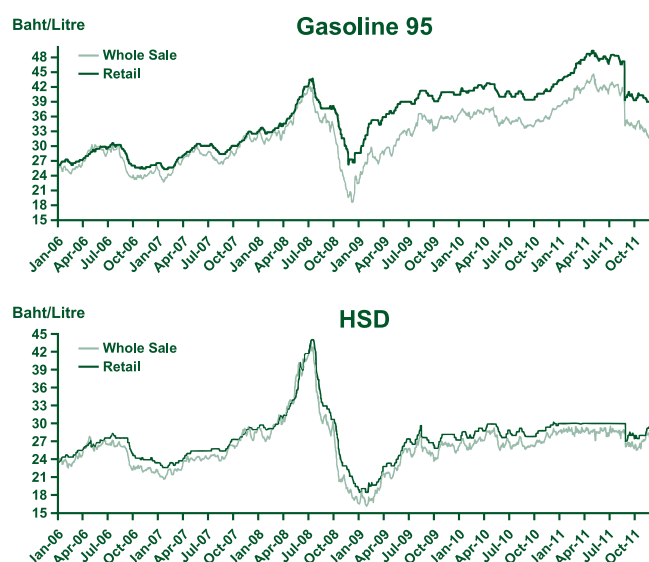


Oil Price Structures in Thailand. Oil prices in Thailand can be mainly divided into ex-refinery price, wholesale price and retail price. The wholesale price comprises the ex-refinery price plus the excise tax, municipality tax, contribution to the Oil Fund, contribution to the Energy Conservation Promotion Fund (ENCON Fund), and value added tax (VAT). The retail price comprises the wholesale price plus the marketing margin and VAT

Determination of Petroleum Product Prices by Thai Refineries. The import parity basis is applied to the determination of wholesale prices of petroleum products. Singapore market is used as the reference market in determining prices of petroleum products because it is the largest export market in the Asian region which is nearest to Thailand and hence the lowest cost of imported oil for Thailand; moreover, the trading volume in the market is enormous, making it difficult to speculate in oil prices, and thus price volatility is less than other markets. Besides, the change in prices in Singapore market is in line with other markets worldwide.

In setting the prices, if the prices set by refineries are higher than import prices from Singapore, oil traders will import oil instead of buying it from domestic refineries. On the contrary, if the prices are set lower than import prices, the rate of return for domestic refineries will be lower than what it should be, making investment in oil refining business in Thailand unattractive. Besides, the refineries would then wish to export their products rather than selling them within the country.

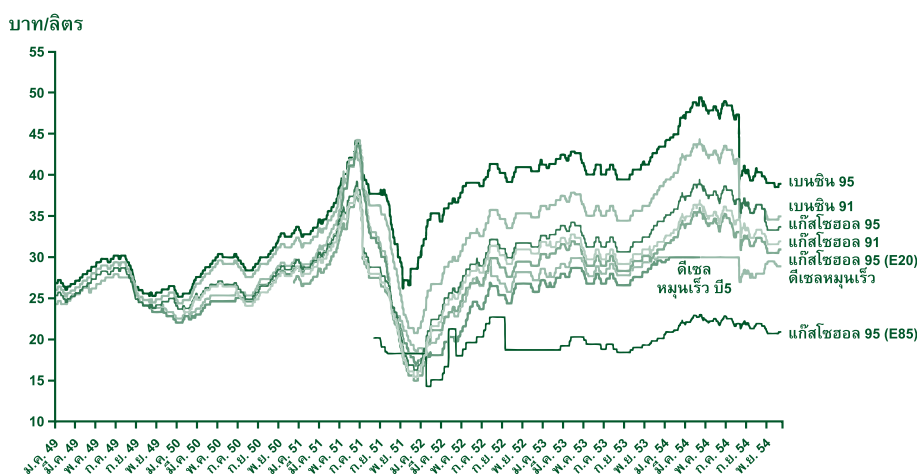
Retail and Wholesale Prices of Petroleum Products in Bangkok



การเปลี่ยนแปลงราคาน้ำมันขายปลีกของไทย ขึ้นลงตามการประกาศราคาหน้าโรงกลั่น โดยการกำหนดราคาน้ำมันของโรงกลั่นขึ้นอยู่กับ การเปลี่ยนแปลงของราคาน้ำมันสำเร็จรูปในตลาดสิงคโปร์ และอัตราแลกเปลี่ยน (หรือค่าเงินบาท) ซึ่งเป็นต้นทุนในการนำเข้าน้ำมันเชื้อเพลิง

ในช่วงก่อนยกเลิกการควบคุมราคาขายปลีก รัฐบาลได้ใช้ระบบกองทุนน้ำมันเชื้อเพลิงในการรักษาระดับราคาขายส่งที่ออกจากโรงกลั่นและราคานำเข้าให้อยู่ในระดับคงที่ ส่งผลให้ราคาขายปลีกไม่เปลี่ยนแปลง หลังจากมีการยกเลิกการควบคุมราคา ราคาขายส่งได้มีการเปลี่ยนแปลงตามราคาหน้าโรงกลั่น โดยโรงกลั่นเป็นผู้กำหนดราคาซึ่งส่งผลให้ราคาขายปลีกมีการเปลี่ยนแปลงตามในที่สุด

ราคาขายปลีกน้ำมันสำเร็จรูปในกรุงเทพมหานคร



น้ำมันสำเร็จรูปที่ขายปลีกอยู่ในสถานีบริการของประเทศไทย มีอยู่ 2 ชนิดหลัก ๆ ได้แก่ เบนซินและดีเซล รัฐบาลไทยได้สนับสนุนให้มีการใช้พลังงานทดแทน โดยลดการจัดเก็บเงินเข้ากองทุนน้ำมันเชื้อเพลิงในกลุ่มน้ำมันแก๊สโซฮอล์และไบโอดีเซล เพื่อเป็นการจูงใจให้ประชาชนหันมาใช้พลังงานทดแทนมากขึ้น มีผลให้เกิดส่วนต่างราคาขายปลีกเบนซินและแก๊สโซฮอล์แต่ละประเภท รวมถึงดีเซลหมุนเร็วและไบโอดีเซล

ในปี 2554 ราคาขายปลีกเฉลี่ยของน้ำมันชนิดต่าง ๆ เป็นดังนี้

หน่วย : บาทต่อลิตร

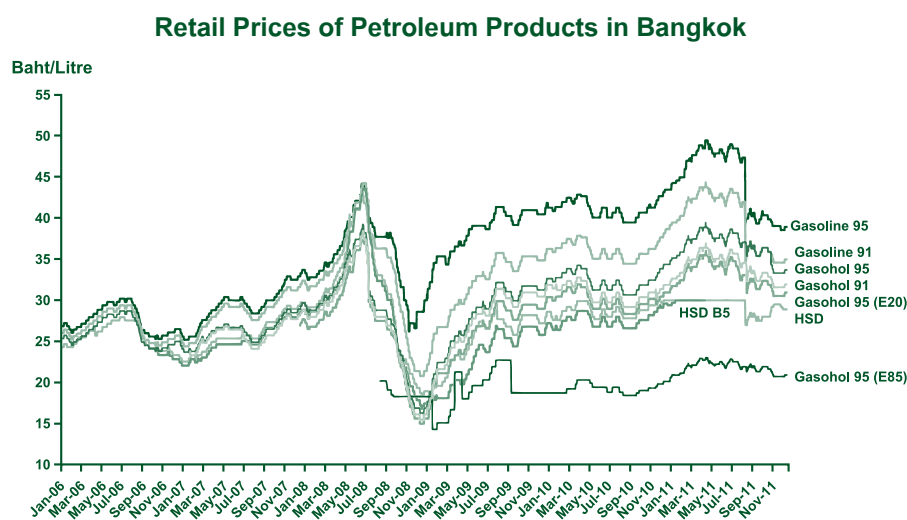
ชนิด	เบนซิน	แก๊สโซฮอล์ E10	แก๊สโซฮอล์ E20	แก๊สโซฮอล์ E85
ออกเทน 95	44.64	36.52	32.94	21.75
ออกเทน 91	39.72	33.96	-	-

ราคาขายปลีกเฉลี่ยของน้ำมันดีเซลหมุนเร็ว อยู่ที่ระดับ 29.45 บาทต่อลิตร น้ำมันไบโอดีเซล บี 5 ราคาเฉลี่ยอยู่ที่ระดับ 29.95 บาทต่อลิตร

ทั้งนี้รัฐบาลได้ประกาศปรับราคาก๊าซ LPG ในภาคอุตสาหกรรมให้สะท้อนต้นทุนโรงกลั่นน้ำมัน ตั้งแต่เดือนกรกฎาคม 2554 โดยปรับราคาขายปลีกไตรมาสละ 3 บาทต่อกิโลกรัม จำนวน 4 ครั้ง ทำให้ในปี 2554 ราคาขายปลีกเฉลี่ยของก๊าซ LPG ภาคอุตสาหกรรม อยู่ที่ระดับ 20.38 บาทต่อกิโลกรัม ในขณะที่ราคาขายปลีกเฉลี่ยก๊าซ LPG ภาคครัวเรือนและขนส่ง อยู่ที่ระดับ 18.13 บาทต่อกิโลกรัม

Adjustment of Retail Oil Prices in Thailand. Retail oil prices will increase or decrease in line with the ex-refinery price announcement. The determination of ex-refinery prices will, in turn, depend on the change in petroleum product prices in Singapore market and the rate of exchange (or the value of Thai Baht), which constitute the cost of petroleum product import.

Prior to the deregulation of retail oil prices, the government used the Oil Fund mechanism to stabilize the levels of wholesale prices (ex-refinery) and imported oil prices, and thus the retail prices remain unchanged. After the oil price deregulation, the wholesale prices will change in line with the ex-refinery prices set by the refineries, resulting in fluctuations in retail oil prices accordingly.



Two main petroleum products being retailed at service stations in Thailand are gasoline and diesel. As the Thai government has encouraged the use of alternative energy by reducing the rates of contribution to the Oil Fund imposed on gasohol and biodiesel to induce greater use of alternative energy by the general public, there is significant difference between the retail price of each type of gasoline (with Octane 95/91) and that of its alternate gasohol, and so is the retail price difference between high speed diesel and biodiesel.

In 2011, the average retail price of each oil product was as follows:

Unit : Baht/litre

Product Type	Gasoline	Gasohol (E10)	Gasohol (E20)	Gasohol (E85)
Octane 95	44.64	36.52	32.94	21.75
Octane 91	39.72	33.96	-	-

The average retail price of high speed diesel was 29.45 Baht/litre, while that of biodiesel (B5) was 29.95 Baht/litre.

Thai government has been deregulated the retail price of LPG in industry step by step, increasing for 3 baht/kg/quarter since July 2011. Then the average price of LPG industry became 20.38 baht/kg at the end of the year, but not the other LPG prices, remaining at 18.13 baht/kg.

Table 8.1-1
Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2007	68.60	69.41	34.35	34.69	22.69	23.13	0.29	0.30	46.92	47.61
Jan	69.91	70.85	35.76	36.10	23.15	23.58	0.30	0.30	46.33	47.02
Feb	69.46	70.37	35.53	35.85	23.06	23.47	0.29	0.30	46.34	47.01
Mar	67.75	68.66	34.85	35.18	22.75	23.18	0.30	0.30	46.05	46.72
Apr	68.76	69.70	34.66	35.00	22.77	23.21	0.29	0.30	46.66	47.35
May	68.11	67.54	34.41	34.74	22.49	22.92	0.28	0.29	46.37	47.06
Jun	68.13	69.06	34.37	34.70	22.26	22.69	0.28	0.28	45.99	46.68
Jul	68.01	68.95	33.50	33.84	21.99	22.42	0.27	0.28	45.84	46.53
Aug	68.15	69.08	33.98	34.31	22.20	22.63	0.29	0.30	46.15	46.83
Sep	68.54	69.47	34.04	34.38	22.40	22.84	0.29	0.30	47.16	47.86
Oct	69.26	70.21	33.96	34.29	23.04	23.50	0.29	0.30	48.19	48.90
Nov	69.62	70.56	33.67	34.00	23.16	23.62	0.30	0.31	49.35	50.07
Dec	67.49	68.43	33.49	33.83	22.98	23.44	0.30	0.30	48.58	49.29
2008	61.15	62.05	33.14	33.49	23.32	23.79	0.32	0.45	48.56	49.30
Jan	64.78	65.70	32.98	33.31	22.92	23.39	0.30	0.31	48.38	49.11
Feb	63.54	64.45	32.40	32.74	22.84	23.31	0.30	1.84	47.65	48.37
Mar	62.40	63.31	31.24	31.58	22.43	22.90	0.31	0.31	48.35	49.08
Apr	62.04	62.94	31.37	31.71	22.89	23.36	0.30	0.31	49.35	50.08
May	62.54	63.44	31.89	32.23	23.23	23.70	0.30	0.31	49.53	50.27
Jun	64.69	65.62	32.98	33.32	23.99	24.48	0.31	0.31	51.20	51.95
Jul	66.04	66.98	33.28	33.62	24.36	24.86	0.31	0.32	52.36	53.12
Aug	63.49	64.39	33.63	33.97	23.87	24.34	0.31	0.31	50.32	51.04
Sep	61.19	62.08	34.07	34.41	23.74	24.20	0.32	0.32	48.91	49.63
Oct	57.93	58.84	34.20	34.55	23.08	23.54	0.34	0.35	45.53	46.26
Nov	53.32	54.14	34.86	35.22	23.02	23.48	0.36	0.37	44.21	44.94
Dec	51.87	52.75	34.80	35.16	23.46	23.93	0.38	0.39	46.97	47.75
2009	53.12	54.00	34.10	34.47	23.33	23.82	0.36	0.54	47.32	48.10
Jan	49.83	50.69	34.68	35.05	23.14	23.61	0.38	0.39	45.80	46.57
Feb	50.31	51.17	35.09	35.46	22.99	23.45	0.38	0.39	44.73	45.47
Mar	50.32	51.17	35.55	35.92	23.12	23.58	0.36	0.37	46.25	47.00
Apr	51.47	52.33	35.22	35.59	23.29	23.76	0.36	0.36	46.23	46.98
May	52.95	53.83	34.35	34.72	23.40	23.89	0.36	2.33	46.84	47.60
Jun	55.31	56.23	33.90	34.28	23.23	23.72	0.35	0.36	47.42	48.20
Jul	55.20	56.10	33.81	34.19	23.21	23.70	0.36	0.36	47.52	48.29
Aug	55.76	56.67	33.78	34.16	23.31	23.81	0.35	0.36	48.08	48.87
Sep	54.68	55.58	33.59	33.97	23.47	23.97	0.37	0.37	48.77	49.56
Oct	53.46	54.36	33.17	33.55	23.60	24.11	0.37	0.37	49.01	49.81
Nov	54.74	55.64	33.04	33.42	23.67	24.18	0.37	0.38	49.18	49.99
Dec	53.39	54.28	32.99	33.37	23.50	24.01	0.37	0.37	48.04	48.83

Table 8.1-1 (Cont.)
Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2010	48.52	49.38	31.49	31.87	22.97	23.48	0.36	0.37	41.68	42.43
Jan	52.90	53.79	32.80	33.16	23.37	23.87	0.36	0.37	47.07	47.86
Feb	51.36	52.24	32.91	33.29	23.18	23.68	0.36	0.37	44.93	45.70
Mar	48.42	49.28	32.27	32.65	22.93	23.44	0.35	0.36	43.69	44.45
Apr	48.95	49.81	32.05	32.42	23.07	23.58	0.34	0.35	42.83	43.58
May	46.95	47.82	32.15	32.54	22.95	23.46	0.35	0.36	40.20	40.94
Jun	47.38	48.23	32.23	32.61	22.93	23.41	0.35	0.36	39.25	39.97
Jul	48.88	49.73	32.09	32.47	23.17	23.68	0.36	0.37	40.88	41.62
Aug	49.24	50.10	31.51	31.89	23.13	23.65	0.37	0.38	40.58	41.31
Sep	47.48	48.34	30.60	30.98	22.78	23.31	0.36	0.37	39.81	40.55
Oct	46.99	47.86	29.73	30.11	22.67	23.20	0.36	0.37	41.16	41.91
Nov	47.23	48.09	29.65	30.02	22.73	23.26	0.36	0.37	40.46	41.20
Dec	46.45	47.30	29.88	30.26	22.72	23.26	0.36	0.36	39.32	40.05
2011	48.37	49.24	30.25	30.63	23.94	24.50	0.38	0.39	41.97	42.73
Jan	47.72	48.58	30.34	30.72	23.44	23.98	0.37	0.37	40.41	41.13
Feb	49.02	49.89	30.48	30.86	23.75	24.29	0.37	0.38	41.53	42.28
Mar	48.57	49.45	30.13	30.51	23.63	24.18	0.37	0.38	42.06	42.82
Apr	48.67	49.55	29.81	30.20	23.80	24.37	0.36	0.37	42.98	43.75
May	48.89	49.77	30.01	30.38	24.13	24.69	0.37	0.38	42.85	43.62
Jun	49.00	49.87	30.27	30.65	24.39	24.96	0.37	0.38	43.45	44.22
Jul	48.02	48.89	29.84	30.22	24.40	24.97	0.37	0.38	42.53	43.30
Aug	48.39	49.27	29.64	30.02	24.39	24.97	0.38	0.39	42.41	43.17
Sep	47.53	48.38	30.18	30.56	24.03	24.59	0.39	0.40	41.47	42.20
Oct	48.07	48.94	30.65	31.03	23.86	24.40	0.40	0.41	41.84	42.58
Nov	48.42	49.29	30.72	31.09	23.71	24.25	0.39	0.40	41.56	42.29
Dec	48.15	49.01	30.97	31.35	23.78	24.32	0.40	0.40	40.60	41.34

Table 8.1-2Y
Ex-Refinery Prices of Petroleum Products in Thailand

Year	Ex-Refinery Prices											Unit : Baht/Litre		
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)		LPG (B/kg)	
			(E10)	(E20)	(E85)								Cooking	Industry
1996	4.33	3.79				4.79	4.70	4.32	2.83	5.95	5.95			
1997	5.40	4.99				5.27	5.29	4.58	3.36	7.36	7.36			
1998	5.12	4.48				4.60	4.53	4.12	3.14	6.15	6.15			
1999	5.44	4.87				5.35	4.97	4.53	3.87	7.83	7.83			
2000	8.64	8.07				8.91	8.63	8.20	6.39	11.96	11.96			
2001	8.12	7.50				8.05	8.15	7.65	5.96	11.29	11.29			
2002	7.98	7.44				7.68	7.84	7.41	6.35	9.90	9.90			
2003	9.44	8.90				8.67	8.90	8.73	7.05	11.36	11.36			
2004	12.35	11.81				12.06	12.16	11.82	7.62	12.32	12.32			
2005	16.26	15.75				17.31	16.95	16.56	10.06	12.73	12.73			
2006	17.84	17.39	18.68			19.51	18.92	18.45	12.67	11.96	11.96			
2007	18.36	17.94	18.53			18.57	19.06	18.63	13.17	11.19	11.19			
2008	21.73	21.31	21.62	21.42		21.43	25.68	25.86	16.91	10.99	10.99			
2009	15.66	15.03	16.29	16.82	19.61	15.92	15.40	15.98	12.85	11.08	11.08			
2010	18.11	17.64	18.82	19.44	22.60	18.57	18.33	18.69	14.94	10.69	10.69			
2011	23.34	22.92	23.61	23.80	24.17	23.40	24.47	23.95	19.50	10.16	9.25			

Table 8.1-3Y
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

Year	Ex-Refinery Prices										LPG (B/kg)	
	ULG95	UGR91	Gasohol 95		Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	Cooking Industry
	(E10)	(E20)	(E85)									
1996	0.11	0.11			0.03	0.16				0.12	0.03	-0.64
1997	0.08	0.08			0.06	0.07				0.04	0.03	-1.89
1998	0.16	0.16			0.10	0.15				0.13	0.06	0.40
1999	0.09	0.09			0.10	0.10				0.08	0.06	-2.94
2000	0.34	0.22			0.10	0.11				0.11	0.06	-7.31
2001	0.50	0.30			0.10	0.50				0.50	0.06	-5.55
2002	0.50	0.30	0.27		0.10	0.50				0.50	0.06	-2.45
2003	0.49	0.30	0.27		0.10	0.44				0.50	0.06	-3.05
2004	-0.34	-0.59	0.24		0.10		-2.24			-2.27	0.06	-2.55
2005	1.28	1.03	0.13		0.16	0.10	-0.92			-1.02	0.06	-2.54
2006	2.70	2.50	0.84		0.84	0.10	1.47	0.41		1.47	0.06	-1.93
2007	3.67	3.37	0.85		0.62	0.10	1.39	0.60		1.39	0.06	-1.02
2008	3.78	3.31	0.77	-0.21	0.28	0.10	0.40	-0.68		0.31	0.06	0.30
2009	6.94	5.31	1.78	-0.80	1.17	0.10	0.78	-0.95		1.20	0.06	0.22
2010	7.50	6.65	2.74	-0.41	1.43	0.10	0.66	-0.65		1.20	0.06	0.61
2011	4.90	4.38	1.87	-1.80	-13.50	0.10	-0.60	-3.01		1.20	0.06	1.14
												5.07

Table 8.1-4
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)	
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500		
			(E10)	(E20)											
2007															
Jan															
WT.AVG	23.58	22.89	21.66			20.80	21.15	21.61	19.60	12.32	11.50	10.81	10.70	12.46	
Trader	23.58	22.90	21.66			20.80	21.15	20.33	19.60	12.32	11.46	10.81	10.70	12.46	
Cost															
Feb															
WT.AVG	24.61	23.93	22.57			22.18	21.08	22.06	21.92	20.48	13.09	12.32	11.64	11.48	12.46
Trader	24.61	23.92	22.57			22.18	21.08	22.05	21.19	20.48	13.09	12.27	11.64	11.48	12.46
Cost															
Mar															
WT.AVG	26.62	25.95	22.50			22.12	21.59	22.47	22.21	20.89	13.43	12.61	11.93	11.77	12.46
Trader	26.62	25.94	22.50			22.12	21.59	22.46	21.35	20.89	13.43	12.55	11.93	11.77	12.46
Cost															
Apr															
WT.AVG	28.13	27.46	24.98			24.80	22.88	23.97	23.38	22.41	14.74	13.89	13.24	13.04	12.46
Trader	28.13	27.45	24.98			24.80	22.88	23.96	22.79	22.41	14.74	13.83	13.24	13.04	12.46
Cost															
May															
WT.AVG	29.20	28.53	25.63			25.40	23.03	24.17	23.89	22.65	14.79	13.91	13.29	13.07	12.46
Trader	29.20	28.53	25.63			25.40	23.03	24.17	23.14	22.65	14.79	13.86	13.29	13.07	12.46
Cost															
Jun															
WT.AVG	28.31	27.64	24.70			24.43	23.37	24.19	23.89	22.64	15.15	14.31	13.63	13.43	12.46
Trader	28.31	27.64	24.70			24.43	23.37	24.18	23.89	22.64	15.15	14.25	13.63	13.43	12.46
Cost															
Jul															
WT.AVG	27.97	27.31	24.20			23.75	23.68	24.60	24.16	23.04	15.70	14.87	14.33	14.14	12.46
Trader	27.97	27.32	24.20			23.75	23.68	24.59	24.36	23.04	15.70	14.81	14.33	14.14	12.46
Cost															
Aug															
WT.AVG	26.72	25.99	22.92			22.10	23.26	24.22	23.99	22.67	15.57	14.76	14.26	14.05	12.46
Trader	26.72	25.99	22.92			22.10	23.26	24.22	23.98	22.67	15.57	14.71	14.26	14.05	12.46
Cost															
Sep															
WT.AVG	28.14	27.37	24.14			23.35	24.68	25.99	25.13	24.35	16.35	15.43	14.87	14.60	12.46
Trader	28.14	27.36	24.14			23.35	24.68	25.97	25.59	24.35	16.35	15.36	14.87	14.60	12.46
Cost															
Oct															
WT.AVG	29.55	28.77	25.01			24.26	26.07	26.99	26.01	25.35	18.05	17.24	16.52	16.27	12.46
Trader	29.54	28.76	25.01			24.26	26.07	26.97	26.70	25.35	18.05	17.15	16.52	16.27	12.46
Cost															
Nov															
WT.AVG	31.93	30.90	26.73			25.67	29.52	28.91	27.03	27.93	20.14	19.31	18.79	18.36	12.46
Trader	31.93	30.89	26.73			25.67	29.52	28.89	28.42	27.93	20.14	19.23	18.79	18.36	12.46
Cost															
Dec															
WT.AVG	31.47	30.46	26.32			25.22	28.50	28.41	27.32	27.66	19.40	18.47	17.85	17.59	12.46
Trader	31.47	30.46	26.32			25.22	28.50	28.41	27.94	27.66	19.40	18.39	17.85	17.59	12.46
Cost															
2007 AVG															
WT.AVG	28.02	27.27	24.28			23.93	24.04	24.76	24.21	23.30	15.73	14.89	14.26	14.04	12.46
Trader	28.02	27.26	24.28			23.93	24.04	24.75	24.14	23.30	15.73	14.82	14.26	14.04	12.46
Cost															

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg (exclue vat)
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2008														
Jan														
WT.AVG	31.61	30.54	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.07	17.46	17.48	13.59
Trader	31.62	30.55	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.01	17.46	17.48	13.59
Cost														
Feb														
WT.AVG	32.07	31.16	27.37	26.35	26.70	27.70	28.09	27.76	27.61	18.67	17.57	16.97	16.96	13.77
Trader	32.06	31.15	27.37	26.35	26.70	27.70	28.10	27.76	27.61	18.67	17.49	16.97	16.96	13.77
Cost														
Mar														
WT.AVG	32.42	31.58	27.67	26.64	27.11	30.20	28.14	29.51	30.03	19.34	18.06	16.98	17.30	13.69
Trader	32.42	31.58	27.67	26.64	27.11	30.20	28.15	29.51	30.03	19.34	17.98	16.98	17.30	13.69
Cost														
Apr														
WT.AVG	34.30	33.40	29.39	28.19	28.72	33.18	32.66	30.25	32.85	21.07	19.73	18.80	18.61	13.69
Trader	34.29	33.38	29.39	28.19	28.72	33.18	32.64	30.25	32.85	21.07	19.62	18.80	18.61	13.69
Cost														
May														
WT.AVG	37.30	36.36	32.10	30.57	31.46	37.87	37.11	32.62	37.36	23.86	22.20	21.28	20.98	13.69
Trader	37.28	36.34	32.10	30.57	31.46	37.87	37.09	32.62	37.36	23.86	22.08	21.28	20.98	13.69
Cost														
Jun														
WT.AVG	40.51	39.51	34.99	33.13	34.34	40.48	40.28	37.55	40.42	26.23	24.43	23.28	23.20	13.69
Trader	40.49	39.50	34.99	33.13	34.34	40.48	40.27	37.55	40.42	26.23	24.30	23.28	23.20	13.69
Cost														
Jul														
WT.AVG	39.72	38.83	33.46	31.78	32.76	41.53	40.09	40.33	41.07	29.13	27.65	26.73	26.53	13.69
Trader	39.74	38.85	33.46	31.78	32.76	41.53	40.10	40.33	41.07	29.13	27.52	26.73	26.53	13.69
Cost														
Aug														
WT.AVG	35.73	34.85	26.87	25.60	26.17	35.39	31.37	35.50	34.10	26.89	25.88	25.29	25.17	13.69
Trader	35.74	34.85	26.87	25.60	26.17	35.39	31.38	35.50	34.10	26.89	25.76	25.29	25.17	13.69
Cost														
Sep														
WT.AVG	34.52	33.80	26.02	24.78	25.31	31.94	29.17	29.12	31.17	23.94	23.00	22.52	22.40	13.69
Trader	34.53	33.81	26.02	24.78	25.31	31.94	29.18	29.12	31.17	23.94	22.92	22.52	22.40	13.69
Cost														
Oct														
WT.AVG	28.46	28.21	21.68	20.87	20.90	25.06	22.10	20.76	23.64	17.16	16.43	16.27	16.10	13.69
Trader	28.50	28.25	21.68	20.87	20.90	25.06	22.13	20.76	23.64	17.16	16.48	16.27	16.10	13.69
Cost														
Nov														
WT.AVG	21.50	21.19	16.24	15.17	15.35	21.39	19.19	17.29	19.97	11.55	10.58	10.02	10.09	13.69
Trader	21.52	21.22	16.24	15.17	15.35	21.39	19.20	17.29	19.97	11.55	10.55	10.02	10.09	13.69
Cost														
Dec														
WT.AVG	21.23	19.21	14.51	13.35	13.69	17.81	16.89	14.66	17.48	10.34	9.55	8.96	9.10	13.69
Trader	21.21	19.21	14.51	13.35	13.69	17.81	16.90	14.66	17.48	10.34	9.52	8.96	9.10	13.69
Cost														
2008 AVG														
WT.AVG	32.45	31.55	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.43	18.71	18.66	13.68
Trader	32.45	31.56	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.35	18.71	18.66	13.68
Cost														

Unit : Baht/Litre

ราคาน้ำมันไปโตรเลียม

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclue vat)
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2010														
Jan														
WT.AVG	36.72	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.99	17.68	17.68	13.69
Trader	36.73	34.74	30.69	27.02	29.62	22.94	26.32	25.28	23.54	18.40	17.92	17.68	17.68	13.69
Cost														
Feb														
WT.AVG	36.48	34.84	30.88	26.91	29.18	22.14	26.20	24.88	23.05	17.74	17.30	16.86	16.93	13.69
Trader	36.48	34.83	30.88	26.91	29.18	22.14	26.19	24.88	23.05	17.74	17.23	16.86	16.93	13.69
Cost														
Mar														
WT.AVG	37.10	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.22	16.87	16.80	13.69
Trader	37.11	35.63	31.60	27.41	29.66	22.96	27.05	25.68	23.96	17.75	17.15	16.87	16.80	13.69
Cost														
Apr														
WT.AVG	37.61	36.01	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.81	17.33	17.35	13.69
Trader	37.61	36.00	32.05	27.81	30.11	24.36	28.31	26.92	25.23	18.44	17.74	17.33	17.35	13.69
Cost														
May														
WT.AVG	35.76	34.35	30.39	26.36	28.43	23.09	26.99	25.62	24.06	17.43	16.82	16.54	16.51	13.69
Trader	35.78	34.36	30.39	26.36	28.43	23.09	27.00	25.62	24.06	17.43	16.78	16.54	16.51	13.69
Cost														
Jun														
WT.AVG	35.44	33.98	30.10	26.09	28.15	22.78	26.30	25.35	23.52	16.86	16.25	15.83	15.89	13.69
Trader	35.44	33.97	30.10	26.09	28.15	22.78	26.29	25.35	23.52	16.86	16.18	15.83	15.89	13.69
Cost														
Jul														
WT.AVG	35.15	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.26	15.86	15.85	13.69
Trader	35.16	33.70	29.84	25.86	27.89	22.40	26.03	25.21	23.20	16.83	16.20	15.86	15.85	13.69
Cost														
Aug														
WT.AVG	34.92	33.44	29.64	25.68	27.62	22.51	26.26	25.38	23.52	16.92	16.32	15.98	15.93	13.69
Trader	34.93	33.44	29.64	25.68	27.62	22.51	26.27	25.38	23.52	16.92	16.26	15.98	15.93	13.69
Cost														
Sep														
WT.AVG	34.39	32.90	29.16	25.23	27.15	22.04	25.84	24.82	22.81	16.19	15.62	15.23	15.25	13.69
Trader	34.39	32.90	29.16	25.23	27.15	22.04	25.83	24.82	22.81	16.19	15.56	15.23	15.25	13.69
Cost														
Oct														
WT.AVG	35.27	33.81	29.94	25.87	27.98	22.82	26.50	25.48	23.50	16.63	16.04	15.67	15.65	13.69
Trader	35.27	33.80	29.94	25.87	27.98	22.82	26.49	25.48	23.50	16.63	15.97	15.67	15.65	13.69
Cost														
Nov														
WT.AVG	35.98	34.33	30.58	26.50	28.59	23.48	27.32	26.38	24.15	17.28	16.66	16.29	16.23	13.69
Trader	35.98	34.32	30.58	26.50	28.59	23.48	27.31	26.38	24.15	17.28	16.59	16.29	16.23	13.69
Cost														
Dec														
WT.AVG	37.92	35.92	31.92	27.14	29.03	24.78	28.14	27.93	25.50	18.04	17.34	16.94	16.88	13.69
Trader	37.91	35.92	31.92	27.14	29.03	24.78	28.12	27.93	25.50	18.04	17.27	16.94	16.88	13.69
Cost														
2010 AVG														
WT.AVG	36.06	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.80	16.42	16.41	13.69
Trader	36.07	34.47	30.57	26.49	28.62	23.03	26.77	25.75	23.84	17.37	16.74	16.42	16.41	13.69
Cost														

Table 8.1-4 (Cont.)

Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline					2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/kg) (exclude vat)
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	2500	
			(E10)	(E20)										
2011														
Jan														
WT.AVG	39.09	37.59	32.95	28.00	30.01	26.28	28.27	28.79	26.85	19.15	18.38	17.84	17.88	13.69
Trader Cost	39.05	37.55	32.95	28.00	30.01	26.28	28.23	28.79	26.85	19.15	18.24	17.84	17.88	13.69
Feb														
WT.AVG	40.33	38.86	34.07	29.00	31.12	28.57	28.30	29.58	28.92	21.55	20.79	20.31	20.25	13.69
Trader Cost	40.32	38.84	34.07	29.00	31.12	28.57	28.29	29.58	28.92	21.55	20.69	20.31	20.25	13.69
Mar														
WT.AVG	41.97	40.47	35.54	30.30	32.60	30.74	28.56	30.31	31.33	22.98	21.95	21.47	21.35	13.69
Trader Cost	41.97	40.47	35.54	30.30	32.60	30.74	28.55	30.31	31.33	22.98	21.86	21.47	21.35	13.69
Apr														
WT.AVG	43.50	41.98	36.92	31.51	33.99	31.80	28.61	29.47	32.56	23.92	22.98	22.48	22.38	13.69
Trader Cost	43.49	41.97	36.92	31.51	33.99	31.80	28.61	29.47	32.56	23.92	22.88	22.48	22.38	13.69
May														
WT.AVG	42.69	41.34	36.19	30.95	33.20	30.03	28.34		30.88	22.94	22.07	21.80	21.62	13.69
Trader Cost	42.70	41.34	36.19	30.95	33.20	30.03	28.34		30.88	22.94	21.98	21.80	21.62	13.69
Jun														
WT.AVG	41.93	40.47	35.51	30.29	32.56	29.88	28.42		30.64	23.31	22.49	22.07	21.98	13.69
Trader Cost	41.93	40.47	35.51	30.29	32.56	29.88	28.42		30.64	23.31	22.40	22.07	21.98	13.69
Jul														
WT.AVG	42.77	41.27	36.26	30.93	33.33	29.97	28.68		30.72	23.57	22.70	22.16	22.17	13.69
Trader Cost	42.77	41.26	36.26	30.93	33.33	29.97	28.68		30.72	23.57	22.60	22.16	22.17	13.69
Aug														
WT.AVG	40.56	39.20	35.40	30.16	32.44	28.87	27.89		29.46	22.78	21.96	21.48	21.47	13.69
Trader Cost	40.57	39.19	35.40	30.16	32.44	28.87	27.89		29.46	22.78	21.87	21.48	21.47	13.69
Sep														
WT.AVG	34.66	33.85	35.12	29.29	31.63	29.11	26.12		29.89	23.24	22.41	21.93	21.90	13.69
Trader Cost	34.67	33.85	35.12	29.29	31.63	29.11	26.12		29.89	23.24	22.32	21.93	21.90	13.69
Oct														
WT.AVG	34.49	33.88	34.97	29.15	31.48	29.41	26.77		29.94	23.49	22.78	22.33	22.26	13.69
Trader Cost	34.50	33.88	34.97	29.15	31.48	29.41	26.75		29.94	23.49	22.68	22.33	22.26	13.69
Nov														
WT.AVG	32.76	31.98	32.26	27.78	30.03	30.44	27.44		31.32	24.59	23.86	23.39	23.24	13.69
Trader Cost	32.77	31.98	32.26	27.78	30.03	30.44	27.44		31.32	24.59	23.76	23.39	23.24	13.69
Dec														
WT.AVG	33.12	32.24	32.46	27.81	30.26	29.59	26.71		30.67	24.07	23.38	23.00	22.81	13.69
Trader Cost	33.12	32.23	32.46	27.81	30.26	29.59	26.71		30.67	24.07	23.28	23.00	22.81	13.69
2011 AVG														
WT.AVG	38.99	37.76	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.15	21.69	21.61	13.69
Trader Cost	38.99	37.75	34.80	29.60	31.89	29.56	27.84	29.54	30.26	22.97	22.05	21.69	21.61	13.69

After Jan'1992 Wholesale Prices Including VAT.

Table 8.1-5Y
Retail Prices of Petroleum Products in Bangkok

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil			5. LPG		
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile	
			(E10)	(E20)									(Baht/kg)	(Baht/L)
1997 (Min)	10.43	10.04			10.90	9.43		9.21	5.67	5.43	11.36		10.46	5.65
(WT.AVG)	10.48	10.09			11.17	9.49		9.48	5.85	5.45	11.36		10.53	5.68
(Max)	10.50	10.12			11.40	9.51		10.00	6.06	5.97	11.36		10.58	5.71
1998 (Min)	11.84	11.18			11.16	9.18		8.80	6.59	6.21	12.70		11.94	6.45
(WT.AVG)	11.86	11.20			11.70	9.19		9.54	6.79	6.42	12.70		11.94	6.45
(Max)	11.87	11.20			12.10	9.19		10.93	7.20	7.01	12.70		11.94	6.45
1999 (Min)	11.96	11.14			11.25	8.95		8.58	6.41	6.09	11.03		10.75	5.81
(WT.AVG)	11.98	11.16			11.63	8.96		8.95	6.87	6.29	11.03		10.75	5.81
(Max)	11.98	11.17			11.93	8.97		9.51	7.86	7.69	11.03		10.75	5.81
2000 (Min)	15.62	14.66			14.83	12.92		12.58	9.30	8.94	10.70		10.57	5.71
(WT.AVG)	15.63	14.68			15.10	12.95		12.77	9.68	9.22	10.70		10.57	5.71
(Max)	15.64	14.68			15.43	12.97		12.94	10.47	10.25	10.70		10.57	5.71
2001 (Min)	15.50	14.50			15.33	13.42		13.05	9.39	8.90	11.90		12.00	6.48
(WT.AVG)	15.51	14.51			15.97	13.43		13.18	9.76	9.25	11.90		12.00	6.48
(Max)	15.51	14.51			16.53	13.43		13.30	10.41	9.98	11.90		12.00	6.48
2002 (Min)	15.29	14.29			14.54	13.12		12.72	9.31	8.96	13.77		13.98	7.55
(WT.AVG)	15.29	14.29			15.56	13.12		12.83	9.91	9.24	13.77		13.98	7.55
(Max)	15.29	14.29			16.12	13.12		12.98	10.65	10.19	13.77		13.98	7.55
2003 (Min)	16.60	15.65			15.60	14.03		13.58	10.38	10.02	14.87		14.88	8.05
(WT.AVG)	16.60	15.65			16.71	14.03		13.73	11.00	10.36	14.87		14.88	8.05
(Max)	16.60	15.65			17.41	14.03		13.85	12.40	11.80	14.87		14.88	8.05
2004 (Min)	19.05	18.26			17.73	14.59		14.28	10.66	10.25	16.46		16.46	8.90
(WT.AVG)	19.05	18.26			19.50	14.59		14.37	11.75	10.98	16.46		16.46	8.90
(Max)	19.05	18.26			20.22	14.59		14.45	13.02	12.53	16.46		16.46	8.90
2005 (Min)	23.89	23.09			22.06	20.01		17.14	13.75	13.10	16.81		16.81	9.09
(WT.AVG)	23.90	23.10			24.51	20.03		18.18	15.83	15.09	16.81		16.81	9.09
(Max)	23.91	23.11			25.71	20.05		19.91	17.30	16.86	16.81		16.81	9.09
2006 (Min)	27.54	26.75			26.87	25.56	25.06	25.37	17.22	16.35	16.81		16.81	9.09
(WT.AVG)	27.58	26.79			28.42	25.59	25.09	25.37	18.11	17.29	16.81		16.81	9.09
(Max)	27.66	26.86			29.25	25.61	25.18	25.37	19.27	18.79	16.81		16.81	9.09
2007 (Min)	29.18	28.32	26.17		25.76	25.66	24.95	25.45	18.48	17.66	16.91		16.91	9.14
(WT.AVG)	29.18	28.32	26.17		25.76	25.66	24.95	25.45	18.45	17.66	16.91		16.91	9.14
(Max)	29.23	28.35	26.25		25.76	25.67	24.95	25.45	20.67	20.19	16.91		16.91	9.14
2008 (Min)	34.86	33.40	28.95	27.36	31.15	30.34	30.34	33.20	22.53	21.06	18.13		18.13	9.79
(WT.AVG)	35.33	33.43	28.97	27.37	32.16	31.26	30.39	33.20	24.30	22.90	18.13		18.13	9.79
(Max)	35.89	33.45	29.02	27.37	33.45	31.34	30.50	33.20	27.12	26.11	18.13		18.13	9.79
2009 (Min)	37.23	31.32	27.49	25.39	26.65	26.20	22.71	27.04	18.10	16.39	18.13		18.13	9.79
(WT.AVG)	37.47	31.34	27.50	25.39	26.69	24.77	22.71	27.04	18.13	16.39	18.13		18.13	9.79
(Max)	38.29	31.36	27.53	25.39	26.74	24.79	22.73	27.04	21.28	19.83	18.13		18.13	9.79
2010 (Min)	41.12	36.08	32.30	29.96	30.84	28.68	27.50	27.04	21.06	19.35	18.13		18.13	9.79
(WT.AVG)	41.26	36.10	32.35	29.96	30.85	28.69	27.55	27.04	23.59	22.04	18.13		18.13	9.79
(Max)	41.90	36.13	32.40	29.96	30.90	28.72	27.58	27.04	27.28	25.90	18.13		18.13	9.79
2011 (Min)	44.51	39.68	36.48	32.94	33.94	32.11	29.40	27.04	26.69	25.19	18.13	20.38	18.13	9.79
(WT.AVG)	44.64	39.72	36.52	32.94	33.96	32.11	29.45	27.04	28.58	26.68	18.13	20.38	18.13	9.79
(Max)	45.31	39.80	36.65	32.94	34.12	32.11	30.17	27.04	30.98	29.76	18.13	20.38	18.13	9.79

Unit : Baht/Litre

Table 8.1-6
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2007		41,411	76,962
Jan	-37,492	3,919	7,363
Feb	-33,698	3,794	6,096
Mar	-30,012	3,686	6,349
Apr	-26,580	3,432	6,691
May	-22,444	4,136	6,726
Jun	-19,197	3,247	6,198
Jul	-16,451	2,746	6,194
Aug	-15,426	1,025	6,809
Sep	-11,822	3,604	6,157
Oct	-5,572	6,250	6,558
Nov	-2,933	2,639	6,075
Dec	0	2,933	5,746
2008		11,069	54,083
Jan	2,560	2,560	7,009
Feb	3,659	1,099	5,933
Mar	3,780	121	6,843
Apr	3,305	-475	7,139
May	3,839	534	6,404
Jun	3,672	-167	6,152
Jul	134	-3,538	5,472
Aug	197	63	1,955
Sep	1,562	1,365	1,928
Oct	4,496	2,934	1,851
Nov	7,563	3,067	1,628
Dec	11,069	3,506	1,769
2009		10,225	123,445
Jan	14,960	3,891	1,483
Feb	16,618	1,658	7,169
Mar	19,567	2,949	9,325
Apr	15,694	-3,873	8,645
May	17,566	1,872	10,037
Jun	15,173	-2,393	13,331
Jul	16,593	1,420	12,557
Aug	19,054	2,461	12,225
Sep	19,683	629	11,039
Oct	20,561	878	12,351
Nov	20,758	197	12,279
Dec	21,294	536	13,004

Table 8.1-6 (Cont.)
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2010		6,147	153,561
Jan	20,794	-500	12,514
Feb	20,705	-89	12,443
Mar	21,764	1,059	14,603
Apr	22,705	941	13,852
May	22,670	-35	11,939
Jun	23,820	1,150	12,564
Jul	25,441	1,621	12,605
Aug	26,901	1,460	12,664
Sep	27,525	624	12,007
Oct	28,171	646	12,023
Nov	28,768	597	12,431
Dec	27,441	-1,327	13,916
2011		-41,441	92,766
Jan	25,183	-2,258	12,514
Feb	21,684	-3,499	14,068
Mar	14,258	-7,426	13,536
Apr	1,003	-13,255	13,246
May	550	-453	4,915
Jun	-1,253	-1,803	5,122
Jul	-524	729	4,861
Aug	1,317	1,841	5,322
Sep	-317	-1,634	4,751
Oct	-3,296	-2,979	4,804
Nov	-11,380	-8,084	4,701
Dec	-14,000	-2,620	4,926

ReMarks : Including debt since October 2000





ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 9

AIR POLLUTION EMISSION IN THE ENERGY SECTOR

บทที่ 9

การปล่อยมลพิษทางอากาศในภาคพลังงาน

POWER GENERATION

TRANSPORTATION

INDUSTRY

OTHER ECONOMIC SECTORS





บทที่ 9

การปล่อยมลพิษทางอากาศ ในภาคพลังงาน

วิธีการคำนวณ การคำนวณปริมาณการปลดปล่อยมลพิษทางอากาศ เป็นการประมาณปริมาณก๊าซคาร์บอนไดออกไซด์ (CO₂) ที่เกิดจากการใช้พลังงานของประเทศ ซึ่งคำนวณจากปริมาณการใช้พลังงาน (Energy Consumption) และค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ (Emission Factor) ตามชนิดเชื้อเพลิง โดยอ้างอิงระเบียบวิธีประมาณการและค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ ตามหลักเกณฑ์ของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006 โดยมีสูตรคำนวณดังนี้

$$\text{CO}_2 \text{ Emission} = \sum (\text{EF}_{\text{Fuel}} \times \text{FC}_{\text{Fuel}})$$

CO ₂ Emission	หมายถึง ปริมาณการปล่อยก๊าซ CO ₂ จากการใช้พลังงาน
EF _{Fuel} (Emission Factor) ¹	หมายถึง ค่าสัมประสิทธิ์การปล่อยก๊าซ CO ₂ ตามชนิดเชื้อเพลิง
FC _{Fuel} (Fuel Consumption) ²	หมายถึง ปริมาณการใช้เชื้อเพลิงแต่ละชนิด

ขอบเขตการคำนวณปริมาณก๊าซ CO₂ ข้างต้น คำนวณจากการใช้พลังงานของ 4 ภาคเศรษฐกิจ ได้แก่ ภาคการผลิตไฟฟ้า (Power Generation) ภาคการขนส่ง (Transportation) ภาคอุตสาหกรรม (Industry) และภาคเศรษฐกิจอื่น ๆ (Other Sectors) ซึ่งหมายถึงภาคครัวเรือน เกษตรกรรม และพาณิชย์กรรม ด้านชนิดเชื้อเพลิงได้แบ่งเชื้อเพลิงในการคำนวณออกเป็น 3 ชนิด ได้แก่ น้ำมันสำเร็จรูป (คำนวณจากการใช้น้ำมันเบนซิน ดีเซล น้ำมันเตา ก๊าซปิโตรเลียมเหลว (LPG) น้ำมันเครื่องบิน และน้ำมันก๊าด) ก๊าซธรรมชาติ และถ่านหินลิกไนต์ โดยในการคำนวณจะไม่รวมเชื้อเพลิงบางชนิด ได้แก่ น้ำมันเตาสำหรับเรือเดินสมุทรระหว่างประเทศ (Bunker Oil) น้ำมันเครื่องบินสำหรับเที่ยวบินระหว่างประเทศ และเชื้อเพลิงหมุนเวียน เช่น ชีวมวล ก๊าซชีวภาพ เอทานอล ไบโอดีเซล พลังน้ำ ฯลฯ เพื่อให้สอดคล้องกับข้อยกเว้นในการคำนวณและป้องกันการนับซ้ำของ IPCC

การปล่อยก๊าซ CO₂ รายภาคเศรษฐกิจ

- **ภาคการผลิตไฟฟ้า** ในปี 2554 มีการปล่อยก๊าซ CO₂ รวมทั้งสิ้น 87.16 ล้านตัน โดยกว่า 25 ปีที่ผ่านมา มีการปล่อยก๊าซ CO₂ จากการใช้้ำมันสำเร็จรูป (น้ำมันดีเซลและน้ำมันเตา) ลดลงจาก 1.84 ล้านตันในปี 2530 เหลือ 0.79 ล้านตันในปี 2554 ในขณะที่การใช้ถ่านหินลิกไนต์และก๊าซธรรมชาติยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ สูงขึ้นตามปริมาณการใช้พลังงานที่เพิ่มขึ้น โดยถ่านหินลิกไนต์ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 6.60 ล้านตันในปี 2530 เป็น 33.75 ล้านตันในปี 2554 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 8.06 ล้านตันในปี 2530 เป็น 52.62 ล้านตันในปี 2554 โดยก๊าซธรรมชาตินับเป็นเชื้อเพลิงที่มีการปล่อยก๊าซ CO₂ ในภาคการผลิตไฟฟ้ามากที่สุด

¹ อ้างอิงจากคู่มือการคำนวณการปล่อยมลพิษทางอากาศของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006

² อ้างอิงจากฐานข้อมูลสถิติพลังงานของสำนักงานนโยบายและแผนพลังงาน

Air Pollution Emission in The Energy Sector



Calculation Methods. The calculation of the amount of air pollution emissions herein is the estimation of CO₂ emission stemming from energy use in Thailand, calculated from the amount of energy consumption and the CO₂ emission factor by fuel type, with reference to the estimation methodologies and CO₂ emission factors prescribed in the 2006 Guidelines of the Intergovernmental Panel on Climate Change (IPCC), using the following calculation formula:

$$\text{CO}_2 \text{ Emission} = \sum (\text{EF}_{\text{Fuel}} \times \text{FC}_{\text{Fuel}})$$

Where:

CO ₂ Emission	means	the amount of CO ₂ emission from energy consumption
EF _{Fuel} (Emission Factor) ¹	means	the CO ₂ emission coefficient of each fuel type
FC _{FUEL} (Fuel Consumption) ²	means	the amount of utilization of each fuel type

The scope of the above-mentioned CO₂ emission calculation covers energy consumption in four major economic sectors, namely: power generation, transportation, industry and other economic sectors (covering the residential, agricultural and commercial sectors). As for the fuel types used in the calculation, they are divided into three types, namely: petroleum products (calculated from consumption of gasoline, diesel, fuel oil, LPG, jet petroleum and kerosene), natural gas and coal/lignite. Certain types of fuel are not included in the calculation, i.e. bunker oil for international ocean liners, jet petroleum for international flights, and renewable fuels, such as biomass, biogas, ethanol, biodiesel and hydropower, to be in line with the exceptions to the calculation and to avoid the possibilities of double counting prescribed by the IPCC.

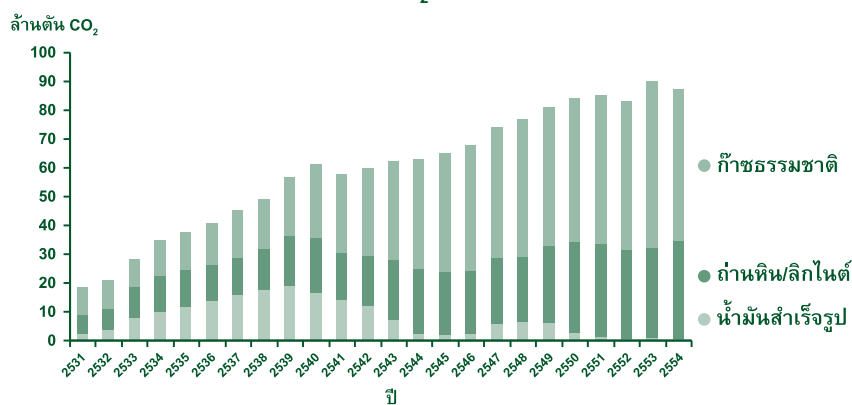
CO₂ Emission by Economic Sector

• **Power Generation Sector.** In 2011, CO₂ emissions in this sector totaled 87.16 million tons. Over the past 25 years, CO₂ emissions from the use of petroleum products (diesel and fuel oil) had decreased from 1.84 million tons in 1987 to 0.79 million tons in 2011. However, CO₂ emissions from the use of coal/lignite and natural gas had been rising in accordance with increased volume of energy use. CO₂ emission from coal/lignite consumption increased from 6.60 million tons in 1987 to 33.75 million tons in 2011. Similarly, CO₂ emission from natural gas consumption increased from 8.06 million tons in 1987 to 52.62 million tons in 2011, which accounted for the largest CO₂ emission source in the power generation sector.

¹ Based on the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories

² Based on the energy statistics database of the Energy Policy and Planning Office

การปล่อยก๊าซ CO₂ ภาคการผลิตไฟฟ้า



ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
น้ำมันสำเร็จรูป	2.52	3.78	8.10	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.00	12.02
ถ่านหิน/ลิกไนต์	6.23	7.15	10.44	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53	17.40
ก๊าซธรรมชาติ	9.63	9.84	9.62	12.32	13.04	14.73	16.65	17.03	20.2	25.54	27.45	30.24

ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
น้ำมันสำเร็จรูป	7.56	2.37	2.14	2.30	5.58	6.48	6.33	2.95	1.21	0.54	0.83	0.79
ถ่านหิน/ลิกไนต์	20.32	22.57	21.98	21.92	23.04	22.77	26.72	31.28	32.31	30.93	31.14	33.75
ก๊าซธรรมชาติ	34.53	37.8	41.15	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99	52.62

● **ภาคอุตสาหกรรม** มีการปล่อยก๊าซ CO₂ จากการใช้ถ่านหิน/ลิกไนต์และก๊าซธรรมชาติเพิ่มขึ้น ในขณะที่มีแนวโน้มการปล่อยก๊าซ CO₂ จากน้ำมันสำเร็จรูป (น้ำมันดีเซล น้ำมันเตา น้ำมันก๊าด และ LPG) ลดลง เช่นเดียวกับภาคการผลิตไฟฟ้า ในปี 2554 ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงที่มีสัดส่วนการปล่อยก๊าซ CO₂ มากที่สุดในภาคอุตสาหกรรม โดยเพิ่มขึ้นจาก 2.94 ล้านตันในปี 2530 เป็น 29.45 ล้านตันในปี 2554 เช่นเดียวกับ ก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ ในช่วงดังกล่าวเพิ่มขึ้น ในขณะที่น้ำมันสำเร็จรูปมีแนวโน้มการปล่อยก๊าซ CO₂ ลดลงเหลือเพียง 8.15 ล้านตันในปี 2554

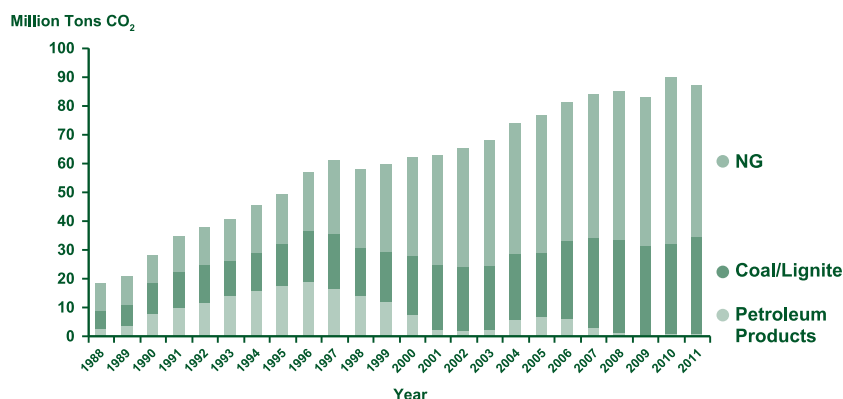
การปล่อยก๊าซ CO₂ ภาคอุตสาหกรรม



ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
น้ำมันสำเร็จรูป	5.68	6.78	7.93	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.69	11.87
ถ่านหิน/ลิกไนต์	3.59	4.82	6.16	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11	14.97
ก๊าซธรรมชาติ	0.15	0.20	0.37	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95	2.61

ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
น้ำมันสำเร็จรูป	12.63	12.34	12.86	12.87	13.24	11.41	10.06	9.54	8.88	7.96	7.46	8.15
ถ่านหิน/ลิกไนต์	12.78	14.24	17.27	17.98	21.73	25.57	24.59	26.35	29.84	31.47	32.71	29.45
ก๊าซธรรมชาติ	3.86	3.76	4.22	4.62	5.35	5.62	6.41	7.88	9.34	11.26	13.99	17.00

CO₂ Emission in the Power Generation Sector



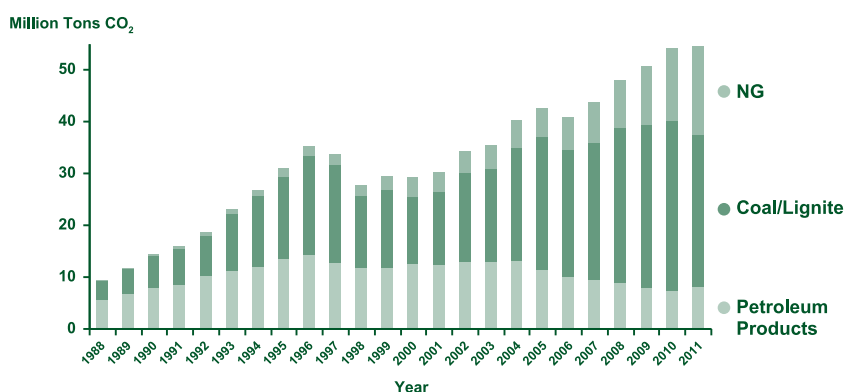
Unit : Million Tons-CO₂

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Petroleum Products	2.52	3.78	8.10	9.90	11.63	14.09	16.06	17.62	19.19	16.43	14.00	12.02
Coal/Lignite	6.23	7.15	10.44	12.53	13.13	12.14	12.85	14.37	17.51	19.27	16.53	17.40
NG	9.63	9.84	9.62	12.32	13.04	14.73	16.65	17.03	20.2	25.54	27.45	30.24

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Products	7.56	2.37	2.14	2.30	5.58	6.48	6.33	2.95	1.21	0.54	0.83	0.79
Coal/Lignite	20.32	22.57	21.98	21.92	23.04	22.77	26.72	31.28	32.31	30.93	31.14	33.75
NG	34.53	37.8	41.15	43.66	45.49	47.64	47.98	49.85	51.64	51.76	57.99	52.62

● **Industrial Sector.** Similar to the power generation sector, CO₂ emissions from coal/lignite and natural gas consumption in this sector had increased while a decrease in emissions had been observed in the use of petroleum products (diesel, fuel oil, kerosene and LPG). In 2011, coal/lignite accounted for the largest CO₂ emission source in the industrial sector, with the emission increasing from 2.94 million tons in 1987 to 29.45 million tons in 2011. CO₂ emission from natural gas consumption also increased over the same period, whereas the CO₂ emission from petroleum product consumption decreased to only 8.15 million tons in 2011.

CO₂ Emission in the Industrial Sector



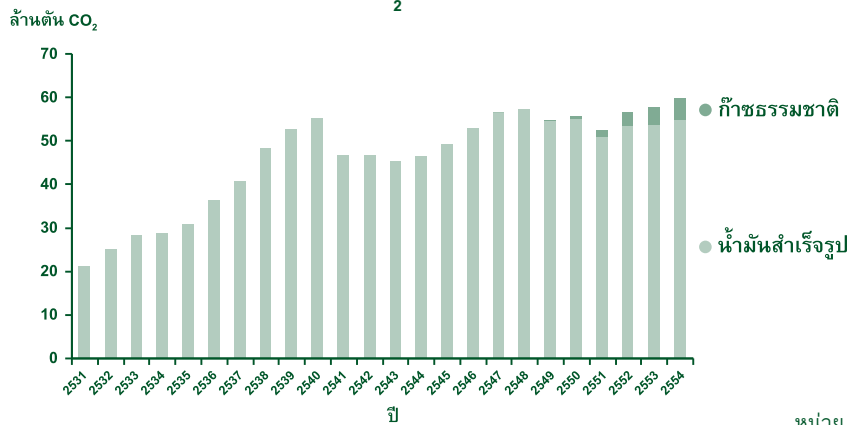
Unit : Million Tons-CO₂

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Petroleum Products	5.68	6.78	7.93	8.65	10.40	11.26	11.97	13.51	14.28	12.91	11.69	11.87
Coal/Lignite	3.59	4.82	6.16	6.90	7.66	10.97	13.82	15.97	19.27	18.76	14.11	14.97
NG	0.15	0.20	0.37	0.52	0.71	0.87	1.14	1.55	1.66	2.05	1.95	2.61

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Products	12.63	12.34	12.86	12.87	13.24	11.41	10.06	9.54	8.88	7.96	7.46	8.15
Coal/Lignite	12.78	14.24	17.27	17.98	21.73	25.57	24.59	26.35	29.84	31.47	32.71	29.45
NG	3.86	3.76	4.22	4.62	5.35	5.62	6.41	7.88	9.34	11.26	13.99	17.00

● **ภาคการขนส่ง** เชื้อเพลิงสำคัญที่ก่อให้เกิดการปล่อยก๊าซ CO₂ ในภาคเศรษฐกิจนี้ คือ น้ำมันสำเร็จรูป (น้ำมันเบนซิน ดีเซล น้ำมันเตา น้ำมันเครื่องบิน และ LPG) โดยมีการปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 18.09 ล้านตัน ในปี 2530 เป็น 55.24 ล้านตันในปี 2540 ก่อนจะลดลงในปี 2541 ซึ่งเป็นช่วงที่ประเทศเกิดภาวะวิกฤตเศรษฐกิจ อันส่งผลให้มีการใช้พลังงานลดลง จากนั้นการปล่อยก๊าซ CO₂ เริ่มมีแนวโน้มเพิ่มขึ้น ก่อนจะลดลงอีกครั้ง ในปี 2551 จากภาวะวิกฤตเศรษฐกิจของสหรัฐอเมริกาซึ่งส่งผลกระทบต่อประเทศไทย อย่างไรก็ตาม ปัจจุบัน การปล่อยก๊าซ CO₂ เริ่มกลับมามีแนวโน้มเพิ่มขึ้น โดยในปี 2554 มีการปล่อยที่ระดับ 54.90 ล้านตัน ในส่วนของก๊าซธรรมชาติเริ่มมีการใช้เป็นเชื้อเพลิงภาคขนส่งในปี 2544 โดยมีแนวโน้มการปล่อยก๊าซ CO₂ เพิ่มขึ้นอย่างต่อเนื่อง จาก 0.01 ล้านตันในปี 2544 เป็น 4.90 ล้านตันในปี 2554

การปล่อยก๊าซ CO₂ ภาคการขนส่ง

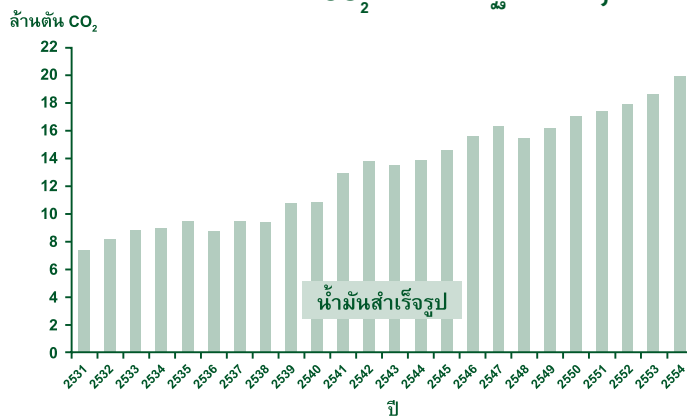


ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
น้ำมันสำเร็จรูป	21.05	25.20	28.35	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.74	46.89
ก๊าซธรรมชาติ	-	-	-	-	-	-	-	-	-	-	-	-

ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
น้ำมันสำเร็จรูป	45.56	46.53	49.24	53.00	56.48	57.38	54.60	55.07	50.89	53.35	53.74	54.90
ก๊าซธรรมชาติ	-	0.01	0.01	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85	4.90

● **ภาคเศรษฐกิจอื่น ๆ** ยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ จากการใช้้ำมันสำเร็จรูปเพิ่มสูงขึ้น จาก 6.77 ล้านตันในปี 2530 เป็น 19.89 ล้านตันในปี 2554

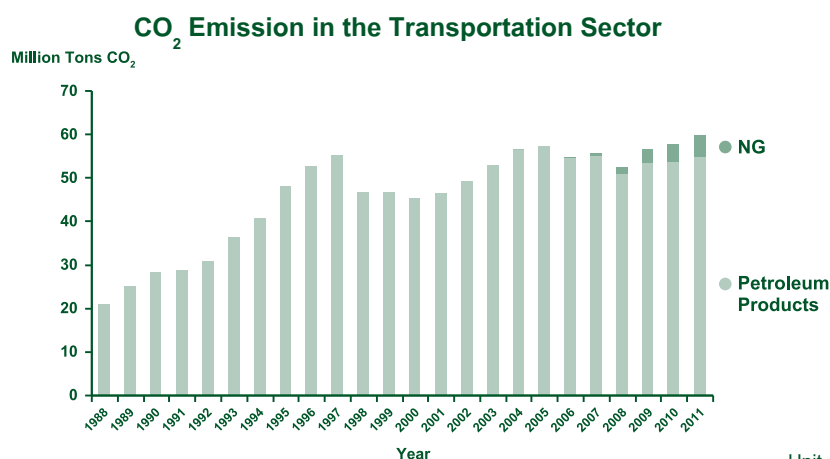
การปล่อยก๊าซ CO₂ ภาคเศรษฐกิจอื่น ๆ



ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
น้ำมันสำเร็จรูป	7.36	8.14	8.84	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.88	13.77

ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
น้ำมันสำเร็จรูป	13.49	13.84	14.61	15.59	16.37	15.47	16.22	17.02	17.44	17.91	18.66	19.89

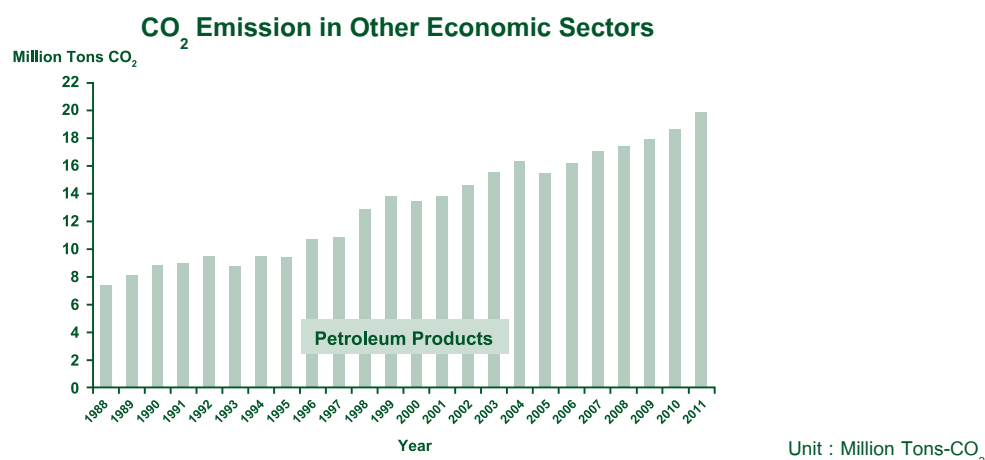
● **Transportation Sector.** The major fuel that constituted the largest CO₂ emission source in this economic sector was petroleum products (gasoline, diesel, fuel oil, jet petroleum and LPG), with increased emissions from 18.09 million tons in 1987 to 55.24 million tons in 1997 before declining in 1998 when the economic crisis hit the country and hence decreasing energy consumption. After that the trend of CO₂ emission was continuously on the rise again. However, in 2008, CO₂ emission dropped at a coincident time of the US economic crisis, and after that it was back to a rise again till 2011 at 54.90 million tons of CO₂. Similar trend can be observed in the case of natural gas, which was used as transport fuel, starting in 2001, and continuously increased CO₂ emission from 0.01 million tons in 2001 to 4.90 million tons in 2011.



Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Petroleum Products	21.05	25.20	28.35	28.98	30.91	36.53	40.94	48.21	52.71	55.24	46.74	46.89
NG	-	-	-	-	-	-	-	-	-	-	-	-

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Products	45.56	46.53	49.24	53.00	56.48	57.38	54.60	55.07	50.89	53.35	53.74	54.90
NG	-	0.01	0.01	0.01	0.06	0.14	0.23	0.50	1.65	3.03	3.85	4.90

● **Other Economic Sectors.** The trend still showed increasing CO₂ emissions stemming from petroleum product consumption, rising from 6.77 million tons in 1987 to 19.89 million tons in 2011.



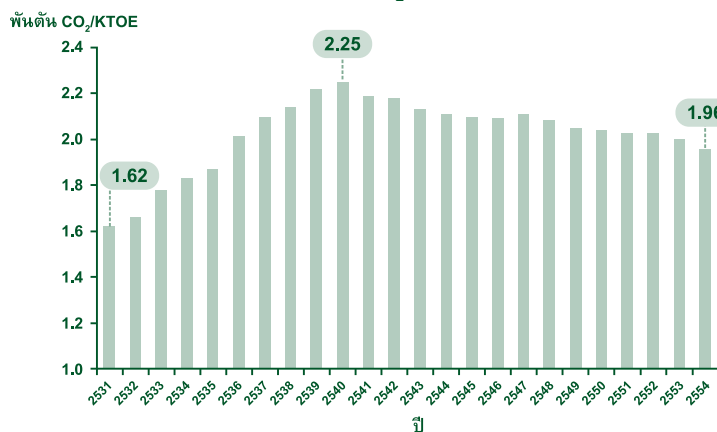
Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Petroleum Products	7.36	8.14	8.84	8.97	9.48	8.79	9.45	9.44	10.74	10.86	12.88	13.77

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Petroleum Products	13.49	13.84	14.61	15.59	16.37	15.47	16.22	17.02	17.44	17.91	18.66	19.89

ดัชนีชี้วัดการปล่อยก๊าซ CO₂

• การปล่อยก๊าซ CO₂ ต่อการใช้พลังงานขั้นต้น มีแนวโน้มเพิ่มสูงขึ้นในช่วงปี 2530-2540 จาก 1.58 พันตัน เป็น 2.25 พันตัน ต่อการใช้พลังงานขั้นต้น 1 KTOE หรือเพิ่มขึ้นเฉลี่ยร้อยละ 3.6 ต่อปี จากนั้นจึงลดลงอย่างชัดเจนตั้งแต่ปี 2541 ต่อเนื่องจนถึงปี 2554 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 1.96 พันตันต่อการใช้พลังงานขั้นต้น 1 KTOE เฉลี่ยลดลงร้อยละ 0.8 ต่อปี

การปล่อยก๊าซ CO₂ ต่อการใช้พลังงาน



หน่วย : พันตัน CO₂/KTOE

ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
CO ₂	1.62	1.66	1.78	1.83	1.87	2.01	2.10	2.14	2.22	2.25	2.19	2.18
ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
CO ₂	2.13	2.11	2.10	2.09	2.11	2.08	2.05	2.04	2.03	2.03	2.00	1.96

• การปล่อยก๊าซ CO₂ ต่อหัว (CO₂ Emission per Capita) มีอัตราการเติบโตค่อนข้างสูงในช่วงปี 2530-2540 โดยเฉลี่ยเพิ่มขึ้นร้อยละ 11.0 ต่อปี ก่อนจะลดต่ำลงเล็กน้อยในปี 2541 ตามการใช้พลังงานที่ลดลงจากภาวะเศรษฐกิจ และมีแนวโน้มเพิ่มขึ้นในปีต่อมาต่อเนื่องจนถึงปี 2554 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 3.28 ตันต่อหัว เฉลี่ยเพิ่มขึ้นร้อยละ 2.5 ต่อปี

การปล่อยก๊าซ CO₂ ต่อหัว



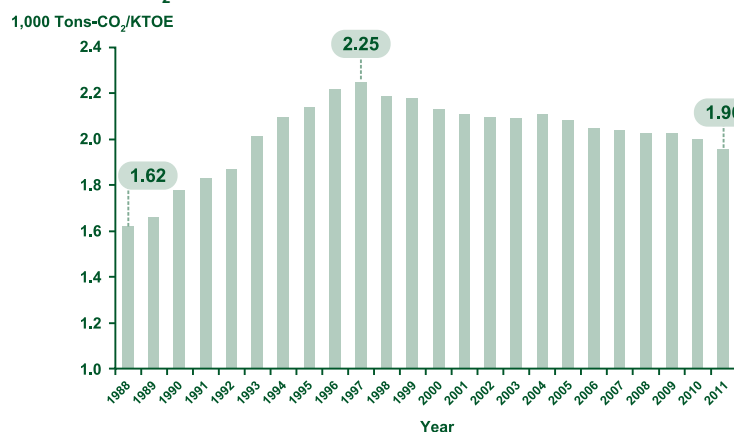
หน่วย : ตัน CO₂/หัว

ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
CO ₂	1.03	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.37	2.42
ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
CO ₂	2.42	2.44	2.58	2.69	2.90	2.96	2.95	3.04	3.06	3.11	3.27	3.28

CO₂ Emission Indicators

• **CO₂ Emission per Primary Energy Consumption.** This indicator reflects an increasing trend of emission during the period 1987-1997, i.e. from 1.58 thousand tons to 2.25 thousand tons per 1 KTOE of primary energy consumption, or at an average annual growth rate of 3.6%. Since 1998, the emission had continuously and distinctly declined; in 2011 the level of CO₂ emission was at 1.96 thousand tons per 1 KTOE of primary energy consumption, or a decrease at an average annual rate of 0.8%.

CO₂ Emission per Primary Energy Consumption



Unit : 1,000 CO₂/KTOE

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CO ₂	1.62	1.66	1.78	1.83	1.87	2.01	2.10	2.14	2.22	2.25	2.19	2.18

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CO ₂	2.13	2.11	2.10	2.09	2.11	2.08	2.05	2.04	2.03	2.03	2.00	1.96

• **CO₂ Emission per Capita.** This indicator illustrates a rather high growth rate during 1987-1997, with an average annual growth rate of 11.0%, before decreasing slightly in 1998 due to the shrinkage in energy consumption caused by the economic crisis. In 1999, the rising trend resumed and continued in following years; in 2011, the CO₂ emission per capita stood at 3.28 tons, accounting for an average annual growth rate of 2.5%.

CO₂ Emission per Capita

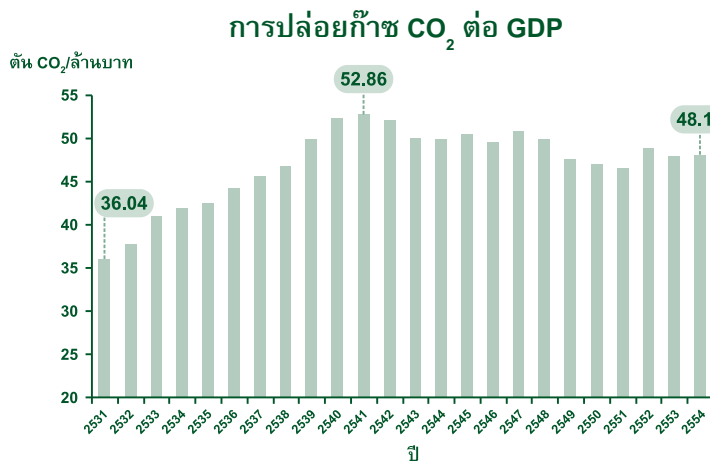


Unit : Ton-CO₂/Capita

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CO ₂	1.03	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66	2.37	2.42

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CO ₂	2.42	2.44	2.58	2.69	2.90	2.96	2.95	3.04	3.06	3.11	3.27	3.28

• การปล่อยก๊าซ CO₂ ต่อ GDP มีแนวโน้มเพิ่มขึ้นจาก 36.20 ตัน ในปี 2530 มาอยู่ที่ 52.42 ตัน ต่อ GDP 1 ล้านบาท ในปี 2540 เติบโตเพิ่มขึ้นร้อยละ 3.8 ต่อปี โดยในปี 2541 มีการปล่อยก๊าซ CO₂ เพิ่มขึ้นเป็น 52.86 ตัน ต่อ GDP 1 ล้านบาท ซึ่งเป็นอัตราสูงสุดของประเทศในรอบกว่า 25 ปีที่ผ่านมา จากนั้นจึงมีแนวโน้มลดลงจนถึงปัจจุบันซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 48.15 ตัน ต่อ GDP 1 ล้านบาท เติบโตลดลงร้อยละ 0.7 ต่อปี

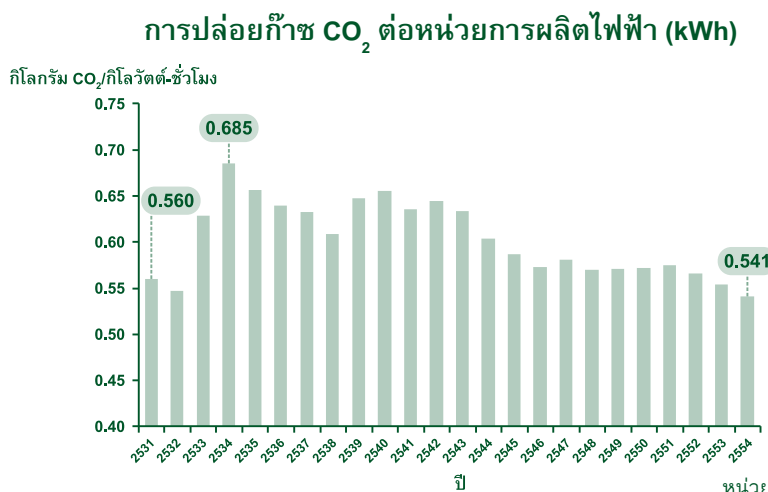


หน่วย : ตัน CO₂/ล้านบาท

ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
CO ₂	36.04	37.67	41.02	42.03	42.48	44.27	45.63	46.81	49.93	52.42	52.86	52.15

ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
CO ₂	50.10	49.93	50.50	49.58	50.79	49.89	47.63	47.06	46.55	48.84	47.95	48.15

• การปล่อยก๊าซ CO₂ ต่อหน่วยการผลิตไฟฟ้า (kWh) มีการเปลี่ยนแปลงเป็นช่วงตามสัดส่วนเชื้อเพลิงที่ใช้ในการผลิตไฟฟ้า จาก 0.569 กิโลกรัม ต่อ 1 kWh ในปี 2530 เพิ่มขึ้นเป็น 0.685 กิโลกรัม ต่อ 1 kWh ในปี 2534 จากนั้นจึงเริ่มมีแนวโน้มลดลงตามสัดส่วนของก๊าซธรรมชาติที่นำมาใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้ามากขึ้น โดยปี 2554 มีการปล่อยก๊าซ CO₂ ที่ระดับ 0.541 กิโลกรัม ต่อ 1 kWh

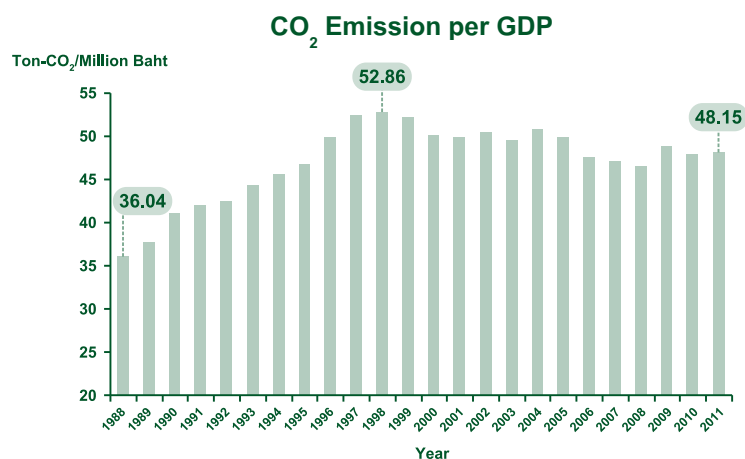


หน่วย : กิโลกรัม CO₂/กิโลวัตต์-ชั่วโมง

ปี	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542
CO ₂	0.560	0.547	0.629	0.685	0.657	0.640	0.633	0.609	0.648	0.656	0.636	0.645

ปี	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554
CO ₂	0.634	0.604	0.587	0.573	0.581	0.570	0.571	0.572	0.575	0.566	0.554	0.541

• **CO₂ Emission per GDP.** The trend had been increasing, from 36.20 tons in 1987 to 52.42 tons per one million Baht of GDP in 1997, or an average annual growth rate of 3.8%. In 1998, CO₂ emissions increased to 52.86 tons per one million Baht of GDP, which was the highest rate ever experienced in Thailand over the past 25 years. Then, the trend had declined; in 2011, CO₂ emission stood at 48.15 tons per one million Baht of GDP, or an average decrease of 0.7% per year.

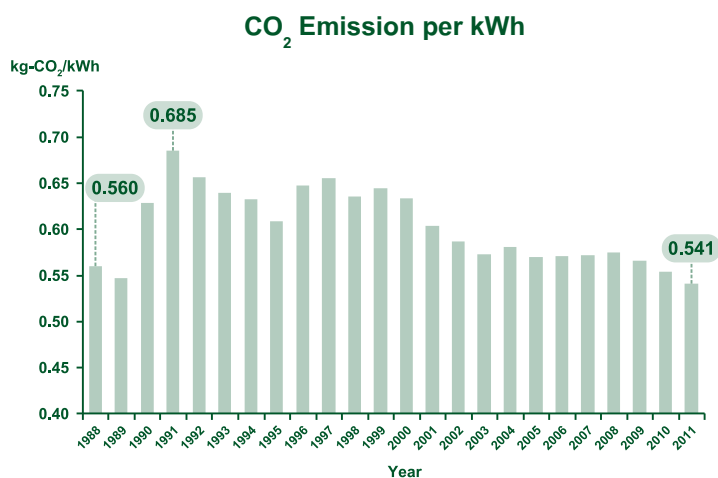


Unit : Ton-CO₂/Million Bahts

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CO ₂	36.04	37.67	41.02	42.03	42.48	44.27	45.63	46.81	49.93	52.42	52.86	52.15

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CO ₂	50.10	49.93	50.50	49.58	50.79	49.89	47.63	47.06	46.55	48.84	47.95	48.15

• **CO₂ Emission per Unit of Power Generation (kWh).** The emission varied periodically in accordance with the shares of fuel used in power generation, i.e. the emission increased from 0.569 kg/kWh in 1987 to 0.685 kg/kWh in 1991. After that the emission decreased due to greater use of natural gas as fuel in power generation. In 2011, CO₂ emission stood at 0.541 kg/kWh.



Unit : kg-CO₂/kWh

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CO ₂	0.560	0.547	0.629	0.685	0.657	0.640	0.633	0.609	0.648	0.656	0.636	0.645

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
CO ₂	0.634	0.604	0.587	0.573	0.581	0.570	0.571	0.572	0.575	0.566	0.554	0.541

Table 9.1-1Y
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	32,152	9,540	8,150	49,842
1988	36,609	9,824	9,777	56,210
1989	43,910	11,964	10,047	65,921
1990	53,221	16,594	9,987	79,802
1991	56,495	19,425	12,835	88,756
1992	62,417	20,790	13,754	96,962
1993	70,672	23,109	15,601	109,382
1994	78,419	26,664	17,793	122,876
1995	88,777	30,339	18,576	137,692
1996	96,916	36,777	21,860	155,553
1997	95,440	38,024	27,593	161,058
1998	85,309	30,637	29,400	145,345
1999	84,552	32,373	32,855	149,780
2000	79,242	33,100	38,385	150,727
2001	75,082	36,810	41,570	153,462
2002	78,851	39,244	45,377	163,472
2003	83,762	39,903	48,291	171,956
2004	91,671	44,763	50,902	187,336
2005	90,750	48,333	53,404	192,486
2006	87,210	51,313	54,613	193,136
2007	84,577	57,629	58,232	200,439
2008	78,416	62,154	62,624	203,195
2009	79,756	62,401	66,045	208,202
2010	80,694	63,856	75,833	220,383
2011	83,741	63,197	74,520	221,458
Growth Rate (%)				
1987	8.1	44.4	50.2	19.3
1988	13.9	3.0	20.0	12.8
1989	19.9	21.8	2.8	17.3
1990	21.2	38.7	-0.6	21.1
1991	6.2	17.1	28.5	11.2
1992	10.5	7.0	7.2	9.3
1993	13.2	11.2	13.4	12.8
1994	11.0	15.4	14.1	12.3
1995	13.2	13.8	4.4	12.1
1996	9.2	21.2	17.7	13.0
1997	-1.5	3.4	26.2	3.5
1998	-10.6	-19.4	6.6	-9.8
1999	-0.9	5.7	11.8	3.1
2000	-6.3	2.2	16.8	0.6
2001	-5.3	11.2	8.3	1.8
2002	5.0	6.6	9.2	6.5
2003	6.2	1.7	6.4	5.2
2004	9.4	12.2	5.4	8.9
2005	-1.0	8.0	4.9	2.8
2006	-3.9	6.2	2.3	0.3
2007	-3.0	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	1.7	0.4	5.5	2.5
2010	1.2	2.3	14.8	5.9
2011	3.8	-1.0	-1.7	0.5

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-2Y
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
1987	16,492	18,092	8,492	6,766	49,842
1988	18,380	21,047	9,419	7,364	56,210
1989	20,771	25,202	11,803	8,145	65,921
1990	28,149	28,354	14,460	8,838	79,802
1991	34,750	28,978	16,062	8,966	88,756
1992	37,799	30,912	18,775	9,476	96,962
1993	40,967	36,534	23,092	8,789	109,382
1994	45,559	40,939	26,929	9,450	122,876
1995	49,014	48,211	31,031	9,436	137,692
1996	56,887	52,711	35,211	10,744	155,553
1997	61,242	55,235	33,718	10,863	161,058
1998	57,974	46,741	27,746	12,884	145,345
1999	59,659	46,893	29,455	13,774	149,780
2000	62,405	45,560	29,267	13,495	150,727
2001	62,749	46,537	30,338	13,839	153,462
2002	65,265	49,245	34,352	14,609	163,472
2003	67,884	53,003	35,478	15,591	171,956
2004	74,099	56,546	40,321	16,371	187,336
2005	76,893	57,520	42,599	15,474	192,486
2006	81,028	54,831	41,057	16,220	193,136
2007	84,080	55,571	43,770	17,017	200,439
2008	85,160	52,538	48,060	17,438	203,195
2009	83,231	56,380	50,685	17,906	208,202
2010	89,965	57,587	54,173	18,658	220,383
2011	87,162	59,806	54,600	19,891	221,458
Growth Rate (%)					
1987	32.2	15.9	17.7	4.7	19.3
1988	11.5	16.3	10.9	8.8	12.8
1989	13.0	19.7	25.3	10.6	17.3
1990	35.5	12.5	22.5	8.5	21.1
1991	23.5	2.2	11.1	1.4	11.2
1992	8.8	6.7	16.9	5.7	9.3
1993	8.4	18.2	23.0	-7.2	12.8
1994	11.2	12.1	16.6	7.5	12.3
1995	7.6	17.8	15.2	-0.1	12.1
1996	16.1	9.3	13.5	13.9	13.0
1997	7.7	4.8	-4.2	1.1	3.5
1998	-5.3	-15.4	-17.7	18.6	-9.8
1999	2.9	0.3	6.2	6.9	3.1
2000	4.6	-2.8	-0.6	-2.0	0.6
2001	0.6	2.1	3.7	2.6	1.8
2002	4.0	5.8	13.2	5.6	6.5
2003	4.0	7.6	3.3	6.7	5.2
2004	9.2	6.7	13.7	5.0	8.9
2005	3.8	1.7	5.7	-5.5	2.8
2006	5.4	-4.7	-3.6	4.8	0.3
2007	3.8	1.4	6.6	4.9	3.8
2008	1.3	-5.5	9.8	2.5	1.4
2009	-2.3	7.3	5.5	2.7	2.5
2010	8.1	2.1	6.9	4.2	5.9
2011	-3.1	3.9	0.8	6.6	0.5

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-3Y
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	1,837	6,600	8,055	16,492
1988	2,520	6,231	9,629	18,380
1989	3,779	7,149	9,843	20,771
1990	8,097	10,437	9,615	28,149
1991	9,901	12,529	12,320	34,750
1992	11,630	13,129	13,039	37,799
1993	14,092	12,143	14,731	40,967
1994	16,061	12,847	16,651	45,559
1995	17,619	14,368	17,027	49,014
1996	19,185	17,506	20,196	56,887
1997	16,429	19,268	25,544	61,242
1998	13,997	16,529	27,448	57,974
1999	12,016	17,402	30,240	59,659
2000	7,559	20,321	34,526	62,405
2001	2,373	22,574	37,801	62,749
2002	2,141	21,977	41,147	65,265
2003	2,302	21,921	43,661	67,884
2004	5,576	23,037	45,486	74,099
2005	6,485	22,766	47,642	76,893
2006	6,331	26,723	47,975	81,028
2007	2,952	31,276	49,852	84,080
2008	1,211	32,310	51,639	85,160
2009	543	30,932	51,757	83,231
2010	833	31,143	57,989	89,965
2011	794	33,753	52,616	87,162
Growth Rate (%)				
1987	-32.1	45.0	54.3	32.2
1988	37.2	-5.6	19.6	11.5
1989	50.0	14.7	2.2	13.0
1990	114.3	46.0	-2.3	35.5
1991	22.3	20.1	28.1	23.5
1992	17.5	4.8	5.8	8.8
1993	21.2	-7.5	13.0	8.4
1994	14.0	5.8	13.0	11.2
1995	9.7	11.8	2.3	7.6
1996	8.9	21.8	18.6	16.1
1997	-14.4	10.1	26.5	7.7
1998	-14.8	-14.2	7.5	-5.3
1999	-14.2	5.3	10.2	2.9
2000	-37.1	16.8	14.2	4.6
2001	-68.6	11.1	9.5	0.6
2002	-9.8	-2.6	8.9	4.0
2003	7.5	-0.3	6.1	4.0
2004	142.3	5.1	4.2	9.2
2005	16.3	-1.2	4.7	3.8
2006	-2.4	17.4	0.7	5.4
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.3	3.6	1.3
2009	-55.1	-4.3	0.2	-2.3
2010	53.3	0.7	12.0	8.1
2011	-4.7	8.4	-9.3	-3.1

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-4Y
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	18,092			18,092
1988	21,047			21,047
1989	25,202			25,202
1990	28,354			28,354
1991	28,978			28,978
1992	30,912			30,912
1993	36,534			36,534
1994	40,939			40,939
1995	48,211			48,211
1996	52,711			52,711
1997	55,235			55,235
1998	46,741			46,741
1999	46,893			46,893
2000	45,560			45,560
2001	46,531		6	46,537
2002	49,240		6	49,245
2003	52,996		7	53,003
2004	56,483		63	56,546
2005	57,383		137	57,520
2006	54,601		230	54,831
2007	55,071		500	55,571
2008	50,891		1,647	52,538
2009	53,347		3,033	56,380
2010	53,742		3,845	57,587
2011	54,905		4,901	59,806
Growth Rate (%)				
1987	15.9			15.9
1988	16.3			16.3
1989	19.7			19.7
1990	12.5			12.5
1991	2.2			2.2
1992	6.7			6.7
1993	18.2			18.2
1994	12.1			12.1
1995	17.8			17.8
1996	9.3			9.3
1997	4.8			4.8
1998	-15.4			-15.4
1999	0.3			0.3
2000	-2.8			-2.8
2001	2.1			2.1
2002	5.8		-0.6	5.8
2003	7.6		19.6	7.6
2004	6.6		849.3	6.7
2005	1.6		118.1	1.7
2006	-4.9		67.8	-4.7
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	4.8		84.2	7.3
2010	0.7		26.8	2.1
2011	2.2		27.5	3.9

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-5Y
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	5,457	2,940	95	8,492
1988	5,679	3,593	147	9,419
1989	6,783	4,815	204	11,803
1990	7,932	6,157	371	14,460
1991	8,651	6,896	516	16,062
1992	10,399	7,661	715	18,775
1993	11,256	10,966	870	23,092
1994	11,970	13,817	1,142	26,929
1995	13,512	15,970	1,549	31,031
1996	14,276	19,271	1,664	35,211
1997	12,913	18,756	2,049	33,718
1998	11,686	14,108	1,951	27,746
1999	11,870	14,971	2,614	29,455
2000	12,629	12,779	3,859	29,267
2001	12,339	14,236	3,763	30,338
2002	12,862	17,266	4,224	34,352
2003	12,873	17,982	4,623	35,478
2004	13,240	21,726	5,354	40,321
2005	11,408	25,567	5,624	42,599
2006	10,058	24,590	6,408	41,057
2007	9,536	26,353	7,881	43,770
2008	8,877	29,844	9,338	48,060
2009	7,960	31,469	11,256	50,685
2010	7,462	32,713	13,998	54,173
2011	8,152	29,445	17,003	54,600
Growth Rate (%)				
1987	10.1	43.0	-53.8	17.7
1988	4.1	22.2	54.8	10.9
1989	19.5	34.0	38.8	25.3
1990	16.9	27.9	81.6	22.5
1991	9.1	12.0	38.9	11.1
1992	20.2	11.1	38.7	16.9
1993	8.2	43.1	21.7	23.0
1994	6.3	26.0	31.3	16.6
1995	12.9	15.6	35.6	15.2
1996	5.7	20.7	7.5	13.5
1997	-9.6	-2.7	23.1	-4.2
1998	-9.5	-24.8	-4.8	-17.7
1999	1.6	6.1	34.0	6.2
2000	6.4	-14.6	47.6	-0.6
2001	-2.3	11.4	-2.5	3.7
2002	4.2	21.3	12.2	13.2
2003	0.1	4.1	9.5	3.3
2004	2.9	20.8	15.8	13.7
2005	-13.8	17.7	5.1	5.7
2006	-11.8	-3.8	13.9	-3.6
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.3	18.5	9.8
2009	-10.3	5.4	20.5	5.5
2010	-6.3	4.0	24.4	6.9
2011	9.3	-10.0	21.5	0.8

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-6Y
CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1987	6,766			6,766
1988	7,364			7,364
1989	8,145			8,145
1990	8,838			8,838
1991	8,966			8,966
1992	9,476			9,476
1993	8,789			8,789
1994	9,450			9,450
1995	9,436			9,436
1996	10,744			10,744
1997	10,863			10,863
1998	12,884			12,884
1999	13,774			13,774
2000	13,495			13,495
2001	13,839			13,839
2002	14,609			14,609
2003	15,591			15,591
2004	16,371			16,371
2005	15,474			15,474
2006	16,220			16,220
2007	17,017			17,017
2008	17,438			17,438
2009	17,906			17,906
2010	18,658			18,658
2011	19,891			19,891
Growth Rate (%)				
1987	4.7			4.7
1988	8.8			8.8
1989	10.6			10.6
1990	8.5			8.5
1991	1.4			1.4
1992	5.7			5.7
1993	-7.2			-7.2
1994	7.5			7.5
1995	-0.1			-0.1
1996	13.9			13.9
1997	1.1			1.1
1998	18.6			18.6
1999	6.9			6.9
2000	-2.0			-2.0
2001	2.6			2.6
2002	5.6			5.6
2003	6.7			6.7
2004	5.0			5.0
2005	-5.5			-5.5
2006	4.8			4.8
2007	4.9			4.9
2008	2.5			2.5
2009	2.7			2.7
2010	4.2			4.2
2011	6.6			6.6

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	1987			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,837	6,600	8,055	16,492
Transport	18,092		1,647	18,092
Industry	5,457	2,940	95	8,492
Other	6,766			6,766
Total	32,152	9,540	8,150	49,842

	1988			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,520	6,231	9,629	18,380
Transport	21,047		3,033	21,047
Industry	5,679	3,593	147	9,419
Other	7,364			7,364
Total	36,609	9,824	9,777	56,210

	1989			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	3,779	7,149	9,843	20,771
Transport	25,202		3,845	25,202
Industry	6,783	4,815	204	11,803
Other	8,145			8,145
Total	43,910	11,964	10,047	65,921

	1990			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	8,097	10,437	9,615	28,149
Transport	28,354		3,284	28,354
Industry	7,932	6,157	371	14,460
Other	8,838			8,838
Total	53,221	16,594	9,987	79,802

	1991			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	9,901	12,529	12,320	34,750
Transport	28,978			28,978
Industry	8,651	6,896	516	16,062
Other	8,966			8,966
Total	56,495	19,425	12,835	88,756

	1992			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	11,630	13,129	13,039	37,799
Transport	30,912			30,912
Industry	10,399	7,661	715	18,775
Other	9,476			9,476
Total	62,417	20,790	13,754	96,962

	1993			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	14,092	12,143	14,731	40,967
Transport	36,534			36,534
Industry	11,256	10,966	870	23,092
Other	8,789			8,789
Total	70,672	23,109	15,601	109,382

	1994			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,061	12,847	16,651	45,559
Transport	40,939			40,939
Industry	11,970	13,817	1,142	26,929
Other	9,450			9,450
Total	78,419	26,664	17,793	122,876

Table 9.1-7Y (Cont.)
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	1995			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	17,619	14,368	17,027	49,014
Transport	48,211			48,211
Industry	13,512	15,970	1,549	31,031
Other	9,436			9,436
Total	88,777	30,339	18,576	137,692

	1996			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	19,185	17,506	20,196	56,887
Transport	52,711			52,711
Industry	14,276	19,271	1,664	35,211
Other	10,744			10,744
Total	96,916	36,777	21,860	155,553

	1997			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,429	19,268	25,544	61,242
Transport	55,235			55,235
Industry	12,913	18,756	2,049	33,718
Other	10,863			10,863
Total	95,440	38,024	27,593	161,058

	1998			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	13,997	16,529	27,448	57,974
Transport	46,741			46,741
Industry	11,686	14,108	1,951	27,746
Other	12,884			12,884
Total	85,309	30,637	29,400	145,345

	1999			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	12,016	17,402	30,240	59,659
Transport	46,893			46,893
Industry	11,870	14,971	2,614	29,455
Other	13,774			13,774
Total	84,552	32,373	32,855	149,780

	2000			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	7,559	20,321	34,526	62,405
Transport	45,560			45,560
Industry	12,629	12,779	3,859	29,267
Other	13,495			13,495
Total	79,242	33,100	38,385	150,727

	2001			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,373	22,574	37,801	62,749
Transport	46,531		6	46,537
Industry	12,339	14,236	3,763	30,338
Other	13,839			13,839
Total	75,082	36,810	41,570	153,462

	2002			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,141	21,977	41,147	65,265
Transport	49,240		6	49,245
Industry	12,862	17,266	4,224	34,352
Other	14,609			14,609
Total	78,851	39,244	45,377	163,472

Table 9.1-7Y (Cont.)
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	2003			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,302	21,921	43,661	67,884
Transport	52,996		7	53,003
Industry	12,873	17,982	4,623	35,478
Other	15,591			15,591
Total	83,762	39,903	48,291	171,956
	2004			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	5,576	23,037	45,486	74,099
Transport	56,483		63	56,546
Industry	13,240	21,726	5,354	40,321
Other	16,371			16,371
Total	91,671	44,763	50,902	187,336
	2005			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,485	22,766	47,642	76,893
Transport	57,383		137	57,520
Industry	11,408	25,567	5,624	42,599
Other	15,474			15,474
Total	90,750	48,333	53,404	192,486
	2006			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,331	26,723	47,975	81,028
Transport	54,601		230	54,831
Industry	10,058	24,590	6,408	41,057
Other	16,220			16,220
Total	87,210	51,313	54,613	193,136
	2007			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,952	31,276	49,852	84,080
Transport	55,071		500	55,571
Industry	9,536	26,353	7,881	43,770
Other	17,017			17,017
Total	84,577	57,629	58,232	200,439
	2008			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,211	32,310	51,639	85,160
Transport	50,891		1,647	52,538
Industry	8,877	29,844	9,338	48,060
Other	17,438			17,438
Total	78,416	62,154	62,624	203,195
	2009			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	543	30,932	51,757	83,231
Transport	53,347		3,033	56,380
Industry	7,960	31,469	11,256	50,685
Other	17,906			17,906
Total	79,756	62,401	66,045	208,202
	2010			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	833	31,143	57,989	89,965
Transport	53,742		3,845	57,587
Industry	7,462	32,713	13,998	54,173
Other	18,658			18,658
Total	80,694	63,856	75,833	220,383
	2011			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	794	33,753	52,616	87,162
Transport	54,905		4,901	59,806
Industry	8,152	29,445	17,003	54,600
Other	19,891			19,891
Total	83,741	63,197	74,520	221,458

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy



APPENDIX I





APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 1 ENERGY SITUATION IN 2011

บทที่ 1

สถานการณ์พลังงานปี 2554

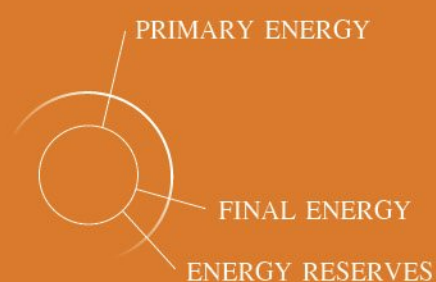


Table 1.1-1M
Primary Commercial Energy Production (Physical Unit)

2007														
Month	Hydro (GWh)	Lignite (Tons)			NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)							
		Mae-Moh	EGAT	Krabi			Others	Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
Jan	754	1,333,519	6,000	1,339,519	254,272	1,593,791	73,460	2,319	1,352	628	279	29	1,435	3,724
Feb	777	1,221,321	10,000	1,231,321	289,481	1,520,802	67,222	2,040	1,199	578	225	27	1,721	3,751
Mar	845	1,294,427	11,112	1,305,539	272,022	1,577,560	77,829	2,411	1,368	661	257	31	2,147	4,463
Apr	733	1,362,232		1,362,232	176,806	1,539,038	74,588	2,290	1,311	646	233	30	2,011	4,232
May	541	1,290,552		1,290,552	141,488	1,432,040	81,616	2,474	1,330	603	224	30	1,927	4,114
Jun	678	1,259,365		1,259,365	168,950	1,428,315	78,796	2,380	1,272	609	203	29	1,977	4,090
Jul	706	1,569,910		1,569,910	207,137	1,777,047	80,642	2,569	1,355	680	162	29	1,949	4,175
Aug	644	1,416,810		1,416,810	169,193	1,586,003	81,050	2,610	1,242	628	171	26	1,894	3,961
Sep	530	1,400,167		1,400,167	108,334	1,508,501	75,128	2,325	1,089	604	220	27	2,041	3,981
Oct	440	1,247,035		1,247,035	76,044	1,323,079	77,849	2,492	1,146	625	290	31	1,870	3,963
Nov	553	1,407,742		1,407,742	106,286	1,514,028	73,621	2,394	1,368	608	291	30	2,055	4,353
Dec	761	1,314,729		1,314,729	124,243	1,438,972	76,116	2,476	1,345	615	257	35	2,058	4,309
YTD	7,961	16,117,809	27,112	16,144,921	2,094,255	18,239,176	917,917	28,778	15,378	7,486	2,812	354	23,085	49,115

2008														
Month	Hydro (GWh)	Lignite (Tons)			NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)							
		Mae-Moh	EGAT	Krabi			Others	Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
Jan	739	1,261,965		1,261,965	154,955	1,416,920	78,937	2,444	1,311	575	203	34	2,158	4,280
Feb	714	1,322,581		1,322,581	89,760	1,412,341	73,779	2,297	1,229	557	186	32	1,900	3,903
Mar	824	1,301,825	5,000	1,306,825	145,186	1,452,011	80,927	2,437	1,307	695	211	34	1,963	4,210
Apr	824	1,454,233		1,454,233	188,095	1,642,328	84,676	2,627	1,413	639	185	32	1,901	4,169
May	542	1,489,003	5,000	1,494,003	163,792	1,657,795	93,032	2,913	1,367	656	179	34	2,075	4,310
Jun	530	1,453,387	8,000	1,461,387	251,406	1,712,793	89,748	2,835	1,413	673	175	33	2,023	4,317
Jul	521	1,227,168	2,000	1,229,168	116,533	1,345,701	91,252	2,586	1,409	685	188	37	1,964	4,282
Aug	437	1,325,345	3,248	1,328,593	183,916	1,512,510	92,033	2,945	1,456	675	194	38	2,144	4,506
Sep	388	1,382,595		1,382,595	127,742	1,510,337	85,680	2,727	1,413	547	101	37	2,453	4,552
Oct	376	1,328,904		1,328,904	106,675	1,435,579	87,900	2,906	1,452	660	259	38	2,255	4,664
Nov	428	1,344,442		1,344,442	83,357	1,427,799	76,497	2,072	1,413	644	250	41	2,406	4,753
Dec	626	1,529,399		1,529,399	39,872	1,569,271	82,395	2,281	1,273	660	251	43	2,505	4,732
YTD	6,951	16,420,847	23,248	16,444,095	1,651,290	18,095,385	1,016,856	31,071	16,455	7,665	2,381	431	25,748	52,680

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

Month	Hydro (GWh)	Lignite (Tons)				NG (MMSCF)		Condensate (1,000 Barrels)		Crude Oil (1,000 Barrels)			
		EGAT		Others		Total	Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi	Total	Total								
Jan	743	1,468,620		1,468,620	93,065	1,561,685	89,297	2,513	667	280	39	2,443	4,762
Feb	715	1,174,194		1,174,194	138,458	1,312,652	77,109	2,328	601	248	35	2,181	4,183
Mar	810	1,254,630		1,254,630	211,163	1,465,793	94,185	2,793	646	268	35	2,666	5,065
Apr	719	1,227,083		1,227,083	217,794	1,444,877	84,015	2,351	668	99	38	3,160	4,780
May	540	1,413,339		1,413,339	154,931	1,568,270	97,526	2,612	687	116	38	3,713	4,777
Jun	368	1,435,227		1,435,227	177,569	1,612,796	90,670	2,624	802	167	39	3,004	4,626
Jul	369	1,469,759		1,469,759	178,411	1,648,170	89,842	2,626	664	194	37	2,995	4,701
Aug	584	1,279,005		1,279,005	217,282	1,496,287	90,983	2,686	896	193	41	2,931	4,709
Sep	392	1,254,357		1,254,357	125,811	1,380,168	91,238	2,484	792	183	38	2,479	4,132
Oct	476	1,143,009		1,143,009	109,720	1,252,729	93,542	2,607	645	207	40	2,699	4,234
Nov	517	1,237,910		1,237,910	115,830	1,353,740	92,919	2,379	822	174	37	3,160	4,823
Dec	733	1,274,633		1,274,633	194,300	1,468,933	100,188	2,620	902	132	37	3,686	5,434
YTD	6,966	15,631,766		15,631,766	1,934,334	17,566,100	1,091,516	30,623	7,783	2,262	454	35,116	56,225

Month	Hydro (GWh)	Lignite (Tons)				NG (MMSCF)		Condensate (1,000 Barrels)		Crude Oil (1,000 Barrels)			
		EGAT		Others		Total	Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi	Total	Total								
Jan	619	1,358,183		1,358,183	177,050	1,535,233	99,097	2,568	733	128	36	2,910	4,648
Feb	639	1,209,511		1,209,511	252,862	1,462,373	91,510	2,302	631	161	34	2,727	4,300
Mar	769	1,343,448		1,343,448	222,982	1,566,430	112,982	2,903	683	169	39	3,056	4,860
Apr	513	1,412,283		1,412,283	206,286	1,618,569	101,499	2,550	677	106	37	2,849	4,539
May	521	1,537,747		1,537,747	183,169	1,720,916	107,313	2,727	677	121	39	3,193	4,903
Jun	416	1,242,187		1,242,187	218,660	1,460,847	110,437	2,734	876	113	37	3,264	4,971
Jul	335	1,276,520		1,276,520	153,860	1,430,380	106,670	2,846	891	88	36	3,329	5,057
Aug	341	1,291,936		1,291,936	132,330	1,424,266	110,458	2,751	818	93	35	3,377	5,019
Sep	245	1,303,351		1,303,351	123,300	1,426,651	108,301	2,662	746	113	32	3,266	4,781
Oct	171	1,301,037		1,301,037	165,200	1,466,237	114,006	2,852	733	98	33	3,009	4,449
Nov	329	1,370,110		1,370,110	173,200	1,543,310	108,213	2,687	714	102	30	2,786	4,281
Dec	450	1,340,950		1,340,950	261,900	1,602,850	110,923	2,767	709	117	33	2,619	4,099
YTD	5,347	15,987,263		15,987,263	2,270,799	18,258,062	1,281,410	32,349	7,960	1,409	421	36,386	55,909

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

2011														
Month	Hydro (GWh)	Lignite (Tons)			NG (MMSCF)	Condensate (1,000 Barrels)	Crude Oil (1,000 Barrels)							
		Mae-Moh	EGAT	Total			Others	Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total
Jan	577	1,645,139		1,645,139	191,874	1,837,013	114,514	2,815	890	633	141	33	2,555	4,252
Feb	652	1,394,702		1,394,702	176,770	1,571,472	106,540	2,656	703	526	144	31	2,357	3,761
Mar	584	1,529,052		1,529,052	200,700	1,729,752	120,666	3,033	860	702	155	34	2,515	4,266
Apr	470	1,455,516		1,455,516	172,400	1,627,916	110,347	2,721	898	727	138	30	2,277	4,069
May	374	1,340,459		1,340,459	171,000	1,511,459	117,604	2,650	878	762	206	31	2,702	4,579
Jun	394	1,618,168		1,618,168	182,905	1,801,073	106,908	2,372	771	762	188	31	2,633	4,385
Jul	392	1,456,668		1,456,668	861,525	2,318,193	100,192	2,347	845	755	190	31	2,448	4,270
Aug	902	1,664,345		1,664,345	310,755	1,975,100	105,572	2,486	814	784	177	33	2,604	4,412
Sep	999	1,377,383		1,377,383	1,080,640	2,458,023	105,368	2,355	798	724	125	32	2,615	4,293
Oct	1,137	1,352,220		1,352,220	136,026	1,488,246	101,950	2,416	806	468	151	32	2,623	4,080
Nov	632	1,141,767		1,141,767	155,800	1,297,567	103,541	2,334	808	765	189	31	2,602	4,395
Dec	822	1,582,917		1,582,917	128,375	1,711,292	113,914	2,525	810	778	179	31	2,535	4,334
YTD	7,935	17,558,336		17,558,336	3,768,770	21,327,106	1,307,117	30,710	9,883	8,386	1,981	381	30,466	51,097

Table 1.1-2M
Primary Commercial Energy Production

Unit : KTOE

2007														
Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total		
		EGAT		Non EGAT			Total	Benjamas	Sirikit	Tantawan	Fang		Others	Total
		Mae-Moh	Krabi											
Jan	167	330	2	332	1,805	289	185	86	38	4	196	510	3,214	
Feb	172	303	3	306	1,652	254	164	79	31	4	236	513	3,023	
Mar	187	321	3	324	1,912	300	187	90	35	4	294	611	3,453	
Apr	162	337		337	1,833	285	179	88	32	4	275	579	3,273	
May	120	320		320	2,005	308	182	83	31	4	264	563	3,378	
Jun	150	312		312	1,936	296	174	83	28	4	271	560	3,328	
Jul	156	389		389	1,981	320	185	93	22	4	267	571	3,507	
Aug	143	351		351	1,991	325	170	86	23	4	259	542	3,426	
Sep	117	347		347	1,846	289	149	83	30	4	279	545	3,191	
Oct	97	309		309	1,913	310	157	86	40	4	256	542	3,204	
Nov	122	349		349	1,809	298	187	83	40	4	281	596	3,220	
Dec	169	326		326	1,870	308	184	84	35	5	282	590	3,317	
YTD	1,764	3,992	7	3,999	22,553	3,581	2,103	1,024	384	48	3,156	6,716	39,526	

2008														
Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total		
		EGAT		Non EGAT			Total	Benjamas	Sirikit	Tantawan	Fang		Others	Total
		Mae-Moh	Krabi											
Jan	164	313		313	1,939	304	179	79	28	5	295	586	3,374	
Feb	158	328		328	1,813	286	168	76	25	4	260	534	3,158	
Mar	183	322	1	323	1,988	303	179	95	29	5	269	576	3,436	
Apr	183	360		360	2,080	327	193	87	25	4	260	571	3,603	
May	120	369	1	370	2,286	363	187	90	24	5	284	590	3,800	
Jun	117	360	2	362	2,205	353	193	92	24	5	277	591	3,738	
Jul	115	304	1	305	2,242	322	193	94	26	5	269	586	3,621	
Aug	97	328	1	329	2,261	367	199	92	27	5	293	617	3,751	
Sep	86	342		342	2,105	339	193	75	14	5	336	623	3,551	
Oct	83	329		329	2,160	362	199	90	35	5	309	638	3,619	
Nov	95	333		333	1,880	258	193	88	34	6	329	650	3,252	
Dec	139	379		379	2,024	284	174	90	34	6	343	648	3,491	
YTD	1,540	4,067	6	4,073	24,984	3,867	2,250	1,048	326	59	3,521	7,203	42,387	

Table 1.1-2M (Cont.)
Primary Commercial Energy Production

Unit : KTOE

2009														
Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total		
		EGAT		Non EGAT			Total	Benjamas	Sirikit	Tantawan	Fang		Others	Total
		Mae-Moh	Krabi											
Jan	165	364	364	41	405	2,194	313	182	91	38	5	334	652	3,729
Feb	158	291	291	60	351	1,895	290	153	82	34	5	298	572	3,266
Mar	180	311	311	92	403	2,314	348	198	88	37	5	365	693	3,938
Apr	159	304	304	95	399	2,064	293	112	91	14	5	432	654	3,569
May	120	350	350	68	418	2,396	325	30	94	16	5	508	654	3,913
Jun	82	356	356	77	433	2,228	327	110	84	23	5	411	633	3,703
Jul	82	364	364	78	442	2,207	327	111	91	26	5	410	643	3,701
Aug	129	317	317	95	412	2,235	334	123	89	26	6	401	644	3,754
Sep	87	311	311	55	366	2,242	309	108	87	25	5	339	565	3,569
Oct	105	283	283	48	331	2,298	324	88	88	28	6	369	579	3,637
Nov	115	307	307	50	357	2,283	296	113	86	24	5	432	660	3,711
Dec	162	316	316	85	401	2,462	326	123	93	18	5	504	744	4,095
YTD	1,543	3,872	3,872	843	4,715	26,819	3,811	1,451	1,064	309	62	4,802	7,688	44,576

2010														
Month	Hydro	Lignite			NG	Condensate	Crude Oil					Grand Total		
		EGAT		Non EGAT			Total	Benjamas	Sirikit	Tantawan	Fang		Others	Total
		Mae-Moh	Krabi											
Jan	137	336	336	77	413	2,435	320	115	100	18	5	398	636	3,941
Feb	141	300	300	110	410	2,248	287	102	86	22	5	373	588	3,674
Mar	170	333	333	97	430	2,776	361	125	93	23	5	418	665	4,402
Apr	114	350	350	90	440	2,494	317	119	93	15	5	390	621	3,986
May	115	381	381	80	461	2,637	339	119	93	17	5	437	671	4,223
Jun	92	308	308	95	403	2,713	340	120	93	15	5	447	680	4,228
Jul	74	316	316	67	383	2,621	354	122	97	12	5	456	692	4,124
Aug	75	320	320	58	378	2,714	342	112	95	13	5	462	687	4,196
Sep	54	323	323	54	377	2,661	331	102	85	15	4	447	654	4,077
Oct	38	322	322	72	394	2,801	355	100	79	13	5	412	609	4,197
Nov	73	339	339	76	415	2,659	334	98	89	14	4	381	586	4,067
Dec	100	332	332	114	446	2,725	344	97	85	16	5	358	561	4,176
YTD	1,185	3,960	3,960	990	4,950	31,484	4,026	1,331	1,088	193	58	4,975	7,644	49,289

Unit : KTOE

2011														
Month	Hydro	Lignite				NG	Condensate	Crude Oil					Grand Total	
		EGAT		Non EGAT	Total			Benjamas	Sirikit	Tantawan	Fang	Others		Total
		Mae-Moh	Krabi											
Jan	128	408	408	84	492	2,814	350	122	87	19	5	350	582	4,366
Feb	144	345	345	77	422	2,618	331	96	72	20	4	323	515	4,030
Mar	129	379	379	87	466	2,965	377	118	96	21	5	344	584	4,521
Apr	104	361	361	75	436	2,711	339	123	99	19	4	312	557	4,147
May	83	332	332	75	407	2,890	330	120	104	28	4	370	627	4,337
Jun	87	401	401	80	481	2,627	295	106	104	26	4	360	600	4,090
Jul	87	361	361	376	737	2,462	292	116	103	26	4	335	584	4,162
Aug	200	412	412	135	547	2,594	309	111	107	24	5	356	604	4,254
Sep	221	341	341	471	812	2,589	293	109	99	17	4	358	588	4,503
Oct	252	335	335	59	394	2,505	301	110	64	21	4	359	558	4,010
Nov	140	283	283	68	351	2,544	291	111	105	26	4	356	601	3,927
Dec	182	392	392	56	448	2,799	314	111	106	25	4	347	593	4,336
YTD	1,758	4,349	4,349	1,643	5,992	32,116	3,822	1,351	1,147	271	52	4,166	6,987	50,675

Table 1.1-3M
Primary Commercial Energy Import (Net) (Physical Unit)

2007														
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)				
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	NG	LNG	Total
Jan	1,025,088	3,168		-127	-156	-84	-128	-66	337	82	-478	25,557		25,557
Feb	888,193	4,068		-123	-115	-36	-134	-100	281	60	-448	24,521		24,521
Mar	1,087,642	3,493		-89	-141	-8	-152	-50	390	-179	-619	29,537		29,537
Apr	1,107,507	3,954		-149	-119	-11	-77	-54	369	110	-300	25,630		25,630
May	1,316,799	3,741		-173	-183	-132	-251	-59	403	62	-735	29,367		29,367
Jun	1,206,179	3,343		-94	-205	-38	-157	-37	336	24	-508	28,663		28,663
Jul	1,131,101	3,826	51	-63	-164	-24	-113	-30	424	-3	-397	27,631		27,631
Aug	1,674,783	4,467		-119	-213	-37	-234	-29	337	94	-538	27,781		27,781
Sep	1,272,497	3,279		-116	-235	-9	-113	-19	274	6	-487	28,924		28,924
Oct	1,114,667	3,505		-132	-336	-5	-108	-29	503	119	-492	29,807		29,807
Nov	1,334,852	3,244		-73	-359	-7	-181	-22	437	67	-574	28,198		28,198
Dec	1,254,489	3,564		-159	-271	-53	-294	-19	419	69	-727	25,386		25,386
YTD	14,413,796	43,651	51	-1,417	-2,498	-443	-1,942	-514	4,510	511	-6,304	331,002		331,002

2008														
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)				
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	NG	LNG	Total
Jan	1,309,804	4,052		-191	-259	-91	-285	-16	344	137	-706	24,255		24,255
Feb	1,483,336	4,065		-138	-147	-99	-285	-12	172	-41	-721	26,922		26,922
Mar	1,322,245	4,462		-147	-297	-109	-262		156	136	-679	30,159		30,159
Apr	1,536,052	3,706		-205	-176	-115	-61	40	264	-2	-519	20,743		20,743
May	1,510,234	4,126		-83	-374	-117	-321	-3	168	-34	-933	25,698		25,698
Jun	1,245,740	3,456		-188	-315	-56	-240	-0	228	71	-728	24,875		24,875
Jul	1,363,819	3,481		-177	-429	-115	-206	204	279	-8	-732	26,916		26,916
Aug	1,252,980	3,979		-129	-405	-162	-387	126	275	-114	-1,070	27,491		27,491
Sep	1,310,956	3,070		-63	-278	-61	-275	128	331	-6	-555	27,422		27,422
Oct	1,383,522	3,886		-33	-336	-134	-419	165	271	-150	-907	26,526		26,526
Nov	1,008,607	2,485		-34	-328	-111	-206	168	184	-240	-750	22,168		22,168
Dec	1,251,705	3,789		-91	-372	-239	-424	-2	139	-67	-1,195	20,072		20,072
YTD	15,979,001	44,556		-1,478	-3,717	-1,407	-3,370	798	2,812	-320	-9,495	303,246		303,246

Table 1.1-3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit)

2009												
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)		
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	Total
Jan	893,980	3,420		-134	-259	-101	-400	35	171	-48	-907	10,029
Feb	1,136,571	2,701		-46	-25	-105	-324	-2	108	-55	-556	21,086
Mar	1,320,589	4,642		-65	-43	-54	-327	41	134	27	-421	20,698
Apr	1,590,725	3,755		-125	-350	-78	-328	24	112	-96	-952	23,966
May	1,465,033	3,707		-120	-596	-197	-278	121	150	-49	-1,120	28,009
Jun	1,234,669	4,117		-158	-270	-100	-500	79	184	-110	-1,060	27,876
Jul	1,554,504	3,377		-144	-329	-205	-329	124	248	-138	-1,022	26,711
Aug	1,448,911	3,538		-153	-564	-152	-294	166	277	-75	-1,072	29,306
Sep	1,678,140	4,146		-109	-466	-160	-328	164	207	-87	-986	28,028
Oct	2,043,748	3,747		-115	-635	-172	-193	204	275	-181	-1,091	30,219
Nov	847,676	3,859		-87	-364	-120	-224	204	337	-167	-758	28,312
Dec	1,174,294	3,227		-81	-510	-174	-269	207	279	-142	-969	19,307
YTD	16,388,840	44,237		-1,337	-4,411	-1,618	-3,795	1,367	2,483	-1,121	-10,915	293,548

2010												
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)		
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	Total
Jan	1,260,121	3,635		-86	-198	-98	-230	200	166	-8	-420	23,739
Feb	1,339,828	3,706		-79	-261	-59	-273	202	145	-66	-536	27,418
Mar	1,267,862	3,448		-71	-301	-103	-278	229	572	113	-410	20,953
Apr	1,925,201	4,400		-134	-360	-152	-292	228	745	11	-698	27,119
May	1,419,128	3,488		-158	-413	-69	-273	324	794	51	-537	28,961
Jun	1,361,404	4,046		-152	-487	-213	-268	237	791	76	-806	26,110
Jul	1,133,692	3,627		-149	-544	-133	-246	165	803	-20	-928	27,982
Aug	1,040,141	3,903		-109	-618	-312	-171	247	772	36	-927	26,361
Sep	1,612,568	3,570		-135	-731	-154	-282	247	782	52	-1,003	27,674
Oct	1,600,902	3,583		-70	-581	-286	-246	270	797	159	-753	26,285
Nov	1,327,558	3,926		-73	-474	-145	-315	263	487	-184	-928	23,715
Dec	1,615,799	4,293		-125	-477	-105	-260	288	424	11	-667	25,515
YTD	16,904,205	45,627		-1,342	-5,444	-1,827	-3,133	2,901	7,277	232	-8,613	311,830

Table 1.1-3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit)

2011													
Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (Barrels)	Petroleum Products (Million Litres)					Electricity (GWh)	NG & LNG (MMSCF)			
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		Others	Total	NG	LNG
Jan	1,535,900	3,649		-57	-306	-87	-341	210	66	-515	19,290		19,290
Feb	1,628,442	3,057		-42	-166	4	-176	209	277	106	22,174		22,174
Mar	1,414,313	3,701		-60	-260	-23	-242	165	134	-285	25,993		25,993
Apr	1,500,031	3,899		-55	-350	-127	-314	135	49	-662	26,041		26,041
May	1,473,014	4,289		-146	-408	-105	-341	212	134	-654	29,530	2,905	32,434
Jun	1,477,621	3,461		-103	-282	-114	-256	315	-40	-480	28,604	7,263	35,867
Jul	1,197,479	4,007		-84	-640	-126	-198	269	-19	-797	29,943	6,594	36,536
Aug	988,884	4,287		-167	-722	-169	-251	292	-60	-1,078	28,925	9,220	38,145
Sep	1,828,474	3,479		-67	-615	-146	-306	199	13	-921	28,933	3,584	32,518
Oct	1,025,569	3,339		-44	-321	-18	-169	257	-60	-356	22,756	3,018	25,775
Nov	1,242,255	3,499		-27	-240	-127	-236	162	106	-362	21,966	3,134	25,100
Dec	1,019,123	3,488		-82	-340	-260	-320	207	-109	-904	19,247		19,247
YTD	16,331,105	44,156		-935	-4,649	-1,297	-3,151	2,631	491	-6,910	303,402	35,719	339,121

Remarks : LPG includes Propane and Butane

Table 1.1-4M
Primary Commercial Energy Import (Net)

Unit : KTOE

2007													
Month	Coal	Crude Oil	Condensate	Petroleum Products						Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others		NG	LNG	
Jan	640	2,724		-94	-134	-68	-120	-41	86	29	628		3,650
Feb	554	3,498		-92	-99	-29	-126	-63	54	24	602		4,323
Mar	679	3,004		-66	-121	-7	-143	-32	-108	33	726		3,965
Apr	691	3,401		-111	-103	-9	-73	-34	90	31	630		4,513
May	822	3,217		-129	-157	-108	-236	-37	46	34	722		4,174
Jun	753	2,875		-70	-177	-31	-148	-23	18	29	704		3,930
Jul	706	3,290		-47	-142	-19	-106	-19	8	36	679		4,386
Aug	1,045	3,842		-89	-184	-30	-220	-19	70	29	683		5,127
Sep	794	2,820		-86	-203	-8	-106	-12	4	23	711		3,937
Oct	696	3,014		-99	-290	-4	-102	-18	89	43	732		4,061
Nov	833	2,790		-55	-309	-6	-171	-14	50	37	693		3,848
Dec	783	3,065		-118	-234	-43	-277	-12	51	36	624		3,875
YTD	8,997	37,540		-1,056	-2,154	-362	-1,828	-324	459	384	8,133		49,789

2008													
Month	Coal	Crude Oil	Condensate	Petroleum Products						Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others		NG	LNG	
Jan	818	3,484		-143	-223	-75	-268	-10	97	29	596		4,305
Feb	926	3,496		-103	-127	-81	-268	-7	-35	15	661		4,477
Mar	825	3,838		-109	-256	-89	-247		98	13	741		4,814
Apr	959	3,188		-153	-152	-94	-57	25	-2	22	510		4,246
May	943	3,548		-62	-323	-95	-303	-2	-26	14	631		4,325
Jun	778	2,972		-140	-272	-46	-226		53	19	611		3,749
Jul	851	2,994		-132	-370	-94	-193	128	-6	24	661		3,863
Aug	782	3,422		-96	-349	-132	-364	79	-67	23	675		3,973
Sep	818	2,640		-47	-239	-50	-259	81	-5	28	674		3,641
Oct	864	3,342		-25	-290	-109	-394	104	-112	23	652		4,055
Nov	630	2,137		-25	-283	-91	-193	106	-162	16	545		2,680
Dec	781	3,259		-68	-321	-195	-399	-1	-50	12	493		3,511
YTD	9,974	38,318		-1,101	-3,204	-1,150	-3,172	503	-217	240	7,451		47,642

Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net)

Unit : KTOE

2009													
Month	Coal	Crude Oil	Condensate	Petroleum Products						Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others		NG	LNG	
Jan	558	2,942		-99	-224	-83	-376	22	-36	15	246		2,965
Feb	709	2,323		-34	-21	-86	-305	-1	-41	9	518		3,071
Mar	824	3,992		-48	-37	-44	-308	26	20	11	509		4,945
Apr	993	3,229		-93	-302	-63	-309	15	-71	10	589		3,998
May	914	3,188		-90	-514	-161	-262	76	-52	13	688		3,800
Jun	771	3,541		-118	-233	-82	-471	49	-82	16	685		4,076
Jul	970	2,904		-107	-284	-168	-310	78	-103	21	656		3,657
Aug	904	3,043		-114	-486	-124	-277	105	-56	24	720		3,739
Sep	1,047	3,566		-82	-402	-130	-309	103	-65	18	689		4,435
Oct	1,276	3,223		-85	-548	-141	-182	129	-135	23	742		4,302
Nov	529	3,318		-65	-314	-98	-211	129	-124	29	696		3,889
Dec	733	2,775		-61	-439	-142	-253	130	-106	24	474		3,135
YTD	10,230	38,044		-996	-3,802	-1,322	-3,572	861	-850	212	7,212		46,017

2010													
Month	Coal	Crude Oil	Condensate	Petroleum Products						Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG	Others		NG	LNG	
Jan	787	3,126		-64	-170	-80	-217	126	-6	14	583		4,099
Feb	836	3,187		-59	-225	-48	-257	128	-49	12	674		4,199
Mar	791	2,965		-53	-259	-84	-262	144	84	49	515		3,890
Apr	1,202	3,784		-100	-310	-124	-275	144	8	63	666		5,058
May	886	3,000		-118	-356	-56	-257	204	38	68	712		4,121
Jun	850	3,480		-113	-420	-174	-252	149	57	67	642		4,286
Jul	708	3,119		-111	-469	-109	-232	104	-15	68	688		3,751
Aug	649	3,357		-81	-533	-255	-161	156	27	66	648		3,873
Sep	1,007	3,070		-101	-530	-126	-265	155	39	67	680		3,896
Oct	999	3,082		-52	-501	-234	-231	170	118	68	646		4,065
Nov	829	3,376		-54	-409	-118	-297	166	-137	42	583		3,981
Dec	1,009	3,692		-93	-411	-86	-244	182	8	36	627		4,720
YTD	10,551	39,239		-1,000	-4,693	-1,494	-2,949	1,828	173	620	7,662		49,937

Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net)

Unit : KTOE

Month	2011											
	Coal	Crude Oil	Condensate	Petroleum Products					Electricity	NG & LNG		Grand Total
				Gasoline	Diesel	JP&KERO.	Fuel Oil	LPG		NG	LNG	
Jan	959	3,138		-42	-264	-71	-321	132	52	474		4,092
Feb	1,016	2,629		-31	-143	4	-166	132	209	545		4,250
Mar	883	3,183		-45	-224	-18	-228	104	100	639		4,482
Apr	936	3,353		-41	-302	-104	-296	85	39	640		4,397
May	919	3,689		-109	-352	-86	-321	133	102	726	71	4,864
Jun	922	2,976		-77	-243	-93	-241	198	-30	703	178	4,384
Jul	747	3,446		-62	-552	-103	-186	170	-11	736	162	4,459
Aug	617	3,687		-125	-622	-138	-237	184	-45	711	227	4,327
Sep	1,141	2,992		-50	-530	-119	-288	126	13	711	88	4,180
Oct	640	2,871		-33	-277	-15	-160	162	-32	559	74	3,889
Nov	775	3,010		-20	-207	-104	-222	102	84	540	77	4,113
Dec	636	3,000		-61	-293	-212	-301	130	-61	473		3,351
YTD	10,194	37,974		-696	-4,008	-1,060	-2,966	1,658	421	7,455	878	50,771

Remarks : LPG includes Propane and Butane

Table 1.1-5M
Primary Commercial Energy Consumption (Physical Unit)

2007							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,092	1,314,931	162,436	1,477,367	98,987	3,488	1,336,755
Feb	1,058	1,209,466	171,839	1,381,305	91,714	3,260	1,156,021
Mar	1,235	1,323,731	173,758	1,497,489	107,330	3,640	1,225,674
Apr	1,102	1,084,906	396,243	1,481,149	100,187	3,411	1,177,802
May	943	1,265,741	150,468	1,416,209	110,948	3,404	1,111,781
Jun	1,014	1,281,557	129,667	1,411,224	107,425	3,403	1,140,853
Jul	1,130	1,491,570	141,709	1,633,279	108,239	3,297	1,228,538
Aug	981	1,493,135	202,103	1,695,238	108,798	3,429	1,364,789
Sep	805	1,381,626	121,568	1,503,194	104,017	3,302	1,130,312
Oct	943	1,293,124	202,545	1,495,669	107,620	3,475	1,204,470
Nov	990	1,328,185	136,701	1,464,886	101,785	3,397	1,148,552
Dec	1,181	1,343,078	170,342	1,513,420	101,471	3,526	1,188,252
YTD	12,471	15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800

2008							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	1,083	1,317,911	155,859	1,473,770	103,163	3,540	1,480,758
Feb	886	1,291,476	200,731	1,492,207	100,668	3,332	1,343,930
Mar	980	1,354,518	238,846	1,593,364	111,051	3,641	1,380,277
Apr	1,088	1,414,483	183,093	1,597,576	105,393	3,593	1,438,085
May	711	1,491,436	188,339	1,679,775	118,699	3,387	1,387,797
Jun	759	1,372,230	230,523	1,602,753	114,593	3,088	1,338,584
Jul	799	1,262,475	191,082	1,453,557	118,136	3,044	1,349,000
Aug	711	1,334,370	185,890	1,520,260	119,490	3,150	1,306,324
Sep	719	1,386,029	200,477	1,586,506	113,069	3,012	1,333,755
Oct	648	1,337,526	180,396	1,517,922	114,394	3,229	1,402,158
Nov	613	1,366,674	113,379	1,480,053	98,638	3,107	1,186,122
Dec	765	1,478,337	55,472	1,533,809	102,443	3,408	1,032,211
YTD	9,763	16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,979,000

2009							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	914	1,461,488	111,470	1,572,958	99,315	3,565	1,263,101
Feb	824	1,144,939	157,131	1,302,070	98,170	3,095	1,173,015
Mar	945	1,255,136	247,544	1,502,680	114,859	3,469	1,230,511
Apr	831	1,313,460	234,662	1,548,122	107,953	3,294	1,475,963
May	689	1,370,259	183,435	1,553,694	125,502	3,435	1,432,156
Jun	552	1,463,154	194,639	1,657,793	118,513	3,170	1,523,827
Jul	616	1,451,536	165,359	1,616,895	116,521	3,277	1,486,020
Aug	861	1,304,125	179,357	1,483,482	120,255	3,262	1,390,062
Sep	599	1,243,891	134,061	1,377,952	119,232	3,161	1,467,969
Oct	752	1,287,741	41,449	1,329,190	123,725	3,382	1,297,112
Nov	854	1,227,355	193,949	1,421,304	121,197	3,276	1,277,320
Dec	1,012	1,295,181	199,472	1,494,653	119,472	3,680	1,370,606
YTD	9,448	15,818,265	2,042,529	17,860,794	1,384,714	40,065	16,387,662

Table 1.1-5M (Cont.)
Primary Commercial Energy Consumption (Physical Unit)

2010							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	784	1,363,194	171,521	1,534,715	122,784	3,442	1,315,121
Feb	783	1,161,660	144,184	1,305,844	118,896	3,346	1,235,730
Mar	1,341	1,370,186	189,422	1,559,608	133,909	3,677	1,555,802
Apr	1,258	1,427,231	161,905	1,589,136	128,586	3,358	1,516,103
May	1,314	1,482,298	165,206	1,647,504	136,239	3,368	1,509,430
Jun	1,206	1,257,482	188,479	1,445,961	136,516	3,295	1,492,723
Jul	1,138	1,278,053	155,133	1,433,186	134,618	3,415	1,451,511
Aug	1,112	1,370,701	134,749	1,505,450	136,787	3,314	1,450,044
Sep	1,028	1,219,748	132,236	1,351,984	135,942	3,215	1,454,902
Oct	967	1,340,644	61,942	1,402,586	140,259	3,292	1,463,079
Nov	816	1,357,249	290,589	1,647,838	131,900	3,470	1,322,788
Dec	875	1,375,750	222,319	1,598,069	136,408	3,635	1,136,970
YTD	12,624	16,004,196	2,017,685	18,021,881	1,592,846	40,827	16,904,203

2011							
Month	Hydro / Import (GWh)	Lignite (Tons)			NG & LNG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		EGAT	Others	Total			
		Mae-Moh					
Jan	991	1,491,892	175,748	1,667,640	133,781	3,592	1,385,272
Feb	1,291	1,350,179	194,535	1,544,714	128,688	3,348	1,260,210
Mar	1,377	1,524,371	183,361	1,707,732	146,628	3,702	1,454,517
Apr	1,493	1,453,644	176,201	1,629,845	136,356	3,552	1,385,742
May	1,451	1,552,462	160,161	1,712,623	150,000	3,560	1,422,583
Jun	1,467	1,490,675	164,590	1,655,265	142,734	3,528	1,360,044
Jul	1,709	1,537,595	76,045	1,613,640	136,686	3,542	1,497,297
Aug	1,698	1,393,272	194,823	1,588,095	143,673	3,537	1,422,174
Sep	2,128	1,344,072	179,521	1,523,593	137,848	3,429	1,391,979
Oct	2,311	1,391,102	181,797	1,572,899	127,695	3,361	1,347,782
Nov	1,542	1,277,770	41,765	1,319,535	128,612	3,298	1,263,207
Dec	1,288	1,354,134	78,443	1,432,577	133,138	3,801	1,140,297
YTD	18,745	17,161,168	1,806,990	18,968,158	1,645,841	42,248	16,331,105

Table 1.1-6M
Primary Commercial Energy Consumption

Unit : KTOE

2007								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	196	326	77	403	2,432	2,832	834	6,697
Feb	196	300	82	382	2,253	2,652	722	6,205
Mar	220	328	83	411	2,637	2,966	765	6,999
Apr	193	269	189	458	2,462	2,778	735	6,626
May	154	314	72	386	2,726	2,763	694	6,723
Jun	179	317	62	379	2,639	2,762	712	6,671
Jul	192	369	68	437	2,659	2,663	767	6,718
Aug	172	370	96	466	2,673	2,768	852	6,931
Sep	140	342	58	400	2,556	2,676	706	6,478
Oct	140	320	97	417	2,644	2,819	752	6,772
Nov	159	329	65	394	2,501	2,745	717	6,516
Dec	205	333	81	414	2,493	2,853	742	6,707
YTD	2,148	3,916	1,030	4,946	30,676	33,277	8,997	80,044

2008								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	193	326	74	400	2,535	2,858	924	6,910
Feb	173	320	96	416	2,473	2,687	839	6,588
Mar	196	336	114	450	2,729	2,950	862	7,187
Apr	205	350	87	437	2,590	2,921	898	7,051
May	134	369	90	459	2,916	2,725	866	7,100
Jun	136	340	110	450	2,816	2,469	836	6,707
Jul	139	313	91	404	2,903	2,418	842	6,706
Aug	120	331	89	420	2,936	2,509	815	6,800
Sep	114	343	96	439	2,778	2,395	833	6,559
Oct	106	331	86	417	2,811	2,570	875	6,779
Nov	111	339	54	393	2,424	2,478	740	6,146
Dec	151	366	26	392	2,517	2,733	644	6,437
YTD	1,780	4,064	1,013	5,077	32,426	31,714	9,974	80,971

2009								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	180	362	53	415	2,440	2,866	788	6,689
Feb	167	284	75	359	2,412	2,486	732	6,156
Mar	191	311	118	429	2,822	2,782	768	6,992
Apr	169	325	112	437	2,652	2,642	921	6,821
May	133	339	87	426	3,084	2,757	894	7,294
Jun	98	362	93	455	2,912	2,534	951	6,950
Jul	103	360	79	439	2,863	2,614	928	6,947
Aug	153	323	86	409	2,955	2,600	868	6,985
Sep	105	308	64	372	2,930	2,521	916	6,844
Oct	128	319	20	339	3,040	2,707	810	7,024
Nov	144	304	93	397	2,978	2,616	797	6,932
Dec	186	321	95	416	2,935	2,951	856	7,344
YTD	1,755	3,918	974	4,892	34,022	32,075	10,229	82,973

Table 1.1-6M (Cont.)
Primary Commercial Energy Consumption

Unit : KTOE

2010								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	151	338	82	420	3,017	2,749	821	7,158
Feb	153	288	69	357	2,921	2,678	771	6,880
Mar	219	339	90	429	3,290	2,953	971	7,862
Apr	177	354	77	431	3,159	2,685	946	7,398
May	183	367	79	446	3,347	2,693	942	7,611
Jun	159	311	90	401	3,354	2,625	932	7,471
Jul	142	317	74	391	3,308	2,724	906	7,471
Aug	141	340	64	404	3,361	2,633	905	7,444
Sep	121	302	63	365	3,340	2,552	908	7,286
Oct	106	332	30	362	3,446	2,613	913	7,440
Nov	115	336	139	475	3,241	2,765	826	7,422
Dec	136	341	106	447	3,352	2,894	710	7,539
YTD	1,805	3,964	962	4,926	39,136	32,563	10,551	88,981

2011								
Month	Hydro / Import Electricity	Lignite			NG	Petroleum	Imported Coal	Total
		EGAT Mae-Moh	Others	Total				
Jan	163	370	84	454	3,287	2,860	865	7,629
Feb	199	334	93	427	3,162	2,671	787	7,246
Mar	197	378	87	465	3,603	2,952	908	8,125
Apr	191	360	84	444	3,350	2,833	865	7,683
May	175	385	76	461	3,686	2,832	888	8,042
Jun	178	369	79	448	3,507	2,809	849	7,791
Jul	199	381	36	417	3,358	2,820	935	7,729
Aug	268	345	93	438	3,530	2,802	888	7,926
Sep	317	333	86	419	3,387	2,722	869	7,714
Oct	352	345	87	432	3,137	2,675	841	7,437
Nov	218	317	20	337	3,160	2,630	788	7,133
Dec	222	335	37	372	3,271	3,025	712	7,602
YTD	2,679	4,251	862	5,113	40,438	33,631	10,194	92,055

Table 1.2-1M
Final Modern Energy Consumption (Physical Unit)

2007													
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity*	NG in Industry (MMSCF)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	(GWh)	(MMSCF)
Jan	841	162	1,004	467	210	403	441	2	1,644	316	3,482	10,272	11,385
Feb	705	172	876	430	200	373	414	1	1,501	314	3,234	10,101	10,461
Mar	770	174	944	471	216	418	429	2	1,718	321	3,575	12,074	10,798
Apr	722	396	1,118	441	211	403	406	1	1,573	306	3,340	11,382	10,752
May	586	150	737	471	209	396	413	2	1,561	302	3,354	11,880	11,579
Jun	572	130	702	475	215	403	376	2	1,574	292	3,338	12,008	10,777
Jul	729	142	870	486	217	400	396	1	1,498	291	3,290	11,878	10,466
Aug	928	202	1,130	514	226	412	411	1	1,555	207	3,326	11,908	11,227
Sep	600	122	722	495	219	374	386	2	1,436	263	3,176	11,748	10,606
Oct	671	203	874	519	233	387	400	2	1,499	329	3,369	11,741	12,586
Nov	727	137	864	524	226	363	420	1	1,533	276	3,344	11,292	12,266
Dec	814	170	984	520	241	380	439	1	1,610	224	3,415	11,035	12,232
YTD	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	137,320	135,136

2008													
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity*	NG in Industry (MMSCF)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	(GWh)	(MMSCF)
Jan	890	156	1,046	545	232	370	457	2	1,628	303	3,538	11,098	12,840
Feb	823	201	1,024	516	225	354	441	1	1,521	250	3,308	11,033	12,544
Mar	808	239	1,047	548	230	374	433	1	1,695	251	3,533	12,234	13,581
Apr	859	183	1,042	525	229	374	410	1	1,612	357	3,509	11,804	13,373
May	869	188	1,057	571	216	362	397	2	1,548	267	3,364	12,344	13,401
Jun	881	231	1,112	557	204	354	377	1	1,361	230	3,086	12,173	12,757
Jul	890	191	1,081	620	208	351	371	1	1,246	246	3,043	12,400	14,779
Aug	832	186	1,018	609	233	355	369	1	1,325	253	3,145	12,408	14,256
Sep	820	200	1,020	596	234	334	336	1	1,276	227	3,005	11,816	14,337
Oct	839	180	1,020	619	249	351	387	1	1,394	227	3,228	12,006	15,221
Nov	787	113	901	566	254	344	336	1	1,402	203	3,107	10,824	12,555
Dec	772	55	827	554	294	388	322	1	1,627	222	3,408	9,839	12,891
YTD	10,072	2,124	12,196	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	139,978	162,535

Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)

2009													
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity* (GWh)	NG in Industry (MMSCF)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		
Jan	777	111	888	558	287	378	396	1	1,718	218	3,556	9,681	14,278
Feb	745	157	902	489	255	334	365	1	1,439	212	3,095	10,274	14,056
Mar	709	248	956	559	289	373	405	2	1,624	214	3,465	11,923	15,986
Apr	943	235	1,177	531	277	357	344	1	1,586	195	3,292	11,267	15,255
May	931	183	1,115	557	284	368	349	1	1,658	215	3,433	12,148	16,044
Jun	1,018	195	1,212	563	262	345	322	1	1,459	215	3,168	11,900	16,715
Jul	967	165	1,132	598	269	362	356	1	1,471	218	3,276	12,067	16,360
Aug	916	179	1,096	611	263	353	363	1	1,446	188	3,225	12,486	16,543
Sep	977	134	1,111	588	254	346	347	2	1,394	229	3,159	12,124	17,501
Oct	889	41	931	612	265	358	378	2	1,472	251	3,337	12,348	18,368
Nov	902	194	1,096	600	248	339	390	2	1,473	215	3,267	11,706	18,356
Dec	1,005	199	1,204	630	278	378	416	2	1,714	250	3,668	11,368	18,072
YTD	10,778	2,043	12,821	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	139,292	197,533
2010													
Month	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity* (GWh)	NG in Industry (MMSCF)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total		
Jan	780	172	952	625	256	350	434	2	1,565	206	3,437	11,719	18,389
Feb	770	144	914	589	240	352	398	1	1,545	219	3,344	11,737	18,598
Mar	1,000	189	1,189	639	244	376	436	1	1,686	253	3,636	13,257	19,329
Apr	1,010	162	1,171	598	240	367	383	1	1,547	214	3,351	12,909	18,583
May	1,007	165	1,172	613	233	366	342	2	1,588	211	3,355	13,911	18,965
Jun	1,020	188	1,208	621	240	377	341	1	1,508	200	3,288	13,377	19,757
Jul	1,019	155	1,174	645	248	388	365	1	1,514	210	3,372	13,497	19,690
Aug	959	135	1,094	650	242	377	397	1	1,431	202	3,299	13,036	19,488
Sep	1,017	132	1,150	635	234	374	369	1	1,403	189	3,205	12,967	19,878
Oct	987	62	1,049	647	237	379	399	1	1,434	192	3,289	13,099	19,946
Nov	908	291	1,198	648	241	391	406	1	1,582	200	3,469	12,192	20,317
Dec	813	222	1,035	676	252	413	441	1	1,665	180	3,628	12,186	21,638
YTD	11,289	2,018	13,307	7,587	2,908	4,509	4,712	15	18,468	2,475	40,674	153,884	234,578

Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)

Month	2011											
	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (Million Litres)							Electricity* (GWh)	
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	NG in Industry (MMSCF)
Jan	835	176	1,011	670	236	395	481	1	1,623	177	3,584	11,893
Feb	814	195	1,009	613	221	375	435	1	1,492	203	3,340	11,863
Mar	914	183	1,097	697	227	389	477	1	1,704	207	3,701	13,221
Apr	854	176	1,030	660	228	390	426	1	1,658	164	3,526	12,335
May	866	160	1,026	696	223	388	388	1	1,686	153	3,535	13,665
Jun	872	165	1,036	689	223	399	383	1	1,604	172	3,471	13,589
Jul	919	76	995	714	223	390	410	1	1,519	215	3,471	13,628
Aug	891	195	1,086	737	213	420	417	1	1,535	181	3,504	13,646
Sep	854	180	1,034	704	154	448	397	1	1,500	161	3,363	13,568
Oct	776	182	957	663	135	441	409	1	1,499	197	3,344	12,624
Nov	792	42	834	607	130	425	411	1	1,573	140	3,287	11,667
Dec	784	78	862	728	181	477	445	1	1,789	172	3,794	11,631
YTD	10,169	1,807	11,976	8,178	2,394	4,937	5,077	13	19,181	2,142	41,921	153,332
												295,160

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 1.2-2M
Final Modern Energy Consumption

Unit : KTOE

Month	2007											Electricity*	Natural Gas	Total
	Solid Fossil Fuel					Petroleum Products								
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total			
Jan	525	77	602	294	156	300	361	1	1,417	297	2,826	875	280	4,583
Feb	440	82	522	271	149	278	339	1	1,294	296	2,628	861	257	4,268
Mar	481	83	564	297	161	311	350	1	1,481	302	2,903	1,029	265	4,761
Apr	450	189	639	278	157	300	331	1	1,356	288	2,711	970	264	4,584
May	366	72	438	297	156	295	338	1	1,346	284	2,717	1,012	285	4,452
Jun	357	62	419	299	161	300	308	1	1,357	275	2,701	1,023	265	4,408
Jul	455	68	523	306	162	298	324	1	1,291	274	2,656	1,012	257	4,448
Aug	579	96	675	324	169	307	336	1	1,340	195	2,672	1,015	276	4,638
Sep	374	58	432	312	163	279	316	1	1,238	248	2,557	1,001	261	4,251
Oct	419	97	516	327	174	289	327	1	1,292	310	2,720	1,000	309	4,545
Nov	454	65	519	330	169	270	343	1	1,322	260	2,695	962	301	4,477
Dec	508	81	589	327	180	283	359	1	1,388	211	2,749	940	301	4,579
YTD	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,701	3,320	53,994

Month	2008											Electricity*	Natural Gas	Total
	Solid Fossil Fuel					Petroleum Products								
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total			
Jan	555	74	629	344	173	276	373	1	1,404	286	2,857	946	315	4,747
Feb	514	96	610	325	167	264	360	1	1,311	235	2,663	940	308	4,521
Mar	504	114	618	345	171	279	354	1	1,461	237	2,848	1,042	334	4,842
Apr	536	87	623	331	171	279	335	1	1,389	336	2,842	1,006	329	4,800
May	542	90	632	360	161	270	325	1	1,335	252	2,704	1,052	329	4,717
Jun	550	110	660	351	152	264	309	1	1,173	217	2,467	1,037	313	4,477
Jul	556	91	647	391	155	261	304	1	1,074	232	2,418	1,057	363	4,485
Aug	520	89	609	384	174	264	302	1	1,142	238	2,505	1,057	350	4,521
Sep	512	96	608	376	174	249	275	1	1,100	214	2,389	1,007	352	4,356
Oct	524	86	610	390	186	261	316	1	1,202	213	2,569	1,023	374	4,576
Nov	491	54	545	357	189	256	274	1	1,209	191	2,477	922	308	4,252
Dec	482	26	508	349	219	289	263	1	1,402	209	2,732	838	317	4,395
YTD	6,287	1,013	7,300	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,928	3,993	54,692

Table 1.2-2M (Cont.)
Final Modern Energy Consumption

Unit : KTOE

2009														
Month	Solid Fossil Fuel			Petroleum Products										
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity*	Natural Gas	Total
Jan	485	53	538	351	214	282	324	1	1,480	205	2,857	825	351	4,571
Feb	465	75	540	308	190	248	298	1	1,240	200	2,485	875	345	4,245
Mar	442	118	560	352	215	278	331	1	1,400	202	2,779	1,016	393	4,748
Apr	588	112	700	335	206	266	282	1	1,367	184	2,641	960	375	4,676
May	581	87	668	351	212	274	285	1	1,429	202	2,754	1,035	394	4,851
Jun	635	93	728	355	196	257	263	1	1,257	205	2,531	1,014	411	4,684
Jul	604	79	683	377	201	269	291	1	1,268	205	2,612	1,028	402	4,725
Aug	572	86	658	385	196	263	297	1	1,247	177	2,566	1,064	406	4,694
Sep	610	64	674	370	189	258	283	1	1,201	216	2,518	1,033	430	4,655
Oct	555	20	575	385	198	267	309	1	1,269	236	2,665	1,052	451	4,743
Nov	563	93	656	378	185	253	319	1	1,270	202	2,608	997	451	4,712
Dec	627	95	722	397	207	282	340	2	1,477	235	2,940	969	444	5,075
YTD	6,728	974	7,702	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,869	4,853	56,383

2010														
Month	Solid Fossil Fuel			Petroleum Products										
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total	Electricity*	Natural Gas	Total
Jan	487	82	569	394	191	260	354	1	1,349	194	2,743	999	452	4,763
Feb	481	69	550	371	179	262	325	1	1,332	206	2,676	1,000	457	4,683
Mar	624	90	714	403	182	280	356	1	1,453	238	2,913	1,130	475	5,232
Apr	630	77	707	377	179	274	313	1	1,334	201	2,679	1,100	457	4,943
May	628	79	707	386	174	272	280	2	1,368	199	2,681	1,185	466	5,039
Jun	637	90	727	392	179	281	278	1	1,300	188	2,619	1,140	485	4,971
Jul	636	74	710	407	185	289	298	1	1,305	198	2,683	1,150	484	5,027
Aug	599	64	663	410	180	281	324	1	1,233	190	2,619	1,111	479	4,872
Sep	635	63	698	400	174	278	302	1	1,210	178	2,543	1,105	488	4,834
Oct	616	30	646	408	177	282	326	1	1,236	180	2,610	1,116	490	4,862
Nov	567	139	706	408	179	291	332	1	1,363	188	2,762	1,039	499	5,006
Dec	507	106	613	426	188	307	361	1	1,435	169	2,887	1,038	532	5,070
YTD	7,047	962	8,009	4,781	2,166	3,360	3,851	12	15,919	2,330	32,419	13,112	5,764	59,304

Table 1.2-2M (Cont.)
Final Modern Energy Consumption

Unit : KTOE

2011														
Month	Solid Fossil Fuel			Petroleum Products								Electricity*	Natural Gas	Total
	Coal**	Lignite**	Total	LPG***	Premium	Regular	J.P.	Kerosene	Diesel	Fuel Oil	Total			
Jan	521	84	605	422	176	295	393	1	1,399	166	2,852	1,013	519	4,989
Feb	508	93	601	386	164	280	356	1	1,286	191	2,664	1,011	500	4,776
Mar	570	87	657	439	169	289	390	1	1,469	195	2,952	1,127	610	5,346
Apr	533	84	617	416	170	291	348	1	1,429	154	2,809	1,051	569	5,046
May	540	76	616	438	166	289	317	1	1,453	144	2,808	1,164	623	5,211
Jun	544	79	623	434	167	298	313	1	1,383	162	2,758	1,158	629	5,168
Jul	573	36	609	450	166	291	335	1	1,309	202	2,754	1,161	637	5,161
Aug	556	93	649	484	159	313	340	1	1,323	170	2,770	1,163	651	5,233
Sep	533	86	619	443	114	334	324	1	1,293	151	2,660	1,156	657	5,092
Oct	484	87	571	418	100	328	334	1	1,292	186	2,659	1,076	621	4,927
Nov	494	20	514	383	97	317	336	1	1,356	132	2,622	994	580	4,710
Dec	489	37	526	459	135	355	364	1	1,542	162	3,018	991	656	5,191
YTD	6,347	862	7,209	5,153	1,784	3,678	4,150	11	16,534	2,016	33,326	13,065	7,252	60,852

* Including Power Generation from SPP

** Preliminary data

*** Excluding LPG and Propane used as Feedstock in Petrochemical Industries



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 2 Oil

บทที่ 2 น้ำมัน

CRUDE OIL/CONDENSATE

REFINERY

PETROLEUM PRODUCTS

DEMAND AND SUPPLY



Table 2.1.1-1M
Production of Crude Oil

Unit : Barrels/Day

2007										
Month	Bung Ya & Muang	Fang	Neung & Sawng	Big Oil Project	Sirikit	Wichian Buri	Tantawan	Jusmin	Nang-Nual	Total
Jan	1,380	945	349	33,459	20,260	446	9,000	9,732	337	120,114
Feb	1,337	961	350	40,018	20,652	247	8,035	17,944	482	133,953
Mar	1,299	991	342	43,841	21,314	352	8,280	21,551	537	143,964
Apr	1,212	1,009	375	42,683	21,544	381	7,768	20,542	477	141,058
May	1,068	977	351	39,436	19,449	351	7,230	19,515	8	132,707
Jun	1,030	954	350	39,533	20,315	336	6,756	19,873	2,887	136,331
Jul	1,589	926	371	36,871	21,937	297	5,240	21,050	1,125	134,693
Aug	1,387	854	349	36,287	20,273	320	5,509	21,043	241	127,788
Sep	1,666	899	342	42,970	20,147	282	7,324	21,126		132,709
Oct	1,763	1,008	329	34,483	20,159	238	9,367	19,799		127,832
Nov	1,668	1,004	307	41,811	20,272	267	9,697	19,797		145,097
Dec	2,101	1,117	315	39,589	19,826	181	8,285	19,241		138,995
YTD	1,460	971	344	39,215	20,511	309	7,703	19,267	504	134,563

2008										
Month	Bung Ya & Muang	Fang	Neung & Sawng	Big Oil Project	Sirikit	Wichian Buri	Tantawan	Jusmin	Nang-Nual	Total
Jan	1,973	1,091	299	40,914	18,536	207	6,539	18,950		138,078
Feb	1,849	1,100	312	35,635	19,205	218	6,399	17,990		134,602
Mar	1,783	1,087	308	34,340	22,421	183	6,810	17,427		135,810
Apr	1,756	1,051	298	36,365	21,298	192	6,150	17,443		138,965
May	1,754	1,083	354	40,395	21,151	207	5,760	16,460		139,038
Jun	1,692	1,112	347	40,980	22,427	211	5,844	16,482		143,915
Jul	1,548	1,194	334	37,545	22,085	186	6,055	15,938		138,135
Aug	1,482	1,215	350	37,052	21,766	164	6,257	21,562		145,363
Sep	1,470	1,248	352	35,815	18,246	163	3,381	23,183		151,733
Oct	1,495	1,221	342	23,953	21,293	150	8,351	23,033		150,448
Nov	1,742	1,352	322	31,408	21,466	124	8,336	15,559		158,444
Dec	1,550	1,377	302	32,387	21,293	89	8,096	15,447		152,647
YTD	1,674	1,178	327	35,559	20,942	174	6,505	18,292		143,935

Table 2.1.1-1M (Cont.)
Production of Crude Oil

Unit : Barrels/Day

2009												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan		7,725		33,137	21,529	12,745	9,047	14,463	8,422	42,941	3,590	153,599
Feb		6,955	1,019	34,796	21,464	10,032	8,843	14,741	8,151	39,948	3,430	149,379
Mar	3,078	6,144	8,367	36,086	20,838	8,431	8,653	12,925	8,083	46,786	4,010	163,401
Apr	7,725	6,146	8,646	34,854	22,268	8,351	3,292	12,911	8,107	27,166	19,852	159,318
May		13,213	6,584	33,549	22,147	16,130	3,746	13,213	7,615	7,172	30,725	154,094
Jun	9,323	11,907	5,156	33,721	20,500	8,111	5,553	9,046	4,300	26,741	19,856	154,214
Jul	7,093	10,768	4,524	30,464	21,411	7,103	6,246	12,630	6,097	26,199	19,120	151,655
Aug	6,625	10,768	7,545	27,957	20,905	5,771	6,236	12,630	6,097	28,916	18,464	151,914
Sep	875	11,127	2,187	31,773	21,285	5,389	6,113	13,051	6,300	26,405	13,213	137,718
Oct	5,698	8,205	4,755	29,428	20,720	5,250	6,679	15,134	4,941	20,805	14,951	136,566
Nov	5,815	7,123	6,764	39,509	20,995	5,906	5,809	16,646	7,123	27,405	17,666	160,761
Dec		6,739	4,900	40,169	21,837	6,913	4,266	16,262	4,047	29,094	41,061	175,288
YTD	3,862	8,916	5,063	33,766	21,324	8,346	6,196	13,637	6,596	29,067	17,269	154,041

2010												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan	5,234	6,846	6,361	34,065	23,634	7,265	4,136	15,015	4,056	27,144	16,191	149,947
Feb	5,129	6,221	6,726	38,536	22,534	5,927	5,741	15,011	4,030	26,722	17,003	153,580
Mar	6,744	6,171	8,375	38,141	22,022	6,758	5,447	14,489	3,885	29,463	15,284	156,779
Apr	5,185	4,930	9,757	41,735	22,580	5,937	3,542	14,349	3,701	28,977	10,599	151,292
May	3,235	10,210	7,793	42,447	21,846	6,036	3,890	14,839	3,252	28,164	16,445	158,157
Jun	3,409	10,814	7,305	44,373	22,751	6,240	3,764	15,464	3,290	29,187	19,115	165,712
Jul	2,599	10,465	9,133	42,743	22,978	5,399	2,847	14,099	3,368	28,746	20,768	163,145
Aug	2,323	10,818	11,772	38,771	22,464	6,513	3,003	13,384	4,104	26,392	22,366	161,910
Sep	2,966	9,310	10,473	33,902	20,786	9,731	3,768	13,314	4,446	24,883	25,803	159,382
Oct	2,569	9,248	7,849	28,711	18,534	8,825	3,166	12,221	4,622	23,650	24,105	143,500
Nov	3,225	7,333	4,461	34,903	21,609	5,648	3,409	11,164	4,336	23,804	22,812	142,704
Dec	2,380	7,322	4,997	26,018	20,039	5,946	3,762	13,142	3,622	22,857	22,140	132,225
YTD	3,739	8,327	7,926	36,998	21,808	6,689	3,860	13,868	3,891	26,665	19,403	153,174

Table 2.1.1-1M (Cont.)
Production of Crude Oil

Unit : Barrels/Day

2011												
Month	Chaba	Bualaung	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan	2,934	6,847	7,593	28,536	20,427	3,103	4,546	12,387	5,139	28,710	16,947	137,169
Feb	2,562	6,177	8,499	29,204	18,794	2,562	5,127	13,381	4,830	25,103	18,100	134,339
Mar	3,147	6,274	8,852	27,046	22,652	3,267	4,992	13,732	3,730	27,755	16,177	137,624
Apr	2,316	5,390	7,732	27,465	24,224	2,267	4,587	13,408	4,396	29,947	13,908	135,640
May	2,318	5,220	6,660	37,797	24,566	2,403	6,643	12,840	5,869	28,337	15,043	147,696
Jun	2,506	7,695	7,233	37,000	25,386	2,187	6,252	12,423	5,286	25,714	14,476	146,158
Jul	1,991	8,260	5,800	31,291	24,366	2,465	6,136	12,715	5,048	27,248	12,410	137,730
Aug	990	10,027	10,903	31,846	25,286	2,589	5,695	12,732	4,582	26,266	11,397	142,313
Sep	1,996	10,508	13,993	26,868	24,117	2,361	4,167	12,665	4,138	26,603	15,692	143,108
Oct	1,461	9,128	14,775	28,924	15,094	1,996	4,864	12,350	4,010	26,005	13,007	131,614
Nov	1,906	8,115	13,788	30,582	25,515	2,025	6,296	12,781	5,251	26,935	13,314	146,508
Dec	1,913	7,943	11,607	31,000	25,096	2,438	5,787	11,792	3,203	26,133	12,909	139,821
YTD	2,167	7,641	9,787	30,643	22,974	2,474	5,428	12,762	4,620	27,077	14,419	139,991

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2M
Production of Condensate

Unit : Barrels/Day

2007										
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Total
Jan	23,645	12,141	3,814	2,139	393	374	10,039	16,363	754	74,818
Feb	24,976	10,940	3,490	2,209	418	497	9,159	16,645	935	72,841
Mar	25,811	11,993	3,398	4,267	390	465	10,781	17,135	1,220	77,779
Apr	25,413	12,041	3,940	4,098	265	490	12,349	13,983	556	76,328
May	24,907	11,880	2,936	4,256	389	495	12,912	17,351	1,184	79,792
Jun	24,863	10,598	4,111	4,627	617	486	12,543	17,437	964	79,345
Jul	25,671	10,601	3,806	4,658	858	419	12,898	18,804	1,619	82,868
Aug	27,380	10,342	3,875	4,665	1,246	517	11,693	19,612	596	84,179
Sep	23,912	10,484	4,045	4,405	922	374	11,182	19,047	570	77,503
Oct	25,704	11,070	4,757	4,464	375	415	11,093	19,638	532	80,377
Nov	25,256	11,639	3,811	4,050	448	490	13,252	18,691	294	79,788
Dec	25,687	11,720	3,955	3,220	269	551	12,872	19,525	103	79,865
YTD	25,276	11,291	3,829	3,931	550	464	11,746	17,869	778	78,845

2008										
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Total
Jan	24,412	11,419	3,963	4,003	70	374	13,353	19,301	193	78,833
Feb	22,971	11,842	3,759	4,400	51	363	13,915	19,850	244	79,222
Mar	22,023	11,042	3,497	4,353	281	529	13,573	20,735	685	78,625
Apr	25,311	10,147	3,147	4,320	777	552	12,058	20,981	897	87,576
May	24,343	9,752	2,902	4,100	740	476	10,027	20,561	18,697	93,973
Jun	24,503	10,069	3,095	4,324	641	401	9,686	21,037	19,265	94,495
Jul	23,634	9,906	2,725	4,365	845	434	10,123	12,438	17,896	83,422
Aug	24,827	11,690	2,702	4,369	702	556	10,064	20,313	18,871	95,008
Sep	23,672	11,997	2,363	4,542	1,071	558	9,252	17,225	19,141	90,906
Oct	24,971	11,510	1,962	4,492	682	443	8,722	20,618	18,995	93,727
Nov	20,519	8,888	1,142	3,063	552	445	6,717	15,841	11,234	69,053
Dec	18,041	8,903	530	3,304	3,137	358	5,517	13,278	17,024	73,591
YTD	23,268	10,594	2,645	4,136	800	458	10,240	18,505	12,610	84,893

Oil

Table 2.1.1-2M (Cont.)
Production of Condensate

Unit : Barrels/Day

2009												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	22,334	12,524	1,123	3,774	535	196	5,628	16,645	17,743	398	162	81,062
Feb	23,247	14,456	1,650	3,542	420	194	6,467	14,543	17,939	490	207	83,155
Mar	21,949	14,337	2,771	4,138	310	196	9,041	18,452	17,846	755	289	90,084
Apr	22,135	11,294	626	2,789	267	497	5,464	17,263	17,081	837	97	78,350
May	24,023	12,825	414	2,205	273	507	7,113	17,259	18,551	742	361	84,273
Jun	23,181	11,991	2,156	2,423	500	509	7,546	19,200	18,742	554	679	87,481
Jul	21,856	11,396	1,460	2,169	204	474	6,026	22,423	17,955	274	479	84,716
Aug	23,487	12,889	1,576	3,097	346	474	8,045	19,023	16,849	299	563	86,648
Sep	23,406	11,654	2,434	3,072	181	519	5,874	20,806	13,373	979	490	82,788
Oct	22,315	12,878	2,786	3,194	441	520	8,573	14,147	17,551	1,074	609	84,088
Nov	18,766	11,396	1,748	2,203	1,637	376	5,453	19,437	17,402	683	205	79,306
Dec	18,654	12,386	2,355	2,655	3,878	439	3,789	20,153	19,135	680	405	84,529
YTD	22,106	12,496	1,759	2,937	753	409	6,591	18,300	17,520	647	380	83,900
2010												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	20,493	11,964	1,418	2,719	5,169	424	3,176	19,886	16,604	424	554	82,831
Feb	22,722	10,912	1,046	2,595	3,864	384	3,051	17,283	19,533	532	307	82,229
Mar	25,100	12,312	1,980	3,601	3,769	520	4,693	20,384	20,422	359	502	93,642
Apr	21,198	12,889	2,835	1,958	3,045	429	5,966	19,509	16,829	162	182	85,002
May	21,225	10,794	5,024	3,510	1,998	486	6,050	20,097	17,464	881	429	87,958
Jun	21,034	10,887	4,617	1,529	2,472	385	7,729	20,682	17,598	4,125	66	91,124
Jul	22,135	11,643	4,811	2,375	2,227	415	8,044	19,744	17,682	2,734		91,810
Aug	23,374	11,146	4,301	2,871	1,424	422	9,175	20,014	13,392	2,621		88,740
Sep	23,291	11,000	5,457	2,750	1,863	342	8,830	16,858	16,088	2,267		88,746
Oct	23,953	9,908	5,290	2,969	1,639	421	8,832	20,124	17,439	1,435		92,010
Nov	21,848	9,876	4,562	3,233	1,350	448	7,947	19,437	19,160	1,698		89,559
Dec	22,798	10,801	3,942	2,588	1,491	451	7,065	20,525	18,065	1,529		89,255
YTD	22,435	11,180	3,789	2,730	2,519	428	6,733	19,568	17,508	1,567	170	88,627

Table 2.1.1-2M (Cont.)
Production of Condensate

Unit : Barrels/Day

Month	2011										Total
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others
Jan	26,038	10,861	3,344	2,224	2,426	413	6,559	19,737	17,450	1,755	
Feb	26,198	11,842	2,263	1,956	4,945	426	5,726	21,179	19,058	1,224	44
Mar	24,486	11,787	3,743	2,958	6,479	368	5,679	21,513	19,419	1,391	2
Apr	23,369	11,064	3,006	2,903	6,086	514	5,417	21,372	15,383	1,572	22
May	14,144	11,748	3,299	3,104	5,993	485	5,075	21,315	17,404	1,320	1,594
Jun	13,033	10,418	2,092	1,893	5,830	486	4,398	20,769	18,170	720	1,261
Jul	16,677	7,025	1,797	2,311	4,483	428	3,691	21,140	16,315	856	988
Aug	16,914	11,136	2,873	2,818	3,370	466	6,735	19,404	14,972	740	752
Sep	14,234	10,581	3,493	2,590	2,889	232	6,818	20,573	14,822	1,323	949
Oct	15,343	10,688	3,127	2,662	3,082	278	6,667	20,270	13,967	1,010	835
Nov	13,033	9,673	2,701	2,905	2,571	213	5,016	18,858	12,873	1,584	8,388
Dec	13,619	9,668	2,822	3,103	4,361	249	4,320	20,582	10,146	1,010	11,567
YTD	18,048	10,531	2,886	2,625	4,372	380	5,508	20,556	15,811	1,208	2,213
											84,136

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning office (EPPO)

Table 2.1.2 -1M
Import of Crude Oil Classified by Sources

Unit : Million Litres

2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,787	3,219	2,970	3,484	3,236	2,952	3,070	3,656	2,885	2,383	36,747
Far East	272	385	270	183	332	92	400	319	245	441	3,469
Others	449	723	441	549	429	520	621	739	418	873	6,456
Total	3,508	4,327	3,681	4,217	3,997	3,564	4,091	4,714	3,548	3,696	46,671
2008											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	3,633	3,183	3,913	2,957	3,684	3,010	2,982	3,637	2,730	3,745	39,145
Far East	284	352	324	559	432	239	129	178	100	51	3,128
Others	346	710	416	445	215	441	628	362	481	350	4,952
Total	4,263	4,245	4,653	3,960	4,330	3,690	3,739	4,176	3,311	4,146	47,225
2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,946	2,157	3,892	3,139	2,961	3,514	2,772	3,256	3,440	2,690	36,601
Far East	541	496	450	512	577	286	333	340	320	333	4,951
Others	239	228	462	349	433	424	581	138	500	864	5,068
Total	3,726	2,882	4,804	4,000	3,970	4,224	3,686	3,734	4,261	3,887	46,620
2010											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,863	2,990	2,821	3,074	2,637	2,960	2,788	2,906	2,740	2,703	34,553
Far East	426	640	326	433	292	198	360	372	175	48	3,825
Others	528	114	479	1,020	718	1,008	705	781	869	909	8,987
Total	3,816	3,744	3,627	4,528	3,647	4,166	3,853	4,059	3,785	3,661	47,365
2011											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Middle East	2,277	2,098	3,071	2,962	3,546	2,658	3,111	3,741	2,976	3,213	35,725
Far East	475	101	94	515	245	252	287	436	272	261	3,716
Others	1,045	1,009	712	671	631	718	655	328	380	67	6,648
Total	3,797	3,207	3,877	4,148	4,422	3,627	4,053	4,505	3,628	3,541	46,090

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1M
Material Intake by Refinery

Unit : Barrels/Day

2007									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total	
Jan	222,520	45,625	146,855	183,739	155,426	155,426	10,963	920,554	
Feb	236,333	51,662	146,289	191,418	138,577	138,577	13,292	916,148	
Mar	237,183	58,205	154,223	182,717	105,952	105,952	13,450	857,682	
Apr	235,742	71,416	151,486	181,928	152,024	152,024	14,348	958,968	
May	235,344	71,496	153,271	194,616	136,520	136,519	13,362	941,128	
Jun	237,551	77,073	119,756	192,295	149,687	149,687	12,790	938,838	
Jul	202,415	69,552	144,399	192,036	153,595	153,595	13,168	928,760	
Aug	219,338	69,769	156,598	191,481	157,608	157,608	10,362	962,764	
Sep	230,679	73,660	158,466	177,996	149,368	149,368	14,470	954,007	
Oct	127,032	64,508	151,925	186,831	156,697	156,696	13,266	856,957	
Nov	104,995	65,807	151,131	196,353	157,259	157,259	12,931	845,735	
Dec	219,551	70,580	144,208	200,101	160,332	159,395	13,426	967,594	
YTD	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759	

2008									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	Total	
Jan	260,756	71,522	137,983	185,440	156,402	156,402	11,552	980,057	
Feb	278,451	19,270	154,992	188,551	163,277	163,277	14,621	982,438	
Mar	281,982	89,858	141,679	176,493	145,208	145,208	13,578	994,005	
Apr	280,288	87,298	156,031	181,478	156,300	156,300	11,453	1,029,148	
May	283,271	79,318	150,738	178,172	153,212	153,212	11,521	1,009,444	
Jun	284,910	83,067	155,529	187,990	74,616	74,616	12,846	873,575	
Jul	281,622	77,985	123,405	176,086	143,180	143,180	12,787	958,245	
Aug	255,302	71,354	136,150	144,900	123,112	123,112	5,318	859,247	
Sep	221,823	72,068	133,765	163,538	100,524	100,524	12,344	804,585	
Oct	291,546	70,313	128,801	167,601	136,823	136,823	13,417	945,324	
Nov	288,065	80,986	141,485	159,038	62,392	62,392	11,182	805,539	
Dec	272,620	77,511	138,624	159,495	118,256	118,256	8,092	892,855	
YTD	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432	

Table 2.2-1M (Cont.)
Material Intake by Refinery

Unit : Barrels/Day

2009							
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC Total
Jan	275,497	79,034	140,722	102,001	135,780	153,916	8,742 895,692
Feb	281,149	96,003	141,430	60,011	144,470	148,293	9,964 881,320
Mar	280,573	89,528	152,348	158,352	150,411	153,092	14,176 998,481
Apr	271,846	95,418	141,552	149,691	140,085	156,241	10,023 964,856
May	250,887	97,194	143,181	148,486	134,662	156,996	9,819 941,225
Jun	275,051	81,742	145,380	152,604	134,312	154,045	7,233 950,366
Jul	277,059	90,021	140,477	145,168	122,464	166,812	11,376 953,378
Aug	270,623	89,092	104,860	145,481	149,849	140,002	10,136 910,044
Sep	267,370	86,134	135,964	168,653	146,271	158,899	10,957 974,247
Oct	268,514	75,325	130,423	144,235	151,103	150,531	11,606 931,737
Nov	243,282	86,156	133,719	161,464	151,249	133,496	8,700 918,066
Dec	257,041	56,881	140,605	143,971	151,178	157,199	9,925 916,800
YTD	268,177	85,098	137,506	140,469	142,634	152,514	10,234 936,633

2010							
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC Total
Jan	230,660	78,691	130,239	168,489	141,955	181,355	8,518 939,908
Feb	269,505	91,246	102,927	159,426	129,906	153,656	11,475 918,140
Mar	264,759	98,340	121,060	182,762	149,534	170,033	12,164 998,652
Apr	250,187	74,041	122,232	172,553	152,223	164,437	13,297 948,970
May	249,128	88,107	132,047	173,021	152,507	158,966	11,948 965,724
Jun	256,714	87,841	129,206	170,686	150,123	162,414	1,237 958,221
Jul	256,916	88,802	117,338	177,610	151,848	177,453	11,864 981,833
Aug	268,415	90,074	127,237	161,807	153,217	159,737	12,159 972,644
Sep	254,286	91,928	121,071	174,892	138,450	160,876	11,870 953,374
Oct	268,634	95,061	131,349	174,863	151,560	133,143	11,352 965,963
Nov	251,130	88,715	125,550	179,407	146,732	170,822	10,967 973,323
Dec	245,801	89,930	136,755	180,486	136,176	159,333	11,286 959,769
YTD	255,423	88,575	124,933	173,097	146,312	162,738	10,686 961,764

Table 2.2-1M (Cont.)
Material Intake by Refinery

Unit : Barrels/Day

2011								
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR	SPRC	RPC	Total
Jan	287,972	95,283	135,083	162,917	152,795	167,755	12,283	1,014,087
Feb	286,860	7,356	139,085	172,167	18,301	147,734	12,398	783,901
Mar	282,488	109,430	131,887	170,985	87,831	147,809	12,434	942,865
Apr	258,684	106,372	133,866	165,957	140,242	156,500	12,372	973,992
May	257,711	90,380	134,102	187,303	148,524	149,717	12,160	979,896
Jun	276,239	101,468	134,094	152,103	151,224	148,682	8,874	972,684
Jul	263,467	98,523	133,659	163,923	148,185	176,087	11,090	994,933
Aug	280,281	86,636	119,329	176,501	147,789	158,617	12,583	981,738
Sep	283,963	86,772	74,754	181,110	146,074	127,700	11,438	911,812
Oct	268,567	93,869	1,962	189,344	161,459	133,152	10,137	858,489
Nov	284,531	92,101	57,928	9,717	147,959	193,095	9,510	794,841
Dec	276,364	103,713	128,223	159,765	151,162	171,954	12,864	1,004,045
YTD	275,498	89,918	110,206	157,863	134,267	156,640	11,515	935,909

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1M
Production of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	782.8	445.0	337.7	5.6	1,800.1	1,797.1	3.0	480.4	690.2	4,304.7
Feb	687.8	383.7	304.2	12.1	1,649.6	1,645.5	4.1	414.8	585.6	3,832.4
Mar	701.4	399.4	302.0	5.7	1,713.4	1,711.1	2.3	501.5	574.5	3,925.5
Apr	770.7	428.8	341.9	11.8	1,864.6	1,862.6	2.0	556.4	615.7	4,260.3
May	716.2	397.5	318.7	6.1	1,831.9	1,828.5	3.4	612.3	643.6	4,324.0
Jun	699.6	375.0	324.6	16.8	1,847.7	1,846.3	1.4	542.0	647.1	4,155.1
Jul	764.3	485.9	278.4	16.9	1,906.1	1,904.0	2.1	482.9	643.9	4,218.3
Aug	741.5	418.7	322.8	8.1	1,963.2	1,961.2	2.0	512.4	684.5	4,364.6
Sep	774.6	450.6	324.0	19.4	1,904.8	1,897.8	7.0	558.5	659.5	4,378.4
Oct	703.2	468.4	234.8	4.5	1,846.2	1,844.4	1.8	562.5	676.6	4,166.2
Nov	626.3	417.6	208.7	3.2	1,672.4	1,670.1	2.3	594.8	643.0	3,870.6
Dec	734.5	397.5	337.0	13.2	1,994.7	1,994.7		633.4	688.1	4,547.3
YTD	8,702.9	5,068.1	3,634.8	123.4	21,994.9	21,963.5	31.4	6,452.0	7,752.2	50,348.0

Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	781.5	415.3	366.2	7.4	1,828.4	1,828.0	0.5	590.6	679.3	4,491.3
Feb	730.5	406.1	324.4	21.5	1,608.0	1,604.8	3.2	498.5	659.3	4,041.8
Mar	769.7	451.9	317.8	16.2	1,950.5	1,950.5		574.5	691.9	4,539.4
Apr	776.1	439.4	336.7	4.6	1,932.0	1,932.0		632.1	650.4	4,572.7
May	739.0	440.2	298.7	60.6	1,940.4	1,940.4		574.8	746.1	4,586.3
Jun	700.6	383.1	317.5	9.5	1,637.6	1,637.5		522.0	714.8	3,965.7
Jul	663.9	405.1	258.8	4.0	1,759.9	1,759.9		577.3	837.0	4,369.3
Aug	704.5	453.2	251.3	53.3	1,590.3	1,590.3		612.6	809.4	4,213.6
Sep	603.8	351.1	252.7	5.2	1,474.9	1,474.9		503.2	754.2	3,772.9
Oct	630.8	371.7	259.0	1.2	1,769.2	1,769.2		716.1	841.2	4,434.4
Nov	613.9	350.8	263.2	10.9	1,494.9	1,494.9		455.7	611.4	3,686.1
Dec	734.7	432.3	302.5	0.5	1,783.0	1,783.0		616.1	565.4	4,174.3
YTD	8,449.0	4,900.1	3,548.9	194.9	20,769.0	20,765.4	3.7	6,873.3	8,560.3	50,848.3

Table 2.3.1-1M (Cont.)
Production of Petroleum Products

Unit : Million Litres

Month	2009						
	Gasoline		Kerosene	Diesel		J.P.	Total
	Total	Regular		Total	HSD		
Jan	781.8	388.3	3.8	1,806.1	1,806.1	486.1	4,350.9
Feb	641.2	366.9	3.3	1,503.3	1,503.3	454.8	3,783.1
Mar	763.3	447.3	7.2	1,990.1	1,990.1	542.3	4,707.8
Apr	731.6	446.4	7.6	1,928.0	1,928.0	428.9	4,336.5
May	785.2	492.0	4.8	2,012.0	2,012.0	500.2	4,672.4
Jun	758.2	489.2	7.9	1,842.9	1,842.9	455.5	4,401.5
Jul	765.7	440.8	13.1	1,940.1	1,940.1	569.4	4,705.2
Aug	743.4	426.0	3.0	1,865.5	1,865.5	523.1	4,527.1
Sep	716.3	420.7	8.4	1,967.0	1,967.0	447.5	4,506.1
Oct	740.5	433.3	8.5	1,944.2	1,944.2	581.8	4,589.9
Nov	685.5	384.8	16.5	1,804.4	1,804.4	506.0	4,343.1
Dec	739.4	454.7	8.7	1,885.4	1,885.4	479.4	4,515.9
YTD	8,852.1	5,190.3	92.9	22,489.0	22,489.0	5,975.0	53,439.8

Month	2010						
	Gasoline		Kerosene	Diesel		J.P.	Total
	Total	Regular		Total	HSD		
Jan	716.5	391.0	16.4	1,820.1	1,820.1	530.9	4,483.1
Feb	661.4	382.8	0.6	1,723.9	1,723.9	493.6	4,168.6
Mar	712.5	445.0	6.7	2,037.2	2,037.2	568.1	4,783.0
Apr	739.1	469.2	2.1	1,821.8	1,821.8	533.7	4,407.3
May	751.7	440.8	12.7	2,075.3	2,075.3	473.7	4,739.9
Jun	741.7	437.4	24.4	1,947.5	1,947.5	484.3	4,565.2
Jul	742.0	447.2	25.3	2,023.3	2,023.3	519.0	4,622.5
Aug	763.2	468.9	30.5	2,036.2	2,036.2	591.4	4,774.3
Sep	749.1	449.6	112.4	1,928.3	1,928.3	490.4	4,680.4
Oct	716.2	454.3	165.2	1,960.6	1,960.6	446.2	4,693.9
Nov	666.0	413.4	55.9	1,868.4	1,868.4	498.9	4,432.0
Dec	804.6	505.4	14.7	2,062.2	2,062.2	565.8	4,902.4
YTD	8,763.9	5,305.0	466.7	23,304.8	23,304.8	6,196.1	55,253.0

Oil

Table 2.3.1-1M (Cont.)
Production of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	708.4	447.7	260.7	7.5	2,099.1		593.5	524.8	971.2	4,904.5
Feb	653.2	421.1	232.1	1.7	1,379.0		380.1	354.2	871.0	3,639.3
Mar	671.1	438.4	232.7	0.9	1,941.2		487.9	555.5	974.2	4,630.7
Apr	682.2	443.2	239.0	1.0	1,962.6		563.3	508.2	935.1	4,652.4
May	741.9	447.6	294.2	13.7	2,043.4		572.3	538.9	1,014.8	4,924.9
Jun	751.2	501.8	249.4	50.3	2,075.8		465.2	495.1	963.6	4,801.1
Jul	748.4	493.5	254.9	67.7	2,058.4		505.7	511.6	1,079.9	4,971.6
Aug	735.5	455.5	280.0	1.0	2,107.7		533.7	496.3	1,066.0	4,940.1
Sep	642.4	478.5	163.9	2.2	1,921.3		508.7	469.3	995.0	4,538.8
Oct	627.3	492.0	135.3	1.0	1,752.7	0.4	452.6	423.2	974.0	4,230.8
Nov	623.7	492.5	131.2	4.0	1,622.7		553.2	435.0	895.7	4,134.2
Dec	769.2	587.9	181.4	0.9	2,134.7		676.5	503.7	956.1	5,041.1
YTD	8,354.6	5,699.7	2,654.9	151.8	23,098.6	0.4	6,292.7	5,815.8	11,696.5	55,410.0

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Unit : Barrels/Day

2007									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular		Premium	Total				
Jan	158,825.1	90,287.6	1,136.2	365,228.8	364,620.2	110,719.0	97,470.1	140,037.2	873,410.6
Feb	154,502.0	86,191.4	2,718.0	370,553.4	369,632.4	108,385.0	93,177.4	131,544.6	860,895.5
Mar	142,309.6	81,035.7	1,156.4	347,638.0	347,171.3	87,061.6	101,751.1	116,562.4	796,473.7
Apr	161,582.4	89,900.8	2,473.9	390,926.0	390,506.7	92,500.5	116,653.0	129,085.6	893,214.6
May	145,312.4	80,650.2	1,237.6	371,680.9	370,991.0	104,246.7	124,231.7	130,582.3	877,319.6
Jun	146,675.8	78,621.2	3,522.2	387,382.8	387,089.3	84,261.0	113,633.9	135,668.9	871,145.2
Jul	155,071.6	98,586.0	3,428.9	386,735.6	386,309.5	82,009.6	97,977.3	130,643.2	855,869.8
Aug	150,445.6	84,951.5	1,643.4	398,320.8	397,915.0	92,296.3	103,962.7	138,880.7	885,557.7
Sep	162,400.1	94,471.3	4,067.3	399,354.2	397,886.6	96,777.5	117,093.3	138,268.6	917,964.4
Oct	142,674.8	95,035.3	913.0	374,582.2	374,217.0	75,740.2	114,127.6	137,277.8	845,308.2
Nov	131,308.0	87,552.6	670.9	350,630.0	350,147.8	69,375.4	124,703.8	134,809.3	811,518.1
Dec	149,025.4	80,650.2	2,678.1	404,712.0	404,712.0	98,078.7	128,512.8	139,611.1	922,635.2
YTD	149,968.9	87,333.8	2,126.4	379,017.5	378,476.4	91,719.3	111,181.2	133,586.4	867,600.4

2008									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular		Premium	Total				
Jan	158,561.4	84,261.7	1,501.4	370,970.7	370,889.6	122,547.7	119,829.0	137,825.6	911,258.4
Feb	164,093.8	91,223.1	4,829.5	361,208.7	360,489.8	117,729.7	111,979.1	148,100.0	907,920.8
Mar	156,167.2	91,687.6	3,286.8	395,744.1	395,744.1	108,872.7	116,562.4	140,382.1	921,034.3
Apr	162,714.6	92,123.1	964.4	405,056.9	405,056.9	121,076.7	132,524.0	136,360.7	958,700.4
May	149,938.4	89,313.7	12,295.3	393,694.8	393,694.8	106,640.9	116,623.2	151,378.9	930,550.5
Jun	146,885.5	80,319.5	66,566.0	343,333.9	343,312.9	79,963.1	109,440.8	149,862.6	831,456.5
Jul	134,701.1	82,192.2	811.5	357,072.5	357,072.5	106,965.5	117,130.5	169,822.0	886,518.9
Aug	142,938.5	91,951.4	10,814.2	322,661.8	322,661.8	90,003.6	124,292.6	164,222.1	854,915.1
Sep	126,590.7	73,610.4	1,090.2	309,222.8	309,222.8	90,529.8	105,499.2	158,123.1	791,028.2
Oct	127,985.3	75,415.5	243.4	358,959.4	358,959.4	96,557.0	145,292.1	170,674.1	899,714.5
Nov	128,708.3	73,547.6	2,285.2	313,415.9	313,415.9	104,681.6	95,540.6	128,184.1	772,821.5
Dec	149,065.9	87,710.9	101.4	361,759.4	361,759.4	96,333.9	125,002.7	114,716.0	846,952.6
YTD	145,195.9	84,208.1	3,349.3	356,914.9	356,853.0	103,142.5	118,117.5	147,108.6	873,828.6

Table 2.3.1-2M (Cont.)
Production of Petroleum Products

Unit : Barrels/Day

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD				
Jan	158,622.2	78,783.6	79,838.6	770.9	366,446.2	98,626.6	123,521.6	134,782.2	882,775.8
Feb	144,034.2	82,417.5	61,616.6	741.2	337,689.7	102,162.7	132,106.2	133,072.1	849,811.9
Mar	154,868.7	90,754.3	64,114.3	1,460.8	403,778.6	110,029.2	138,048.8	146,996.4	955,188.1
Apr	153,384.9	93,590.7	59,794.1	1,593.3	404,218.2	89,921.7	113,424.3	146,633.9	909,188.9
May	159,312.1	99,823.6	59,508.7	973.8	408,222.0	101,487.4	118,449.3	159,575.8	948,008.3
Jun	158,961.7	102,564.1	56,397.6	1,656.2	386,376.5	95,498.6	124,095.8	156,215.2	922,811.0
Jul	155,355.6	89,435.5	65,940.4	2,657.9	393,634.0	115,527.6	120,336.2	167,143.8	954,665.7
Aug	150,831.1	86,432.7	64,398.4	608.6	378,498.1	106,133.6	114,634.9	167,813.3	918,520.6
Sep	150,177.1	88,202.6	61,974.5	1,761.1	412,394.9	93,821.4	121,412.2	165,167.6	944,735.1
Oct	150,242.7	87,913.8	62,328.9	1,724.5	394,465.8	118,043.5	100,148.3	166,636.5	931,264.3
Nov	143,719.7	80,675.9	63,022.8	3,459.3	378,304.7	106,086.3	108,497.3	170,492.9	910,562.8
Dec	150,019.5	92,255.7	57,763.8	1,765.1	382,535.7	97,267.2	109,948.0	174,732.0	916,259.9
YTD	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9	102,961.5	118,628.9	157,616.5	920,879.0

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD				
Jan	145,373.3	79,331.4	66,041.8	3,327.4	389,286.7	107,716.2	110,820.5	173,088.5	909,594.1
Feb	148,571.7	85,989.2	62,560.0	134.7	387,243.5	110,878.4	113,551.6	176,021.8	936,409.5
Mar	144,561.7	90,287.6	54,274.0	1,359.3	413,334.9	115,263.8	114,026.2	181,894.1	970,453.3
Apr	154,957.3	98,370.9	56,586.3	440.2	381,952.7	111,893.8	102,857.6	171,939.5	924,034.7
May	152,515.1	89,435.5	63,079.6	2,576.7	421,065.2	96,110.7	111,834.9	177,633.4	961,703.4
Jun	155,502.4	91,703.8	63,798.5	5,115.6	408,306.6	101,536.7	104,702.6	181,982.0	957,128.9
Jul	150,547.1	90,734.0	59,813.0	5,133.2	410,514.7	105,301.8	94,548.4	171,830.6	937,882.5
Aug	154,848.4	95,136.8	59,711.6	6,188.2	413,132.0	119,991.3	92,681.8	181,833.3	968,693.9
Sep	157,053.9	94,261.6	62,792.2	23,565.4	404,281.1	102,815.6	100,404.6	193,198.7	981,298.5
Oct	145,312.4	92,174.5	53,137.8	33,518.0	397,793.3	90,531.1	98,606.3	186,601.3	952,366.2
Nov	139,631.4	86,672.1	52,960.2	11,719.8	391,722.7	104,597.7	100,194.9	181,332.1	929,201.2
Dec	163,248.2	102,542.4	60,705.7	2,982.5	418,407.3	114,797.2	97,246.9	197,983.6	994,668.8
YTD	151,020.0	91,416.1	59,603.9	8,042.2	401,589.8	106,771.5	103,388.9	181,312.3	952,124.9

Table 2.3.1-2M (Cont.)
Production of Petroleum Products

Unit : Barrels/Day

Month	2011									
	Gasoline		Kerosene		Diesel		LSD	J.P.	Fuel Oil	LPG
	Total	Regular	Premium	Total	Total	HSD				
Jan	143,729.8	90,835.4	52,894.3	1,521.7	425,894.1	425,894.1		120,417.3	106,478.5	197,050.3
Feb	146,729.8	94,592.6	52,137.1	381.8	309,767.9	309,767.9		85,382.7	79,564.7	195,654.7
Mar	136,161.9	88,948.5	47,213.3	182.6	393,857.1	393,857.1		98,991.8	112,707.4	197,659.0
Apr	143,027.8	92,919.8	50,107.9	209.6	411,472.4	411,472.4		118,099.6	106,547.5	196,050.0
May	150,526.8	90,815.2	59,691.3	2,779.6	414,592.9	414,592.9		116,116.0	109,339.3	205,896.4
Jun	157,494.1	105,205.7	52,288.4	10,545.7	435,205.5	435,205.5		97,532.3	103,801.0	202,025.2
Jul	151,845.6	100,128.0	51,717.5	13,735.9	417,636.3	417,636.3		102,603.3	103,800.4	219,104.8
Aug	149,228.2	92,418.0	56,810.2	202.8	427,638.9	427,638.9		108,284.3	100,696.1	216,284.6
Sep	134,683.5	100,320.7	34,362.7	461.2	402,813.5	402,813.5		106,652.4	98,391.9	208,608.5
Oct	127,275.1	99,823.6	27,451.5	202.8	355,611.7	355,550.8	81.1	91,829.6	85,864.6	197,618.4
Nov	130,762.9	103,255.9	27,506.9	838.6	340,210.0	340,210.0		115,982.1	91,200.7	187,789.5
Dec	156,065.8	119,281.1	36,804.9	182.6	433,117.1	433,117.1		137,257.5	102,197.5	193,986.6
YTD	143,967.0	98,217.6	45,749.4	2,615.8	398,036.5	398,029.6	6.8	108,436.2	100,218.2	201,554.8
										954,829.9

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1M
Sale of Petroleum Products

Unit : Million Litres

Month	Gasoline		Premium	Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular				Total	HSD				
Jan	612.9	403.3	209.6	1.5	1,644.7	1,640.2	4.5	441.4	320.3	466.8	3,487.6
Feb	572.9	372.9	199.9	1.4	1,501.4	1,497.7	3.7	414.4	339.4	430.5	3,260.0
Mar	634.0	417.5	216.5	1.7	1,718.7	1,714.6	4.0	428.6	386.2	471.2	3,640.3
Apr	613.6	402.7	210.9	1.3	1,573.5	1,570.5	3.0	405.5	376.1	441.0	3,411.0
May	604.7	395.5	209.1	1.5	1,562.3	1,560.4	1.9	413.0	350.7	471.4	3,403.6
Jun	618.1	402.7	215.5	1.8	1,574.7	1,573.0	1.7	376.3	356.5	475.0	3,402.4
Jul	617.7	400.3	217.4	1.5	1,498.4	1,496.0	2.4	395.9	297.9	485.8	3,297.1
Aug	638.0	411.7	226.3	1.4	1,555.3	1,553.4	1.9	411.1	309.7	513.6	3,429.2
Sep	593.7	374.4	219.2	1.6	1,436.6	1,433.7	2.9	386.4	388.6	494.9	3,301.8
Oct	620.4	387.4	233.0	1.8	1,499.5	1,496.4	3.0	400.3	434.4	518.6	3,474.9
Nov	589.3	362.9	226.3	1.5	1,533.8	1,531.6	2.2	420.1	328.2	523.6	3,396.5
Dec	621.5	380.1	241.4	1.3	1,610.8	1,609.5	1.4	438.7	333.4	519.7	3,525.4
Total	7,336.8	4,711.6	2,625.2	18.2	18,709.7	18,676.9	32.8	4,931.8	4,221.5	5,812.4	41,030.4

2008											
Month	Gasoline		Premium	Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular			Total	HSD					LSD
Jan	602.4	370.3	232.1	1.6	1,629.1	1,627.7	1.4	456.8	304.5	545.2	3,539.6
Feb	578.7	353.9	224.7	1.4	1,521.6	1,519.4	2.2	440.9	273.1	516.5	3,332.1
Mar	603.7	373.8	229.9	1.4	1,696.2	1,694.2	1.9	433.0	358.8	547.6	3,640.7
Apr	603.2	374.3	228.9	1.5	1,613.1	1,611.8	1.3	410.1	439.7	525.1	3,592.8
May	578.8	362.5	216.3	1.5	1,548.8	1,546.9	1.9	397.1	289.5	571.3	3,387.0
Jun	558.7	354.3	204.5	1.4	1,361.7	1,361.1	0.6	377.5	231.5	557.3	3,088.2
Jul	558.5	350.5	208.0	1.2	1,246.1	1,246.1	0.1	371.5	246.6	620.2	3,044.1
Aug	588.3	355.0	233.3	1.2	1,325.3	1,325.3		369.1	257.5	609.0	3,150.3
Sep	568.1	334.1	234.0	1.2	1,276.2	1,276.2		336.2	234.4	596.2	3,012.3
Oct	599.9	350.7	249.2	1.1	1,394.8	1,394.8		387.0	226.7	619.1	3,228.6
Nov	598.0	343.7	254.3	1.0	1,402.9	1,402.9		335.6	203.3	566.5	3,107.2
Dec	682.3	388.4	293.9	1.1	1,627.1	1,627.1		321.6	221.7	554.3	3,408.0
Total	7,120.6	4,311.4	2,809.2	15.7	17,643.0	17,633.6	9.4	4,636.5	3,287.3	6,828.4	39,531.4

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products

Unit : Million Litres

Month	2009						
	Gasoline		Kerosene	Diesel		J.P.	Total
	Total	Regular		Total	HSD		
Jan	665.2	378.3	1.0	1,718.1	1,718.1	396.2	3,564.5
Feb	588.5	333.5	1.4	1,439.3	1,439.3	364.7	3,094.8
Mar	662.0	373.0	1.7	1,627.1	1,627.1	404.7	3,468.6
Apr	634.5	357.3	1.2	1,587.3	1,587.3	344.5	3,293.7
May	652.0	367.9	1.3	1,660.3	1,660.3	349.2	3,435.0
Jun	607.9	345.4	1.4	1,459.2	1,459.2	322.0	3,170.0
Jul	630.9	361.6	1.3	1,472.0	1,472.0	356.3	3,277.0
Aug	616.4	352.9	1.4	1,446.3	1,446.3	362.9	3,262.0
Sep	600.1	346.3	1.7	1,394.4	1,394.4	346.5	3,160.7
Oct	623.3	358.1	1.7	1,472.3	1,472.3	377.7	3,381.8
Nov	587.1	339.2	1.6	1,473.9	1,473.9	390.4	3,275.8
Dec	656.4	378.0	1.9	1,715.0	1,715.0	416.3	3,679.3
Total	7,524.4	4,291.6	17.6	18,465.3	18,465.3	4,431.5	40,063.9

Month	2010						
	Gasoline		Kerosene	Diesel		J.P.	Total
	Total	Regular		Total	HSD		
Jan	605.8	349.6	1.8	1,565.5	1,565.5	433.6	3,441.9
Feb	591.6	351.7	1.4	1,546.2	1,546.2	398.1	3,422.2
Mar	620.3	376.2	1.5	1,688.0	1,688.0	436.0	3,677.0
Apr	607.4	367.3	1.1	1,548.3	1,548.3	383.4	3,357.5
May	599.1	365.7	1.9	1,588.3	1,588.3	342.0	3,368.1
Jun	617.0	377.0	1.1	1,508.8	1,508.8	340.6	3,295.2
Jul	636.6	388.3	1.0	1,516.6	1,516.6	365.2	3,415.4
Aug	619.0	377.3	0.9	1,431.3	1,431.3	396.9	3,313.6
Sep	607.4	373.5	1.1	1,404.0	1,404.0	369.4	3,215.0
Oct	615.7	378.7	1.2	1,435.1	1,435.1	398.7	3,291.3
Nov	632.0	391.2	1.1	1,582.6	1,582.6	406.4	3,470.1
Dec	664.6	412.7	1.1	1,665.5	1,665.5	441.5	3,558.4
Total	7,416.8	4,509.2	15.3	18,480.1	18,480.1	4,711.7	40,826.2

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products

Unit : Million Litres

Month	Gasoline		Premium	Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular			Total	HSD				
Jan	631.7	395.4	236.2	1.0	1,623.5	1,623.5	481.0	184.1	670.1	3,591.5
Feb	596.1	375.4	220.7	1.0	1,492.2	1,492.2	435.1	210.4	613.1	3,347.9
Mar	615.3	388.5	226.8	1.1	1,704.6	1,704.6	476.6	207.1	696.9	3,701.5
Apr	617.8	389.9	227.9	1.0	1,658.1	1,658.1	425.7	189.6	660.1	3,552.3
May	611.3	387.9	223.4	0.9	1,686.4	1,686.4	387.6	177.5	695.8	3,559.4
Jun	622.8	399.3	223.5	1.0	1,606.5	1,606.5	382.6	226.3	688.7	3,527.9
Jul	612.7	390.0	222.7	1.2	1,520.6	1,520.6	409.8	283.2	714.2	3,541.6
Aug	633.4	419.9	213.5	1.2	1,536.3	1,536.3	416.6	212.0	737.0	3,536.4
Sep	601.5	447.8	153.6	1.2	1,500.3	1,500.3	396.7	225.2	703.6	3,428.4
Oct	575.2	440.6	134.6	1.1	1,499.8	1,499.8	408.8	213.2	662.7	3,360.9
Nov	555.4	425.1	130.3	1.1	1,573.1	1,573.1	410.6	150.1	607.4	3,297.6
Dec	657.9	476.9	181.0	1.1	1,790.9	1,790.9	445.4	177.3	728.3	3,800.7
Total	7,331.1	4,936.8	2,394.3	13.0	19,192.1	19,192.1	5,076.5	2,455.9	8,178.0	42,246.7

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 2.3.2-2M
Sale of Petroleum Products

Unit : Barrels/Day

Month	2007										
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	124,353.5	81,827.0	42,526.5	304.3	333,699.2	332,786.1	913.0	89,557.2	64,986.8	94,710.7	707,613.9
Feb	128,691.8	83,765.3	44,903.9	314.4	337,262.9	336,431.7	831.1	93,087.6	76,240.1	96,704.1	732,304.2
Mar	128,634.5	84,708.1	43,926.4	344.9	348,713.3	347,881.4	811.5	86,960.2	78,357.5	95,603.4	738,611.5
Apr	128,645.4	84,428.7	44,216.6	272.5	329,894.9	329,265.9	628.9	85,015.8	78,851.9	92,458.6	715,144.6
May	122,689.8	80,244.4	42,425.0	304.3	316,980.7	316,595.2	385.4	83,795.0	71,154.8	95,644.0	690,583.3
Jun	129,588.8	84,428.7	45,181.0	377.3	330,146.5	329,790.1	356.4	78,893.8	74,742.6	99,586.9	713,355.1
Jul	125,327.4	81,218.3	44,109.0	304.3	304,015.8	303,528.9	486.9	80,325.6	60,442.0	98,565.7	668,980.1
Aug	129,446.1	83,531.3	45,914.8	284.0	315,560.5	315,175.0	385.4	83,409.5	62,836.1	104,206.1	695,768.9
Sep	124,473.2	78,495.5	45,956.7	335.4	301,192.9	300,584.9	608.0	81,011.3	81,472.6	103,759.1	692,253.0
Oct	125,875.2	78,601.0	47,274.2	365.2	304,239.0	303,610.0	608.6	81,218.3	88,137.0	105,220.6	705,037.7
Nov	123,550.7	76,084.4	47,445.3	314.4	321,571.5	321,110.3	461.2	88,076.8	68,809.3	109,776.2	712,111.7
Dec	126,098.4	77,119.8	48,978.5	263.7	326,821.1	326,557.3	284.0	89,009.4	67,644.7	105,443.8	715,298.2
YTD	126,428.2	81,190.5	45,237.6	313.6	322,406.7	321,841.5	565.2	84,985.0	72,745.1	100,159.6	707,038.8
2008											
Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	122,223.1	75,131.5	47,091.6	324.6	330,534.0	330,250.0	284.0	92,681.8	61,781.1	110,617.6	718,177.5
Feb	129,994.6	79,497.3	50,474.8	314.4	341,800.4	341,306.2	494.1	99,040.3	61,347.0	116,022.5	748,499.3
Mar	122,486.9	75,841.6	46,645.2	284.0	344,148.2	343,742.4	385.4	87,852.9	72,798.2	111,104.5	738,685.4
Apr	126,464.9	78,474.5	47,990.4	314.4	338,197.3	337,924.8	272.5	85,980.2	92,186.0	110,090.7	753,265.9
May	117,434.8	73,548.9	43,885.9	304.3	314,241.7	313,856.2	385.4	80,569.0	58,737.7	115,913.1	687,207.0
Jun	117,135.2	74,281.4	42,874.8	293.5	285,489.6	285,363.8	125.7	79,145.4	48,535.5	116,841.7	647,465.9
Jul	113,316.1	71,114.2	42,201.8	243.4	252,825.8	252,825.8	20.2	75,374.9	50,033.5	125,834.6	617,641.6
Aug	119,362.3	72,027.2	47,335.0	243.4	268,894.9	268,894.9	0.0	74,888.0	52,245.1	123,562.2	639,176.1
Sep	119,106.0	70,046.3	49,059.6	251.5	267,563.9	267,563.9	0.0	70,486.6	49,143.5	124,997.3	631,553.5
Oct	121,715.9	71,154.8	50,561.1	223.1	282,996.0	282,996.0	0.0	78,519.8	45,995.9	125,611.4	655,068.5
Nov	125,374.7	72,059.0	53,315.7	209.6	294,127.5	294,127.5	0.0	70,360.8	42,623.2	118,770.5	651,465.8
Dec	138,434.3	78,803.9	59,630.4	223.1	330,128.2	330,128.2	0.0	65,250.6	44,981.5	112,463.9	691,475.7
YTD	122,367.3	74,091.3	48,276.0	269.8	303,194.6	303,033.1	161.5	79,678.1	56,492.1	117,345.9	679,346.7

Table 2.3.2-2M (Cont.)
Sale of Petroleum Products

Unit : Barrels/Day

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD				
Jan	134,964.8	76,754.6	58,210.1	202.8	348,591.6	80,386.4	45,935.1	113,133.5	723,233.6
Feb	132,196.0	74,914.8	57,281.2	314.4	323,313.2	81,923.3	47,666.9	109,800.2	695,210.0
Mar	134,315.6	75,679.3	58,636.2	344.9	330,128.2	82,111.0	43,480.1	113,397.2	703,759.1
Apr	133,027.2	74,910.3	58,095.8	251.5	332,788.2	72,226.7	40,883.0	111,369.6	690,547.2
May	132,286.6	74,644.5	57,642.0	263.7	336,864.3	70,850.4	43,622.1	113,052.3	696,959.5
Jun	127,450.3	72,415.4	55,034.9	293.5	305,931.1	67,509.4	45,432.6	117,994.8	664,627.9
Jul	128,005.6	73,366.3	54,639.2	263.7	298,659.4	72,291.0	44,393.1	121,269.5	664,889.2
Aug	125,063.6	71,601.1	53,462.4	284.0	293,445.1	73,630.1	45,529.3	123,886.8	661,856.6
Sep	125,815.0	72,604.1	53,210.8	356.4	292,345.4	72,646.0	48,325.8	123,194.3	662,682.9
Oct	126,463.6	72,656.2	53,807.4	344.9	298,720.3	76,632.9	59,894.2	124,089.7	686,163.6
Nov	123,089.5	71,115.5	51,994.8	335.4	309,013.1	81,850.0	46,690.5	125,815.0	686,804.5
Dec	133,179.4	76,693.8	56,485.5	385.4	347,962.6	84,464.6	52,691.4	127,843.3	746,522.6
YTD	129,660.9	73,953.1	55,707.8	303.2	318,195.2	76,363.8	47,059.0	118,803.0	690,385.4

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD				
Jan	122,912.9	70,931.6	51,981.3	365.2	317,630.0	87,974.6	42,648.2	126,808.5	698,356.4
Feb	132,892.4	79,003.1	53,911.7	314.4	347,326.4	89,426.1	66,491.1	132,308.4	768,756.6
Mar	125,854.9	76,328.5	49,526.3	304.3	342,484.5	88,461.6	59,326.1	129,608.4	746,041.0
Apr	127,345.5	77,006.9	50,338.5	230.6	324,611.6	80,382.4	45,893.8	125,479.5	703,931.2
May	121,553.5	74,198.2	47,375.6	385.4	322,256.0	69,389.6	45,387.3	124,414.3	683,378.7
Jun	129,358.2	79,040.6	50,317.6	230.6	316,330.1	71,409.1	43,231.2	130,301.6	690,864.6
Jul	129,162.1	78,783.6	50,398.7	202.8	307,708.5	74,096.7	50,885.7	130,906.9	692,969.7
Aug	125,591.1	76,551.7	49,059.6	182.6	290,401.7	80,528.4	43,743.8	131,860.5	672,311.8
Sep	127,345.5	78,306.8	49,038.7	230.6	294,358.1	77,447.2	41,616.8	133,090.1	674,058.5
Oct	124,921.6	76,835.8	48,106.0	243.4	291,172.7	80,893.7	39,300.5	131,272.2	667,793.5
Nov	132,503.0	82,017.7	50,485.3	230.6	331,802.8	85,204.5	41,931.3	135,857.6	727,531.2
Dec	134,843.1	83,734.2	51,108.9	223.1	337,919.4	89,577.5	22,176.2	137,257.5	721,996.1
YTD	127,806.7	77,702.8	50,103.9	263.6	318,450.2	81,192.3	45,065.2	130,744.8	703,520.6

Table 2.3.2-2M (Cont.)
Sale of Petroleum Products

Unit : Barrels/Day

Month	2011									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	128,167.9	80,224.1	47,923.4	202.8	329,397.8		97,591.8	37,352.7	135,959.0	728,708.8
Feb	133,903.3	84,326.9	49,576.3	224.6	335,196.2		97,737.5	47,262.6	137,722.0	752,048.8
Mar	124,840.4	78,824.1	46,016.2	223.1	345,852.5		96,699.1	42,019.2	141,396.5	751,028.2
Apr	129,525.9	81,745.1	47,780.7	209.6	347,631.9		89,250.8	39,750.9	138,394.4	744,780.9
May	124,028.9	78,702.4	45,326.4	182.6	342,159.8		78,641.5	36,013.6	141,173.4	722,198.4
Jun	130,574.2	83,715.9	46,858.2	209.6	336,813.6		80,214.6	47,445.3	144,390.6	739,657.8
Jul	124,312.9	79,128.5	45,184.4	243.4	308,520.1		83,145.8	57,459.4	144,906.6	718,579.8
Aug	128,512.8	85,195.0	43,317.7	243.4	311,705.5		84,525.5	43,013.4	149,532.6	717,521.9
Sep	126,108.5	93,884.3	32,203.2	251.5	314,548.0		83,170.8	47,214.7	147,514.5	718,791.0
Oct	116,704.4	89,394.9	27,309.4	223.1	304,299.9		82,942.9	43,256.9	134,457.6	681,911.0
Nov	116,443.3	89,125.1	27,318.2	230.6	329,811.0		86,085.0	31,469.4	127,345.5	691,369.9
Dec	133,483.7	96,759.9	36,723.7	223.1	363,362.2		90,368.8	35,973.0	147,767.4	771,147.6
YTD	126,329.9	85,071.2	41,258.7	224.0	330,719.5		87,478.5	42,320.2	140,923.8	727,998.1

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG and Propane used as Feedstock in Petrochemical Industries

Table 2.3.3-1M
Import of Petroleum Products

Unit : Million Litres

2007									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Premium	Total				
Jan				7.4	7.4	16.3			23.7
Feb				22.2	22.2	23.7			45.9
Mar	73.1	60.3	12.8	56.8	56.8	0.6			130.5
Apr	17.9	13.6	4.2	24.7	24.7	0.2	91.2		134.0
May	13.2	13.2		29.0	29.0	0.2	14.3		56.6
Jun	40.2	30.3	9.9	21.2	21.2	0.1	56.2		117.7
Jul	17.8	17.8		9.2	9.2	0.4	40.9		68.2
Aug				3.0	3.0	0.3	9.8		13.2
Sep				9.2	9.2	0.2	84.0		93.4
Oct						0.2	85.5		85.7
Nov				5.1	5.1	0.2	152.8		158.1
Dec				3.0	3.0	0.2	1.4		4.6
Total	162.1	135.2	26.9	191.0	191.0	42.8	536.3		932.1
2008									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Premium	Total				
Jan						8.1			8.0
Feb				2.4	2.4	0.2			2.6
Mar				6.1	6.1	0.2	58.1		64.4
Apr				58.5	58.5	0.3	190.4	39.8	289.0
May				3.0	3.0	0.2	5.7		8.9
Jun						0.3			0.2
Jul						0.1		203.6	203.7
Aug						0.3		126.3	126.5
Sep				8.3	8.3	36.8		128.5	173.6
Oct				2.2	2.2	0.4		165.9	168.4
Nov				3.0	3.0	0.2		173.1	176.4
Dec				6.0	6.0	0.6			6.6
Total				89.6	89.6	47.9	254.3	837.2	1,229.0

Table 2.3.3-1M (Cont.)
Import of Petroleum Products

Unit : Million Litres

2009									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Premium	Total				
Jan				22.6	22.6	0.2		37.0	59.8
Feb	6.6	6.6		120.6	120.6				127.2
Mar	7.5	7.5		201.2	201.2	0.3		42.5	251.4
Apr				3.0	3.0	0.3		26.5	29.7
May				4.3	4.3	0.3		123.8	128.3
Jun				5.9	5.9	8.3		81.3	95.5
Jul				3.0	3.0	0.2		125.3	128.5
Aug				6.1	6.1	0.3	6.6	168.0	180.9
Sep				3.0	3.0	0.2	15.4	166.2	184.7
Oct				3.1	3.1	0.2	18.0	207.0	228.2
Nov				6.2	6.2	0.2	43.2	206.9	256.5
Dec				6.1	6.1	0.1		210.2	216.4
Total	14.1	14.1		385.3	385.3	10.5	83.2	1,394.7	1,887.7
2010									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Premium	Total				
Jan				3.0	3.0	0.3		203.6	206.9
Feb				6.0	6.0	0.2	1.5	206.8	214.5
Mar				3.1	3.1	0.3	47.6	233.3	284.2
Apr				6.0	6.0	0.4	1.5	232.3	240.1
May				6.0	6.0	0.5		327.7	334.1
Jun				6.0	6.0	0.1	3.2	240.7	249.9
Jul				3.1	3.1	0.4	20.2	168.2	191.9
Aug				3.1	3.1		20.2	252.4	275.6
Sep				6.4	6.4	0.2	6.9	251.2	264.6
Oct				6.3	6.3	0.3		275.7	282.3
Nov				6.3	6.3	0.2		264.9	271.3
Dec				6.2	6.2	0.2		290.3	296.8
Total				61.2	61.2	3.3	101.2	2,947.1	3,112.8

Table 2.3.3-1M (Cont.)
Import of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Total	HSD				
Jan						0.3	12.9	211.3	224.4
Feb				17.3	17.3	8.2	6.3	210.7	242.4
Mar				8.2	8.2		14.7	167.3	190.2
Apr	9.5			3.9	3.9	0.5	61.8	137.4	213.0
May						0.2	5.1	213.7	218.9
Jun				3.8	3.8	0.3		317.2	321.3
Jul	3.0			13.0	13.0	0.2	53.6	272.0	341.8
Aug						0.2	56.0	294.3	350.4
Sep						0.3	51.0	202.1	253.3
Oct	3.1					0.2	54.1	260.1	317.5
Nov	18.5	18.5		9.7	9.7	0.2	8.9	165.1	202.4
Dec						0.3	7.3	210.0	217.5
Total	34.1	18.5		56.0	56.0	10.8	331.7	2,661.2	3,093.7

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.3-2M
Import of Petroleum Products

Unit : Barrels/Day

2007									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Premium	Total				
Jan				1,501.4	1,501.4	3,307.1			4,815.0
Feb				4,986.8	4,986.8	5,323.7			10,314.6
Mar	14,831.5	12,234.4	2,597.0	11,524.3	11,524.3	121.7			26,490.8
Apr	3,752.8	2,851.3	880.5	5,178.5	5,178.5	41.9	19,120.6		28,094.4
May	2,678.1	2,678.1		5,883.9	5,883.9	40.5	2,901.3		11,497.1
Jun	8,428.2	6,352.6	2,075.6	4,444.7	4,444.7	20.9	11,782.7		24,681.2
Jul	3,611.5	3,611.5		1,866.6	1,866.6	81.1	8,298.3		13,856.8
Aug				608.6	608.6	60.8	1,988.3		2,682.4
Sep				1,928.8	1,928.8	41.9	17,611.1		19,596.2
Oct						40.5	17,347.4		17,394.4
Nov				1,069.2	1,069.2	41.9	32,035.5		33,153.8
Dec				608.6	608.6	40.5	284.0		951.3
YTD	2,793.3	2,329.7	463.5	3,291.3	3,291.3	737.5	9,241.5		16,062.7
2008									
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Premium	Total				
Jan						1,643.4			1,642.6
Feb				539.1	539.1	44.9			605.1
Mar				1,237.6	1,237.6	40.5	11,788.1		13,067.1
Apr				12,264.9	12,264.9	62.8	39,918.6	8,344.3	60,607.8
May				608.6	608.6	40.5	1,156.4		1,818.5
Jun						62.8			56.1
Jul						20.2		41,309.1	41,336.3
Aug						60.8		25,625.4	25,679.4
Sep				1,740.1	1,740.1	7,715.3		26,940.8	36,405.6
Oct				446.3	446.3	81.1		33,660.0	34,183.9
Nov				628.9	628.9	41.9		36,291.5	36,989.9
Dec				1,217.3	1,217.3	121.7			1,347.0
YTD				1,539.7	1,539.7	823.1	4,370.1	14,387.2	21,120.3

Table 2.3.3-2M (Cont.)
Import of Petroleum Products

Unit : Barrels/Day

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Total	HSD				
Jan				4,585.3	4,585.3	40.5		7,507.0	12,145.9
Feb	1,482.5	1,482.5		27,090.6	27,090.6				28,585.8
Mar	1,521.7	1,521.7		40,822.2	40,822.2	60.8		8,622.9	51,012.5
Apr				628.9	628.9	62.8		5,555.9	6,246.5
May				872.4	872.4	60.8		25,118.2	26,049.6
Jun				1,236.9	1,236.9	1,740.1		17,045.0	20,023.1
Jul				608.6	608.6	40.5		25,422.5	26,078.1
Aug				1,237.6	1,237.6	60.8	1,339.0	34,086.1	36,721.5
Sep				628.9	628.9	41.9	3,228.7	34,844.9	38,743.5
Oct				628.9	628.9	40.5	3,652.0	41,998.9	46,312.2
Nov				1,299.8	1,299.8	41.9	9,057.1	43,377.9	53,783.2
Dec				1,237.6	1,237.6	20.2		42,648.2	43,907.6
YTD	242.9	242.9		6,639.5	6,639.5	180.9	1,433.7	24,033.5	32,529.7

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular		Total	HSD				
Jan				608.6	608.6	60.8		41,309.1	41,995.1
Feb				1,347.7	1,347.7	44.9	336.9	46,453.9	48,185.7
Mar				628.9	628.9	60.8	9,657.7	47,335.0	57,680.9
Apr				1,257.9	1,257.9	83.8	314.4	48,703.2	50,348.8
May				1,217.3	1,217.3	101.4		66,488.2	67,800.0
Jun				1,257.9	1,257.9	20.9	670.9	50,464.3	52,406.7
Jul				628.9	628.9	81.1	4,098.4	34,126.7	38,936.7
Aug				628.9	628.9	41.9	4,098.4	51,210.3	55,933.8
Sep				1,341.8	1,341.8	41.9	1,446.6	52,665.7	55,494.1
Oct				1,278.2	1,278.2	60.8		55,937.7	57,278.0
Nov				1,320.8	1,320.8	41.9		55,538.0	56,891.1
Dec				1,257.9	1,257.9	40.5		58,900.0	60,223.5
YTD				1,054.6	1,054.6	56.8	1,743.8	50,784.6	53,640.3

Table 2.3.3-2M (Cont.)
Import of Petroleum Products

Unit : Barrels/Day

Month	2011							
	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG*
	Total	Regular		Total	HSD			
Jan						60.8	2,617.3	42,871.4
Feb				3,886.1	3,886.1	1,841.9	1,415.1	47,330.0
Mar				1,663.7	1,663.7		2,982.5	33,944.1
Apr	1,991.7			817.6	817.6	104.8	12,956.7	28,806.8
May						40.5	1,034.7	43,358.3
Jun				796.6	796.6	62.8		66,503.1
Jul	608.6			2,637.6	2,637.6	40.5	10,875.1	55,187.0
Aug						40.5	11,362.0	59,711.6
Sep						62.8	10,692.4	42,371.6
Oct	628.9					40.5	10,976.5	52,772.6
Nov	3,878.6	3,878.6		2,033.6	2,033.6	41.9	1,855.9	34,614.3
Dec						60.8	1,481.1	42,607.6
YTD	587.6	318.7		964.9	964.9	186.1	5,715.8	45,857.9
								53,311.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)
* Including Propane and Butane

Table 2.3.4-1M
Export of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD				
Jan	126.7	33.8	92.9	163.4	163.4	100.0	127.7	65.8	583.5
Feb	123.4	33.4	89.9	137.6	137.6	49.1	133.7	100.4	554.3
Mar	162.1	35.5	126.6	197.8	197.8	8.9	151.6	50.1	570.5
Apr	166.5	36.8	129.8	143.9	143.9	6.0	168.7	53.5	543.8
May	185.7	34.3	151.5	211.7	211.7	131.9	265.5	58.5	853.2
Jun	134.1	32.4	101.7	226.6	226.6	33.0	213.7	36.9	649.6
Jul	80.5	30.1	50.4	173.5	173.5	17.0	154.0	30.1	462.1
Aug	119.2	33.8	85.5	216.3	216.3	32.5	243.5	29.5	645.9
Sep	116.0	31.8	84.2	244.5	244.5	4.9	196.6	19.1	585.6
Oct	132.4	122.0	10.4	336.4	336.4	5.7	193.6	29.2	697.2
Nov	73.3	59.0	14.3	363.8	363.8	7.0	333.9	21.7	799.7
Dec	158.9	60.3	98.6	274.0	274.0	53.0	295.4	19.2	800.4
Total	1,578.9	543.2	1,035.7	2,689.5	2,689.5	449.0	2,478.0	514.0	7,746.6

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD				
Jan	191.4	51.4	140.1	258.8	258.8	99.2	284.8	16.4	850.7
Feb	137.8	37.4	100.4	149.5	149.5	98.8	284.8	11.6	682.4
Mar	146.6	48.3	98.3	302.9	302.9	99.8	320.1		878.9
Apr	205.0	71.9	133.1	234.4	234.4	114.9	251.4	0.1	805.7
May	83.1	30.7	52.3	377.5	377.5	66.5	327.1	2.8	907.4
Jun	187.6	61.6	125.9	315.1	315.1	55.9	240.1	0.1	798.8
Jul	176.7	86.6	90.1	429.4	429.4	115.4	205.6	0.1	927.1
Aug	128.7	105.3	23.4	405.0	405.0	113.6	387.2	0.1	1,082.9
Sep	63.4	36.3	27.0	285.9	285.9	98.0	275.1	0.2	722.6
Oct	33.4	20.7	12.7	338.5	338.5	134.2	418.6	0.7	925.4
Nov	34.0	21.9	12.1	331.5	331.5	111.1	205.5	5.0	687.0
Dec	90.8	75.8	14.9	378.0	378.0	239.3	424.0	2.1	1,134.1
Total	1,478.4	648.0	830.4	3,806.3	3,806.3	1,346.8	3,624.3	39.3	10,403.6

Table 2.3.4-1M (Cont.)
Export of Petroleum Products

Unit : Million Litres

Month	2009						
	Gasoline		Kerosene	Diesel		J.P.	Total
	Total	Regular		Total	HSD		
Jan	133.5	29.8		282.0	282.0	101.4	918.7
Feb	52.6	41.8		145.5	145.5	104.8	628.2
Mar	72.3	59.0		244.0	244.0	54.2	699.6
Apr	124.9	111.9		352.9	352.9	77.9	885.7
May	120.4	107.4		600.5	600.5	197.6	1,199.7
Jun	158.1	146.6	6.4	275.9	275.9	102.0	1,045.4
Jul	143.8	85.4		332.2	332.2	205.5	1,012.1
Aug	153.3	97.8		569.8	569.8	152.1	1,177.8
Sep	109.4	58.8		469.0	469.0	159.7	1,083.8
Oct	114.7	62.9		638.4	638.4	172.2	1,139.1
Nov	87.0	36.1	6.5	370.4	370.4	114.1	847.9
Dec	81.2	66.5	6.2	515.9	515.9	167.5	1,043.1
Total	1,351.1	903.9	19.0	4,796.5	4,796.5	1,609.3	11,681.6
Month	2010						
	Gasoline		Kerosene	Diesel		J.P.	Total
	Total	Regular		Total	HSD		
Jan	86.1	36.1		200.7	200.7	98.0	619.0
Feb	79.3	32.2		266.7	266.7	59.3	684.0
Mar	70.6	67.8		304.0	304.0	102.8	807.1
Apr	134.2	90.9		365.6	365.6	152.1	949.2
May	158.3	91.0	5.4	418.6	418.6	63.7	922.5
Jun	152.1	88.7	23.3	493.1	493.1	189.7	1,132.5
Jul	149.4	65.6	23.3	546.9	546.9	110.6	1,099.7
Aug	109.3	62.1	24.7	621.4	621.4	286.8	1,238.7
Sep	135.0	70.1	111.4	737.5	737.5	43.0	1,320.2
Oct	69.9	57.9	161.6	587.2	587.2	124.9	1,194.3
Nov	72.9	56.2	63.0	480.3	480.3	81.8	1,015.2
Dec	124.7	83.2	13.4	483.1	483.1	91.7	974.4
Total	1,341.8	801.8	426.1	5,505.3	5,505.3	1,404.5	11,957.3

Table 2.3.4-1M (Cont.)
Export of Petroleum Products

Unit : Million Litres

Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	56.6	38.4	18.2	306.0	306.0		87.3	354.2	1.7	805.7
Feb	42.1	39.7	2.4	183.0	183.0		3.9	182.8	1.6	413.3
Mar	60.0	49.5	10.5	268.5	268.5		22.5	256.6	2.0	609.7
Apr	64.7	55.6	9.1	354.0	354.0		127.9	376.0	2.2	924.8
May	146.2	77.8	68.3	407.9	407.9		105.5	345.6	2.0	1,007.1
Jun	102.7	84.4	18.3	286.0	286.0		65.3	256.2	2.5	762.0
Jul	86.7	84.0	2.7	652.9	652.9		68.8	251.6	2.5	1,119.8
Aug	167.4	73.2	94.3	721.7	721.7		169.3	307.3	2.7	1,368.4
Sep	67.3	58.3	9.0	614.9	614.9		145.8	357.3	2.8	1,188.0
Oct	47.1	45.0	2.2	320.8	320.8		18.2	223.6	3.2	613.0
Nov	45.6	43.7	1.9	250.1	250.1		127.2	244.4	3.1	670.5
Dec	82.1	80.8	1.4	339.6	339.6		259.9	327.4	3.3	1,012.2
Total	968.7	730.3	238.4	4,705.5	4,705.5		1,201.5	3,482.9	29.9	10,495.1

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2M
Export of Petroleum Products

Unit : Barrels/Day

2007											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	25,706.6	6,857.8	18,848.8	33,152.8	33,152.8	20,289.3	25,909.5	13,350.4	118,408.3		
Feb	27,719.6	7,502.7	20,194.4	30,909.4	30,909.4	11,029.4	30,033.3	22,553.0	124,523.3		
Mar	32,889.0	7,202.7	25,686.3	40,132.3	40,132.3	1,805.7	30,758.6	10,164.9	115,770.6		
Apr	34,907.8	7,715.3	27,213.4	30,169.6	30,169.6	1,257.9	35,369.1	11,216.6	114,025.1		
May	37,677.3	6,959.2	30,738.3	42,952.5	42,952.5	26,761.6	53,868.2	11,869.2	173,123.8		
Jun	28,114.9	6,792.8	21,322.0	47,508.2	47,508.2	6,918.6	44,803.6	7,736.3	136,198.2		
Jul	16,332.9	6,107.0	10,225.8	35,202.0	35,202.0	3,449.1	31,245.6	6,107.0	93,757.6		
Aug	24,184.9	6,857.8	17,347.4	43,885.9	43,885.9	6,594.0	49,404.6	5,985.3	131,069.1		
Sep	24,320.1	6,667.0	17,653.1	51,261.0	51,261.0	1,027.3	41,218.5	4,004.4	122,792.8		
Oct	26,863.1	24,753.0	2,110.0	68,253.4	68,253.4	1,156.4	39,280.2	5,924.4	141,469.7		
Nov	15,367.8	12,369.7	2,998.0	76,273.1	76,273.1	1,467.5	70,004.4	4,549.5	167,679.0		
Dec	32,239.8	12,234.4	20,005.3	55,592.8	55,592.8	10,753.3	59,934.7	3,895.5	162,412.9		
YTD	27,207.7	9,360.4	17,847.2	46,345.6	46,345.6	7,737.1	42,701.0	8,857.2	133,490.1		
2008											
Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular		Premium	Total					HSD	LSD
Jan	38,833.8	10,428.7	28,425.4	52,508.8	52,508.8	20,127.0	57,784.1	3,327.4	172,608.9		
Feb	30,954.3	8,401.2	22,553.0	33,582.5	33,582.5	22,193.6	63,975.2	2,605.7	153,296.3		
Mar	29,744.2	9,799.7	19,944.4	61,456.4	61,456.4	20,248.7	64,946.2		178,340.4		
Apr	42,979.6	15,074.3	27,905.3	49,143.5	49,143.5	24,089.5	52,707.7	20.9	168,939.7		
May	16,860.4	6,228.8	10,611.3	76,592.3	76,592.3	13,492.4	66,366.5	568.1	184,117.5		
Jun	39,331.6	12,914.8	26,395.7	66,062.8	66,062.8	11,719.8	50,338.5	20.9	167,479.7		
Jul	35,851.3	17,570.5	18,280.7	87,122.5	87,122.5	23,413.9	41,714.9	20.2	188,106.6		
Aug	26,112.4	21,364.7	4,747.7	82,171.9	82,171.9	23,048.7	78,560.4	20.2	219,721.9		
Sep	13,292.2	7,610.5	5,660.7	59,940.8	59,940.8	20,546.3	57,676.5	41.9	151,507.8		
Oct	6,776.6	4,199.8	2,576.7	68,679.5	68,679.5	27,228.3	84,931.2	142.0	187,773.6		
Nov	7,128.3	4,591.4	2,536.8	69,501.2	69,501.2	23,292.8	43,084.4	1,048.2	144,052.3		
Dec	18,422.7	15,379.3	3,023.1	76,693.8	76,693.8	48,552.4	86,026.9	426.0	230,108.3		
YTD	25,406.2	11,135.8	14,270.4	65,411.2	65,411.2	23,144.7	62,283.5	675.3	178,786.3		

Oil

Table 2.3.4-2M (Cont.)
Export of Petroleum Products

Unit : Barrels/Day

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD				
Jan	27,086.3	6,046.2	21,040.0	57,216.0	57,216.0	20,573.4	81,116.8	405.7	186,401.6
Feb	11,815.6	9,389.6	2,426.0	32,683.9	32,683.9	23,541.4	72,735.9	359.4	141,119.8
Mar	14,669.2	11,970.7	2,698.4	49,506.0	49,506.0	10,996.8	66,407.0	365.2	141,954.3
Apr	26,186.1	23,460.5	2,704.5	73,987.8	73,987.8	16,332.2	68,767.4	440.2	185,702.3
May	24,428.3	21,790.7	2,637.6	121,837.6	121,837.6	40,091.7	56,485.5	568.1	243,428.0
Jun	33,146.7	30,735.6	2,411.0	57,844.3	57,844.3	21,384.9	104,870.3	587.0	219,178.7
Jul	29,176.1	17,327.1	11,848.9	67,401.2	67,401.2	41,694.6	66,752.0	344.9	205,361.1
Aug	31,103.5	19,843.0	11,260.5	115,608.8	115,608.8	30,860.1	61,050.7	344.9	238,978.6
Sep	22,936.4	12,327.8	10,608.6	98,329.0	98,329.0	33,482.1	71,996.1	482.2	227,235.7
Oct	23,271.9	12,762.0	10,509.8	129,527.3	129,527.3	34,938.2	42,769.9	608.6	231,121.5
Nov	18,240.1	7,568.6	10,671.5	77,656.8	77,656.8	23,921.8	56,041.2	566.0	177,777.9
Dec	16,474.9	13,492.4	3,002.8	104,672.8	104,672.8	33,984.6	54,578.3	649.2	211,645.6
YTD	23,282.2	15,576.0	7,706.1	82,653.6	82,653.6	27,731.5	66,825.9	479.0	201,298.1

Month	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD				
Jan	17,469.1	7,324.4	10,124.3	40,720.7	40,720.7	19,883.5	46,746.7	770.9	125,598.6
Feb	17,813.3	7,233.1	10,580.1	59,909.4	59,909.4	13,320.6	61,639.0	988.3	153,660.4
Mar	14,324.2	13,756.1	568.1	61,679.6	61,679.6	20,857.4	66,062.1	831.8	163,762.8
Apr	28,135.9	19,057.8	9,099.1	76,650.5	76,650.5	31,888.7	61,492.3	838.6	199,017.9
May	32,118.0	18,463.3	13,654.7	84,931.2	84,931.2	12,924.3	55,308.8	791.2	187,182.1
Jun	31,888.7	18,596.5	13,292.2	103,381.7	103,381.7	39,771.8	56,796.0	733.7	237,440.2
Jul	30,312.3	13,309.8	17,002.4	110,962.5	110,962.5	22,440.0	54,010.2	689.8	223,126.2
Aug	22,176.2	12,599.6	9,576.5	126,078.1	126,078.1	58,189.9	38,813.5	1,075.3	251,342.2
Sep	28,303.6	14,696.9	13,606.7	154,621.8	154,621.8	9,015.2	60,569.8	922.4	276,800.3
Oct	14,182.2	11,747.5	2,434.7	119,139.1	119,139.1	25,341.4	49,810.3	1,075.3	242,317.2
Nov	15,283.9	11,782.7	3,501.2	100,698.1	100,698.1	17,149.9	66,125.7	377.3	212,861.0
Dec	25,300.8	16,880.7	8,420.0	98,017.9	98,017.9	18,605.3	52,671.1	385.4	197,705.8
YTD	23,121.9	13,816.6	9,303.5	94,867.6	94,867.6	24,202.4	55,728.4	787.5	206,049.7

Table 2.3.4-2M (Cont.)
Export of Petroleum Products

Unit : Barrels/Day

Month	2011									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	11,483.7	7,791.1	3,692.6	62,085.4	62,085.4		17,712.6	71,864.9	344.9	163,487.5
Feb	9,457.0	8,917.9	539.1	41,107.7	41,107.7		876.0	41,062.7	359.4	92,859.1
Mar	12,173.6	10,043.2	2,130.3	54,476.9	54,476.9		4,565.1	52,062.5	405.7	123,706.2
Apr	13,564.7	11,656.9	1,907.8	74,218.5	74,218.5		26,815.1	78,830.9	461.2	193,902.2
May	29,663.0	15,785.1	13,857.6	82,760.3	82,760.3		21,405.2	70,120.0	405.7	204,347.1
Jun	21,531.7	17,695.0	3,836.7	59,961.8	59,961.8		13,690.5	53,714.0	524.1	159,762.9
Jul	17,590.8	17,043.0	547.8	132,469.2	132,469.2		13,959.0	51,048.0	507.2	227,216.8
Aug	33,964.4	14,851.8	19,132.8	146,428.3	146,428.3		34,349.8	62,349.2	547.8	277,651.8
Sep	14,109.9	12,222.9	1,886.9	128,917.9	128,917.9		30,567.9	74,910.3	587.0	249,088.5
Oct	9,556.2	9,130.2	446.3	65,088.2	65,088.2		3,692.6	45,367.0	649.2	124,375.8
Nov	9,560.3	9,162.0	398.3	52,435.1	52,435.1		26,668.3	51,240.1	649.9	140,576.6
Dec	16,657.5	16,393.8	284.0	68,902.6	68,902.6		52,732.0	66,427.3	669.5	205,381.8
YTD	16,692.7	12,584.5	4,108.1	81,085.4	81,085.4		20,704.3	60,017.5	515.2	180,852.4

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-1M
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

2007													
Month	Crude Oil Balance			Oil Products				Oil Products				Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others		Export
Jan	194,931	711,687	68,971	920,554	949,560	54,471	1,004,031	845,839	124,347	333,689	387,803	154,944	1,000,784
Feb	206,793	971,908	58,123	916,147	946,373	46,651	993,024	848,324	128,685	337,264	382,375	152,172	1,000,497
Mar	221,742	746,884	38,101	857,682	874,389	31,324	905,713	851,146	128,630	348,705	373,810	159,880	1,011,026
Apr	217,385	884,055	55,001	958,967	968,500	68,855	1,037,356	858,922	128,650	329,897	400,374	138,627	997,549
May	212,498	810,872	51,932	941,128	956,417	67,365	1,023,782	832,482	122,682	316,982	392,817	209,940	1,042,422
Jun	215,676	747,270	46,433	938,838	953,566	54,999	1,008,565	862,566	129,596	330,136	402,833	168,317	1,030,884
Jul	217,560	829,993	53,784	928,760	936,496	42,911	979,408	819,612	125,337	304,023	390,251	125,644	945,256
Aug	211,967	956,423	50,078	962,764	961,821	50,814	1,012,636	843,600	129,455	315,561	398,583	170,788	1,014,389
Sep	210,212	743,841	56,400	954,007	993,631	61,029	1,054,660	836,465	124,463	301,192	410,808	177,086	1,013,551
Oct	208,208	749,958	38,915	856,956	915,891	62,289	978,181	853,176	125,869	304,235	423,071	174,405	1,027,582
Nov	224,884	742,288	62,102	845,734	886,211	70,347	956,558	849,665	123,544	321,578	404,542	204,279	1,053,945
Dec	218,860	768,740	45,670	967,593	995,340	38,957	1,034,297	849,531	126,105	326,829	396,596	197,042	1,046,574
YTD	213,408	804,242	52,045	920,759	944,775	54,124	998,899	845,859	126,427	322,406	397,025	169,540	1,015,399

2008													
Month	Crude Oil Balance			Oil Products				Oil Products				Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others		Export
Jan	210,132	837,832	41,458	949,430	958,785	40,663	999,448	835,368	118,406	320,204	396,756	190,866	1,026,234
Feb	213,824	920,720	39,144	948,560	958,358	14,682	973,040	886,329	125,509	330,021	430,798	173,627	1,059,956
Mar	207,733	914,524	37,421	962,942	978,802	49,579	1,028,382	861,365	118,666	333,384	409,314	191,360	1,052,726
Apr	219,233	803,545	51,537	995,949	1,019,014	79,105	1,098,119	857,062	122,395	327,288	407,378	195,838	1,052,901
May	225,729	851,111	40,204	977,898	991,901	10,748	1,002,649	805,117	113,757	304,423	386,936	200,152	1,005,270
Jun	230,719	748,599	47,492	845,395	884,380	26,282	910,662	761,851	113,362	276,287	372,201	179,657	941,508
Jul	214,633	734,870	50,651	928,300	940,871	58,331	999,202	725,917	109,783	244,930	371,204	213,918	939,836
Aug	232,859	820,895	38,817	832,395	906,772	33,249	940,022	724,545	115,624	260,495	348,425	251,426	975,972
Sep	234,811	671,695	48,864	778,630	839,410	51,949	891,359	735,929	115,268	258,935	361,725	173,425	909,354
Oct	236,544	814,902	51,009	915,782	941,634	35,411	977,046	736,378	117,904	274,153	344,321	219,188	955,567
Nov	220,158	544,231	40,136	779,553	829,273	40,512	869,785	695,868	121,330	284,632	289,905	200,435	896,303
Dec	226,238	817,666	48,894	892,854	930,381	13,303	943,684	793,493	138,430	330,128	324,935	268,189	1,061,683
YTD	228,828	811,560	45,863	925,432	957,292	38,980	996,273	805,770	122,368	303,194	380,208	210,711	1,016,482

Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance				Oil Products				Oil Products				Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
Jan	234,661	756,027	62,037	895,691	984,399	39,563	1,023,963	857,231	134,965	348,592	373,674	236,233	1,093,465
Feb	232,534	647,308	40,616	881,320	920,716	43,543	964,260	829,938	132,206	323,309	374,423	167,132	997,071
Mar	253,484	974,758	32,854	998,480	1,056,866	70,949	1,127,815	851,520	134,312	330,120	387,086	166,714	1,018,234
Apr	237,667	838,598	51,339	964,855	1,000,671	18,768	1,019,440	832,787	133,021	332,793	366,972	226,754	1,059,542
May	238,367	805,458	53,355	941,225	1,053,566	52,038	1,105,604	830,307	132,287	336,867	361,153	268,890	1,099,197
Jun	241,694	885,576	22,364	950,366	1,038,430	22,264	1,060,695	803,777	127,447	305,938	370,390	254,104	1,057,881
Jul	236,371	747,927	62,698	953,377	1,047,490	36,883	1,084,373	812,950	127,997	298,668	386,285	255,691	1,068,642
Aug	238,561	757,617	39,767	910,044	1,010,320	38,769	1,049,090	806,076	125,064	293,453	387,558	268,355	1,074,432
Sep	220,506	893,332	24,027	974,246	1,033,304	50,595	1,083,899	807,529	125,824	292,346	389,359	268,412	1,075,942
Oct	220,654	788,596	28,316	931,736	1,015,807	49,096	1,064,903	820,813	126,466	298,720	395,626	279,854	1,100,668
Nov	240,066	846,463	37,463	918,065	1,007,357	56,927	1,064,284	797,693	123,096	309,021	365,576	223,144	1,020,837
Dec	259,817	691,657	36,976	916,799	1,017,966	54,586	1,072,553	888,863	133,183	347,953	407,725	262,832	1,151,696
YTD	237,941	803,361	41,066	936,633	1,016,306	44,587	1,060,894	828,472	129,660	318,195	380,617	240,405	1,068,878

Month	Crude Oil Balance				Oil Products				Oil Products				Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
Jan	232,778	774,312	36,759	939,907	1,002,740	55,665	1,058,406	843,840	122,913	317,638	403,287	150,589	994,429
Feb	235,809	841,022	8,460	918,140	1,031,847	52,453	1,084,301	887,393	132,896	347,322	407,174	179,128	1,066,521
Mar	250,421	735,828	36,224	998,652	1,061,312	99,685	1,160,997	905,934	125,855	342,480	437,599	190,532	1,096,467
Apr	236,293	949,279	26,706	948,970	1,024,213	83,516	1,107,730	897,376	127,354	324,615	445,406	235,332	1,132,708
May	246,115	739,887	32,170	965,724	1,062,877	105,280	1,168,158	879,835	121,562	322,255	436,017	221,220	1,101,056
Jun	256,836	873,449	25,147	958,221	1,068,702	105,349	1,174,051	884,908	129,366	316,320	439,221	283,610	1,168,519
Jul	254,954	781,768	45,881	981,832	1,042,103	73,531	1,115,635	861,075	129,168	307,706	424,200	272,335	1,133,410
Aug	250,650	823,637	31,657	972,644	1,068,558	89,296	1,157,855	861,612	125,598	290,396	445,617	287,990	1,149,603
Sep	248,127	793,463	44,994	953,373	1,087,837	93,904	1,181,741	871,394	127,350	294,350	449,694	316,458	1,187,853
Oct	235,510	742,814	15,785	965,962	1,053,512	104,440	1,157,953	861,014	124,929	291,167	444,917	268,732	1,129,746
Nov	232,263	852,270	29,143	973,322	1,022,197	62,331	1,084,528	904,928	132,505	331,795	440,628	266,461	1,171,390
Dec	221,479	895,650	24,671	959,768	1,111,017	81,232	1,192,250	910,801	134,836	337,924	438,040	221,857	1,132,658
YTD	241,801	816,201	29,956	961,763	1,053,276	84,122	1,137,399	880,692	127,806	318,449	434,436	241,321	1,122,014

Oil

Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance			Oil Products					Oil Products				Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
Jan	227,976	770,288	29,956	1,014,086	1,137,096	81,188	1,218,285	934,558	128,166	329,406	476,986	196,495	1,131,053
Feb	229,200	720,501	33,692	783,901	916,738	122,772	1,039,511	963,082	133,913	335,193	493,974	113,350	1,076,432
Mar	235,448	786,565	35,654	942,864	1,052,808	90,241	1,143,049	964,948	124,831	345,848	494,268	159,234	1,124,182
Apr	226,348	869,566	52,102	973,991	1,114,869	72,054	1,186,924	965,043	129,526	347,633	487,883	219,419	1,184,462
May	233,177	897,280	27,069	979,896	1,153,353	103,324	1,256,678	933,531	124,036	342,154	467,341	246,110	1,179,642
Jun	225,227	760,513	34,934	972,684	1,167,392	87,742	1,255,134	944,759	130,579	336,813	477,366	195,130	1,139,889
Jul	213,441	822,328	9,284	994,932	1,156,143	98,441	1,254,584	914,769	124,309	308,512	481,948	266,831	1,181,601
Aug	222,493	913,966	44,155	981,737	1,160,534	96,739	1,257,274	920,489	128,510	311,698	480,281	324,332	1,244,821
Sep	221,612	760,657	31,172	911,811	1,106,283	103,946	1,210,229	917,537	126,104	314,544	476,889	297,605	1,215,143
Oct	209,542	718,407	40,981	858,489	1,003,793	102,042	1,105,836	867,936	116,708	304,306	446,921	186,003	1,053,940
Nov	224,322	767,471	33,792	794,840	1,066,306	105,597	1,171,904	884,601	116,443	329,800	418,356	186,552	1,051,153
Dec	221,267	735,433	27,696	1,004,045	1,186,793	80,294	1,267,087	954,757	133,486	363,355	457,916	265,173	1,219,931
YTD	224,127	794,226	33,321	935,908	1,103,234	95,173	1,198,407	928,617	126,330	330,720	471,566	222,204	1,150,821

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2M
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2007												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	398	342	338	355	377	380	369	388	383	382	367	391	4,469
- Production	398	342	338	355	377	380	369	388	383	382	367	391	4,469
GSP	227	177	200	191	225	237	227	239	232	237	235	239	2,667
Refinery	152	147	118	146	133	123	122	129	129	122	111	134	1,567
Others	18	18	19	18	20	20	19	21	22	22	21	18	236
- Import													
Total Demand	370	347	335	343	371	360	379	377	362	390	384	376	4,393
- Consumption	334	293	308	314	339	340	361	361	351	374	373	365	4,116
Cooking	156	143	153	143	153	151	157	168	156	166	172	167	1,884
Industry	48	45	51	44	51	50	50	53	53	56	56	55	611
Automobile	45	43	48	46	47	47	49	49	48	49	48	52	572
Feedstock*	67	57	40	61	68	67	83	68	69	76	73	68	798
Own Use	18	5	16	20	21	24	24	23	26	27	23	23	251
- Feedstock	14	2	13	14	16	15	17	15	15	18	16	16	170
- Energy	4	2	3	6	5	9	7	9	11	10	8	7	81
- Export	36	54	27	29	32	20	16	16	10	16	12	10	278
Balance (Supply-Demand)	28	-4	3	12	6	21	-11	12	21	-8	-17	15	76

Description	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	376	372	389	390	409	378	493	448	426	469	350	307	4,807
- Production	376	372	389	368	409	378	383	380	357	379	257	307	4,355
GSP	216	219	224	217	246	243	233	241	230	238	155	203	2,684
Refinery	160	153	165	151	163	135	150	139	127	141	101	103	1,688
Others								1	1	1	0	1	3
- Import				21			110	68	69	90	93		452
Total Demand	393	367	382	373	422	404	441	462	443	450	334	339	4,810
- Consumption	384	361	382	373	420	404	441	462	443	450	331	338	4,788
Cooking	171	161	170	166	178	173	188	186	182	187	178	184	2,124
Industry	59	58	60	52	58	55	58	57	58	58	51	41	665
Automobile	52	50	57	55	60	66	81	79	73	75	67	60	776
Feedstock*	66	59	61	68	82	70	68	91	80	73	9	32	759
Own Use	36	32	34	32	43	40	46	49	49	57	26	22	466
- Feedstock	23	22	25	21	30	33	38	41	40	42	15	6	335
- Energy	13	10	9	11	13	7	8	8	9	15	11	15	130
- Export	9	6	0	0	1	0	0	0	0	0	3	1	21
Balance (Supply-Demand)	-17	5	7	17	-13	-26	52	-14	-17	19	16	-32	-2

Oil

Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

2009													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	394	342	416	386	455	422	466	468	454	473	468	476	5,221
- Production	374	342	393	371	388	379	399	377	364	361	356	363	4,467
GSP	224	217	230	220	238	233	235	224	218	235	219	221	2,695
Refinery	148	125	163	152	150	146	163	153	147	144	138	141	1,770
Others	2											1	2
- Import	20		23	14	67	44	68	91	90	112	112	114	753
Total Demand	383	341	426	409	431	432	472	467	453	467	455	486	5,223
- Consumption	382	340	425	408	429	430	471	466	452	466	454	485	5,208
Cooking	185	164	180	172	179	181	192	193	191	198	191	205	2,231
Industry	40	38	43	38	45	51	53	54	55	58	59	59	593
Automobile	56	54	58	55	56	55	55	56	54	56	55	58	666
Feedstock*	68	60	83	80	91	86	105	92	92	92	95	110	1,056
Own Use	32	24	62	63	58	57	67	70	60	62	54	53	662
- Feedstock	12	15	40	41	37	39	43	43	42	43	34	33	422
- Energy	20	9	22	23	21	18	24	27	18	19	20	19	240
- Export	1	1	1	1	2	2	1	1	1	2	1	2	15
Balance (Supply-Demand)	11	1	-10	-24	24	-9	-6	1	1	6	13	-10	-2

2010													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	481	427	499	477	506	455	480	519	511	540	520	592	6,008
- Production	371	315	373	352	329	325	389	382	376	391	377	435	4,416
GSP	222	176	214	199	183	195	236	239	233	250	234	295	2,676
Refinery	147	138	156	151	144	130	153	143	143	141	143	140	1,730
Others	2	2	2	2	2	1						0	10
- Import	110	112	126	125	177	130	91	136	136	149	143	157	1,591
Total Demand	478	438	484	477	482	490	479	525	514	530	514	557	5,968
- Consumption	476	436	482	475	480	488	477	522	512	527	513	556	5,943
Cooking	199	187	204	192	195	199	210	209	203	208	209	219	2,435
Industry	62	59	67	58	66	64	66	69	68	68	68	65	778
Automobile	55	52	55	54	54	54	58	58	55	58	61	67	680
Feedstock*	90	72	88	107	132	132	104	150	148	154	139	166	1,482
Own Use	70	65	68	63	33	39	39	37	36	39	37	40	567
- Feedstock	48	45	48	44	16	20	24	20	20	22	24	24	354
- Energy	22	21	20	19	17	19	16	17	16	16	13	16	213
- Export	2	2	2	2	2	2	2	3	2	3	1	1	25
Balance (Supply-Demand)	3	-11	15	0	25	-35	2	-6	-3	10	6	35	40

Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

2011													
Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Supply	564	508	562	550	604	588	594	615	575	582	521	596	6,859
- Production	450	395	471	476	489	417	447	456	466	441	432	483	5,422
GSP	287	252	300	298	308	250	262	279	312	287	288	305	3,428
Refinery	163	143	171	178	181	167	185	177	154	154	143	177	1,994
Others													
- Import	114	114	90	74	115	171	147	159	109	140	89	113	1,437
Total Demand	578	506	596	571	586	577	597	619	584	572	538	584	6,906
- Consumption	577	505	594	570	585	576	596	617	583	570	536	582	6,890
Cooking	219	199	221	214	217	217	226	238	228	224	210	245	2,656
Industry	65	62	72	60	68	67	61	58	57	51	46	51	718
Automobile	67	62	69	70	77	78	88	91	86	76	68	88	920
Feedstock*	188	159	194	195	192	184	189	197	176	159	142	137	2,113
Own Use	38	22	39	31	31	30	33	33	35	60	70	61	483
- Feedstock	26	14	24	17	16	19	21	21	26	53	65	51	353
- Energy	13	8	15	13	14	11	12	12	9	8	5	10	131
- Export	1	1	1	1	1	1	1	1	2	2	2	2	16
Balance (Supply-Demand)	-13	3	-34	-21	19	11	-3	-4	-9	10	-17	13	-47

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

* Including own used as Feedstock of IRPC and PTTGC



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 3 NATURAL GAS

บทที่ 3 ก๊าซธรรมชาติ

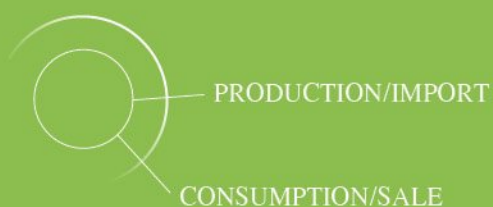


Table 3.1-1M
Production and Import of Natural Gas

Unit : MMSCFD

2007																				
Month	Domestic Production										Import				Grand Total					
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.		Total	Yadana	Yetakun	LNG	Total Import
Jan	43	154	29	279	420	81	20	71	288	632		36		317	2,370	426	398		823	3,193
Feb	43	134	29	279	448	72	23	89	263	640		67		313	2,401	455	419		875	3,275
Mar	40	158	28	281	465	103	22	89	290	636		64		336	2,511	500	452		952	3,462
Apr	43	177	28	283	475	93	16	120	293	536		58		365	2,486	448	405		853	3,340
May	44	179	27	282	463	109	9	118	322	650		78		353	2,633	496	450		946	3,579
Jun	49	180	26	278	449	104	11	111	342	648		70		357	2,627	497	457		954	3,581
Jul	51	186	25	280	466	115	14	106	309	644		69		337	2,601	461	429		890	3,492
Aug	46	179	25	263	493	129	13	88	332	653		50		343	2,615	470	425		895	3,510
Sep	49	175	26	280	422	129	9	71	332	645		56		310	2,504	503	460		963	3,467
Oct	47	177	26	275	466	134	8	75	330	657		52		265	2,511	501	459		960	3,472
Nov	47	179	21	275	456	117	8	83	322	606		91		250	2,454	489	449		939	3,393
Dec	45	179	24	278	462	110	5	100	286	599		86		280	2,455	429	389		818	3,273
YTD	46	172	26	278	457	108	13	93	309	629		65		319	2,515	473	433		906	3,421
2008																				
Month	Domestic Production										Import				Grand Total					
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhoim	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.		Total	Yadana	Yetakun	LNG	Total Import
Jan	44	175	23	277	441	125	1	72	317	626		107	24	313	2,546	403	378		781	3,328
Feb	40	171	23	284	439	111		70	332	641		95	13	325	2,544	485	442		927	3,471
Mar	43	148	26	287	425	109	7	95	338	662	13	83	52	321	2,611	511	461		972	3,582
Apr	43	145	25	277	482	97	16	103	311	662	211	78	49	325	2,823	427	263		691	3,513
May	42	153	24	275	440	100	23	94	287	648	425	83	94	313	3,001	428	400		828	3,829
Jun	42	150	24	257	465	101	11	78	295	659	421	97	110	280	2,992	423	405		828	3,820
Jul	42	140	23	357	446	94	10	83	290	630	377	136	82	233	2,944	446	422		867	3,811
Aug	42	145	23	278	457	89	10	98	297	650	409	132	100	240	2,969	459	427		886	3,855
Sep	38	115	23	258	450	82	15	98	286	538	463	138	102	252	2,856	474	439		913	3,769
Oct	39	145	23	256	444	97	13	85	268	653	447		100	267	2,835	442	413		855	3,690
Nov	38	145	22	246	371	58	15	79	202	469	217	121	335	230	2,550	379	359		738	3,288
Dec	37	133	21	243	319	152	43	66	209	404	343	128	443	117	2,658	330	316		647	3,305
YTD	41	147	23	275	431	101	14	85	286	604	278	100	126	268	2,778	434	394		828	3,606

Natural Gas

Table 3.1-1M (Cont.)
Production and Import of Natural Gas

Unit : MMSCFD

2009																			
Month	Domestic Production										Import				Grand Total				
	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuholm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total		Yadana	Yetakun	LNG	Total Import
Jan	37	148	16	243	371	152	43	44	209	505	373	126	422	191	2,881	166	157	323	3,204
Feb	37	140	16	253	409	66	10	43	183	417	374	143	417	247	2,754	375	377	752	3,506
Mar	28	145	16	278	418	75	12	44	237	526	415	138	443	265	3,038	331	336	667	3,705
Apr	27	67	24	221	419	61	7	94	136	532	353	127	412	321	2,801	398	400	798	3,598
May	64	65	23	235	449	53	6	97	156	648	408	127	455	360	3,146	462	440	902	4,048
Jun	65	68	23	229	458	44	6	96	175	493	431	106	451	379	3,022	477	451	928	3,950
Jul	64	60	23	227	425	44	3	92	144	590	390	92	426	318	2,898	445	416	861	3,759
Aug	63	69	23	247	451	55	7	92	207	570	416	80	313	343	2,935	484	460	944	3,879
Sep	65	72	19	249	436	61	6	100	141	637	340	77	495	344	3,041	471	462	933	3,974
Oct	63	51	18	260	423	57	15	102	244	435	475	71	466	337	3,017	505	469	974	3,991
Nov	64	68	17	244	372	47	50	78	162	552	507	120	482	336	3,097	479	464	943	4,040
Dec	65	83	20	249	376	57	120	84	124	569	524	117	510	335	3,232	317	305	622	3,854
YTD	54	86	20	244	417	64	24	81	177	540	418	110	441	315	2,990	409	394	803	3,794
2010																			
Month	Domestic Production										Import				Grand Total				
	Sirikit	Benjamas Namphong	Erawan	Pailin	Satun	Gomin	Phuholm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total		Yadana	Yetakun	LNG	Total Import
Jan	64	85	13	248	438	52	151	81	146	604	458	103	449	301	3,197	390	374	764	3,961
Feb	63	87	17	240	464	58	102	72	133	528	545	119	538	303	3,268	512	466	978	4,246
Mar	63	89	20	248	467	80	129	104	166	629	579	120	630	322	3,645	353	322	675	4,320
Apr	65	88	19	244	399	56	97	87	173	573	448	120	704	309	3,383	467	436	903	4,286
May	62	81	20	253	399	87	72	100	181	540	501	110	691	364	3,462	476	457	933	4,395
Jun	64	94	17	261	394	89	89	79	224	621	522	107	711	407	3,681	429	440	869	4,551
Jul	63	83	17	251	433	90	81	82	223	623	450	94	551	398	3,441	459	443	902	4,343
Aug	62	70	20	275	448	76	75	79	247	639	419	89	668	398	3,563	429	420	849	4,412
Sep	62	65	20	275	454	84	61	77	247	539	516	86	719	405	3,610	474	447	921	4,531
Oct	57	61	18	259	449	67	58	83	242	623	524	67	757	412	3,678	424	423	847	4,524
Nov	65	54	18	256	399	126	52	99	208	600	531	70	675	453	3,607	395	394	790	4,397
Dec	65	58	17	259	414	111	58	97	195	627	523	53	687	414	3,578	411	411	822	4,400
YTD	63	76	18	256	430	82	85	87	199	596	501	95	649	374	3,511	434	419	853	4,364

Table 3.1-1M (Cont.)
Production and Import of Natural Gas

Unit : MMSCFD

2011																				
Month	Domestic Production												Import					Grand Total		
	Sirikit	Benjamas	Namphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Oths.	Total	Yadana	Yetakun		LNG	Total Import
Jan	71	88	18	240	463	109	67	87	194	585	525	60	722	464	3,694	312	309		622	4,316
Feb	56	75	17	242	483	91	88	89	198	634	523	62	749	498	3,805	394	397		791	4,596
Mar	63	87	18	242	460	136	104	92	182	646	523	59	807	474	3,892	426	411		838	4,730
Apr	33	97	14	248	477	130	105	101	172	637	417	73	752	423	3,678	448	419		867	4,545
May	39	48	19	251	421	124	106	108	169	650	480	88	818	472	3,794	499	452	94	1,045	4,839
Jun	40	90	18	234	359	74	93	110	158	635	461	65	786	440	3,564	507	445	242	1,194	4,758
Jul	38	101	18	147	380	85	89	97	102	617	379	34	788	357	3,232	506	459	212	1,177	4,409
Aug	37	84	16	261	398	113	94	100	208	544	339	36	781	394	3,406	486	445	297	1,229	4,635
Sep	35	88	13	253	383	111	103	61	212	651	344	41	807	409	3,512	505	458	119	1,083	4,595
Oct	34	85	13	253	384	110	97	53	207	598	337	38	685	395	3,289	372	362	97	830	4,119
Nov	38	97	12	245	344	128	93	51	171	490	302	56	712	712	3,451	358	374	104	836	4,287
Dec	38	89	12	251	379	121	102	54	175	584	259	62	747	802	3,675	304	316		620	4,295
YTD	43	86	16	239	411	111	95	84	179	606	407	56	763	487	3,581	426	404	98	928	4,509

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF) and PTT

Compiled by : Energy Policy and Planning office (EPPO)

Table 3.2-1M
Distribution of NGL

Month	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	10	1	54	65	62,897	6,495	339,546	408,938	2,028	209	10,953	13,191
Feb	12	5	36	54	77,802	31,436	227,700	336,939	2,778	1,122	8,132	12,033
Mar	20	0	42	62	124,892	455	266,694	392,041	4,028	14	8,603	12,646
Apr	5		52	57	29,568		328,876	358,445	985		10,962	11,948
May	12		54	66	76,448		340,164	416,613	2,466		10,973	13,439
Jun	25		49	74	157,211		306,533	463,744	5,240		10,217	15,458
Jul	17		54	72	109,499		341,588	451,088	3,532		11,018	14,551
Aug	5		61	66	29,565		385,952	415,517	953		12,450	13,403
Sep	7		64	71	45,325		400,454	445,780	1,510		13,348	14,859
Oct	5		61	65	30,184		380,760	410,945	973		12,282	13,256
Nov	5		56	61	30,226		354,850	385,076	1,007		11,828	12,835
Dec	10		66	76	60,788		416,889	477,678	1,960		13,448	15,408
YTD	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105	11,205	13,596

Month	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	5		54	59	29,850		341,508	371,358	962		11,016	11,979
Feb	20		56	75	124,656		349,500	474,156	4,452		12,482	16,934
Mar	7		60	67	45,304		374,758	420,063	1,461		12,088	13,550
Apr	10		56	66	61,682		354,709	416,392	2,056		11,823	13,879
May	10		66	76	62,938		417,429	480,367	2,030		13,465	15,495
Jun	20		59	79	127,482		372,512	499,995	4,249		12,417	16,666
Jul	10		64	74	62,575		402,301	464,876	2,018		12,977	14,996
Aug	5		62	67	30,273		391,454	421,728	976		12,627	13,604
Sep	5		63	67	30,266		393,169	423,436	1,008		13,105	14,114
Oct	26		46	71	160,682		286,618	447,300	5,183		9,245	14,429
Nov	15		36	51	95,190		228,183	323,374	3,173		7,606	10,779
Dec	10		50	60	63,175		314,234	377,409	2,037		10,136	12,174
YTD	142		672	814	894,079		4,226,379	5,120,458	2,442		11,547	13,990

Table 3.2-1M (Cont.)
Distribution of NGL

Month	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	5		60	65	30,224		376,547	406,772	974		12,146	13,121
Feb	5		54	59	30,242		340,727	370,969	1,080		12,168	13,248
Mar	5		58	63	30,233		366,473	396,707	975		11,821	12,797
Apr	15		45	60	94,323		283,584	377,907	3,144		9,452	12,596
May	15		59	74	95,478		372,001	467,479	3,079		12,000	15,080
Jun	15		56	71	95,100		354,295	449,396	3,170		11,809	14,979
Jul	10		48	58	62,952		301,068	364,020	2,030		9,711	11,742
Aug	10		60	70	62,721		377,461	440,183	2,023		12,176	14,199
Sep	5		60	65	30,216		380,330	410,546	1,007		12,677	13,684
Oct	5		55	60	29,878		346,788	376,666	963		11,186	12,150
Nov	20		59	79	125,620		372,240	497,861	4,187		12,408	16,595
Dec	5		61	66	30,215		382,168	412,384	974		12,328	13,302
YTD	114		676	790	717,208		4,253,688	4,970,897	1,964		11,653	13,618

Month	(Million Litres)				(Barrel)				(Barrel/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	10		62	72	63,211		388,408	451,619	2,039		12,529	14,568
Feb	10		41	51	59,808		258,489	318,298	2,136		9,231	11,367
Mar	15		53	68	94,470		334,877	429,348	3,047		10,802	13,849
Apr	7		54	62	45,427		341,766	387,193	1,514		11,392	12,906
May	7		52	59	43,469		328,821	372,291	1,402		10,607	12,009
Jun	12		43	55	75,715		272,854	348,569	2,523		9,095	11,618
Jul	14		62	77	90,857		391,250	482,108	2,930		12,620	15,551
Aug	5		66	71	30,223		416,119	446,343	974		13,423	14,398
Sep	7		60	67	45,340		374,937	420,278	1,511		12,497	14,009
Oct	7		69	75	41,600		432,521	474,122	1,341		13,952	15,294
Nov	22		51	72	136,843		319,031	455,875	4,561		10,634	15,195
Dec	19		62	81	120,904		389,278	510,183	3,900		12,557	16,457
YTD	135		675	810	847,872		4,248,358	5,096,231	2,322		11,639	13,962

Natural Gas

Table 3.2-1M (Cont.)
Distribution of NGL

2011												
Month	(Million Litres)				(Barrel)				(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	14		71	85	90,801		445,082	535,884	2,929		14,357	17,286
Feb	7		62	69	45,055		389,470	434,526	1,609		13,909	15,518
Mar	10		74	83	61,904		463,242	525,146	1,996		14,943	16,940
Apr	7		77	83	42,476		482,451	524,928	1,415		16,081	17,497
May	7		78	85	43,885		490,275	534,161	1,415		15,815	17,231
Jun	17		58	75	106,660		362,491	469,151	3,555		12,083	15,638
Jul	20		53	73	126,183		336,060	462,243	4,070		10,840	14,911
Aug	28		62	89	173,596		387,039	560,635	5,599		12,485	18,085
Sep	18		64	82	110,211		404,429	514,640	3,673		13,480	17,154
Oct	28		61	89	175,663		384,932	560,595	5,666		12,417	18,083
Nov	19		53	72	122,214		331,588	453,802	4,073		11,052	15,126
Dec	28		65	93	177,229		407,598	584,827	5,717		13,148	18,865
YTD	203		777	979	1,275,883		4,884,661	6,160,545	3,495		13,382	16,878

Source : PTT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2M
Consumption of Natural Gas by Sector

Unit : MMSCFD

Month	2007					Industry	GSP	NGV	Grand Total
	Electricity		SPP		Total				
	EGAT	IPP							
Jan	888	787	430		2,105	362	596	14	3,077
Feb	969	822	443		2,235	354	485	16	3,090
Mar	1,232	818	450		2,501	327	492	18	3,338
Apr	1,137	756	423		2,316	334	490	19	3,160
May	1,179	818	448		2,445	348	580	19	3,393
Jun	1,188	862	472		2,522	333	535	21	3,412
Jul	1,069	895	450		2,413	325	558	22	3,318
Aug	1,102	863	441		2,407	358	630	25	3,420
Sep	1,064	880	450		2,394	338	609	27	3,367
Oct	982	917	451		2,349	371	628	30	3,377
Nov	933	912	450		2,295	367	620	34	3,316
Dec	897	835	428		2,159	350	627	36	3,173
YTD	1,054	847	445		2,346	347	572	24	3,288

Month	2008					Industry	GSP	NGV	Grand Total
	Electricity		SPP		Total				
	EGAT	IPP							
Jan	905	878	446		2,229	365	585	41	3,220
Feb	917	967	452		2,335	377	619	47	3,378
Mar	914	1,068	453		2,435	370	594	52	3,450
Apr	1,044	839	432		2,316	376	587	57	3,336
May	1,069	1,079	444		2,592	374	630	63	3,659
Jun	1,068	1,085	437		2,591	357	647	72	3,667
Jul	1,088	1,084	452		2,625	392	593	83	3,693
Aug	1,118	1,052	450		2,620	366	602	91	3,680
Sep	1,019	1,035	456		2,510	383	611	98	3,602
Oct	1,055	1,013	449		2,516	340	593	107	3,556
Nov	995	874	421		2,289	317	400	108	3,115
Dec	978	638	398		2,014	315	531	108	2,968
YTD	1,014	968	441		2,423	361	583	77	3,444

Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector

Unit : MMSCFD

2009							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	913	529	412	341	568	117	2,881
Feb	1,050	856	419	357	599	133	3,413
Mar	1,197	850	426	374	593	138	3,578
Apr	1,149	810	404	363	597	126	3,451
May	1,193	883	435	373	618	133	3,635
Jun	1,092	1,027	447	403	625	142	3,735
Jul	1,054	992	415	372	622	143	3,597
Aug	1,056	1,036	438	376	587	150	3,643
Sep	1,100	1,073	444	420	605	151	3,793
Oct	1,109	1,053	438	434	574	154	3,761
Nov	1,163	949	442	432	607	159	3,752
Dec	1,137	804	428	397	592	167	3,526
YTD	1,101	905	429	387	599	143	3,564

2010							
Month	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	1,043	919	434	428	597	154	3,576
Feb	1,196	1,087	435	473	520	171	3,884
Mar	1,491	761	434	499	573	176	3,933
Apr	1,264	1,027	444	450	563	165	3,913
May	1,377	1,070	445	464	552	167	4,074
Jun	1,459	1,053	434	488	552	181	4,166
Jul	1,356	996	416	472	673	179	4,091
Aug	1,374	902	437	492	745	181	4,131
Sep	1,403	955	454	506	749	190	4,256
Oct	1,419	893	464	472	837	193	4,278
Nov	1,427	826	445	491	682	204	4,075
Dec	1,331	847	434	498	767	210	4,086
YTD	1,346	943	440	478	652	181	4,039

Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector

Unit : MMSCFD

Month	2011						
	Electricity			Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP				
Jan	1,176	697	466	485	859	207	3,890
Feb	1,341	752	471	501	840	230	4,135
Mar	1,202	893	486	576	972	231	4,360
Apr	1,089	911	468	562	932	215	4,178
May	1,239	980	478	570	897	238	4,401
Jun	1,171	1,013	496	605	812	246	4,342
Jul	1,087	955	472	591	756	242	4,103
Aug	1,154	1,004	475	601	784	248	4,265
Sep	1,113	888	477	627	975	248	4,327
Oct	1,013	782	437	581	803	222	3,838
Nov	1,100	793	421	563	871	197	3,945
Dec	1,099	715	402	568	907	243	3,934
YTD	1,148	866	462	569	867	231	4,143

Remark : Heat value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3M
Consumption Share of Natural Gas by Sector

2007									
Month	MMSCFD					Share (%)			
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,105	362	596	14	3,077	68.4	11.8	19.4	100.0
Feb	2,235	354	485	16	3,090	72.3	11.5	15.7	100.0
Mar	2,501	327	492	18	3,338	74.9	9.8	14.7	100.0
Apr	2,316	334	490	19	3,160	73.3	10.6	15.5	100.0
May	2,445	348	580	19	3,393	72.1	10.3	17.1	100.0
Jun	2,522	333	535	21	3,412	73.9	9.8	15.7	100.0
Jul	2,413	325	558	22	3,318	72.7	9.8	16.8	100.0
Aug	2,407	358	630	25	3,420	70.4	10.5	18.4	100.0
Sep	2,394	338	609	27	3,367	71.1	10.0	18.1	100.0
Oct	2,349	371	628	30	3,377	69.6	11.0	18.6	100.0
Nov	2,295	367	620	34	3,316	69.2	11.1	18.7	100.0
Dec	2,159	350	627	36	3,173	68.1	11.0	19.7	100.0
YTD	2,346	347	572	24	3,288	71.3	10.6	17.4	100.0

2008									
Month	MMSCFD					Share (%)			
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,229	365	585	41	3,220	69.2	11.3	18.2	100.0
Feb	2,335	377	619	47	3,378	69.1	11.2	18.3	100.0
Mar	2,435	370	594	52	3,450	70.6	10.7	17.2	100.0
Apr	2,316	376	587	57	3,336	69.4	11.3	17.6	100.0
May	2,592	374	630	63	3,659	70.8	10.2	17.2	100.0
Jun	2,591	357	647	72	3,667	70.7	9.7	17.6	100.0
Jul	2,625	392	593	83	3,693	71.1	10.6	16.1	100.0
Aug	2,620	366	602	91	3,680	71.2	9.9	16.4	100.0
Sep	2,510	383	611	98	3,602	69.7	10.6	17.0	100.0
Oct	2,516	340	593	107	3,556	70.8	9.6	16.7	100.0
Nov	2,289	317	400	108	3,115	73.5	10.2	12.9	100.0
Dec	2,014	315	531	108	2,968	67.8	10.6	17.9	100.0
YTD	2,423	361	583	77	3,444	70.4	10.5	16.9	100.0

Table 3.2-3M (Cont.)
Consumption Share of Natural Gas by Sector

Month	2009					Share (%)				
	MMSCFD									
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	1,854	341	568	117	2,881	64.4	11.9	19.7	4.1	100.0
Feb	2,325	357	599	133	3,413	68.1	10.5	17.5	3.9	100.0
Mar	2,473	374	593	138	3,578	69.1	10.5	16.6	3.8	100.0
Apr	2,364	363	597	126	3,451	68.5	10.5	17.3	3.6	100.0
May	2,511	373	618	133	3,635	69.1	10.3	17.0	3.7	100.0
Jun	2,565	403	625	142	3,735	68.7	10.8	16.7	3.8	100.0
Jul	2,461	372	622	143	3,597	68.4	10.4	17.3	4.0	100.0
Aug	2,531	376	587	150	3,643	69.5	10.3	16.1	4.1	100.0
Sep	2,617	420	605	151	3,793	69.0	11.1	16.0	4.0	100.0
Oct	2,599	434	574	154	3,761	69.1	11.5	15.3	4.1	100.0
Nov	2,554	432	607	159	3,752	68.1	11.5	16.2	4.2	100.0
Dec	2,369	397	592	167	3,526	67.2	11.2	16.8	4.8	100.0
YTD	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0

Month	2010					Share (%)				
	MMSCFD									
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	2,397	428	597	154	3,576	67.0	12.0	16.7	4.3	100.0
Feb	2,719	473	520	171	3,884	70.0	12.2	13.4	4.4	100.0
Mar	2,686	499	573	176	3,933	68.3	12.7	14.6	4.5	100.0
Apr	2,735	450	563	165	3,913	69.9	11.5	14.4	4.2	100.0
May	2,891	464	552	167	4,074	71.0	11.4	13.5	4.1	100.0
Jun	2,946	488	552	181	4,166	70.7	11.7	13.2	4.3	100.0
Jul	2,767	472	673	179	4,091	67.6	11.5	16.4	4.4	100.0
Aug	2,713	492	745	181	4,131	65.7	11.9	18.0	4.4	100.0
Sep	2,811	506	749	190	4,256	66.1	11.9	17.6	4.5	100.0
Oct	2,777	472	837	193	4,278	64.9	11.0	19.6	4.5	100.0
Nov	2,697	491	682	204	4,075	66.2	12.1	16.7	5.0	100.0
Dec	2,612	498	767	210	4,086	63.9	12.2	18.8	5.1	100.0
YTD	2,728	478	652	181	4,039	67.6	11.8	16.1	4.5	100.0

Table 3.2-3M (Cont.)
Consumption Share of Natural Gas by Sector

2011										
Month	MMSCFD				Share (%)					
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	2,338	485	859	207	3,890	60.1	12.5	22.1	5.3	100.0
Feb	2,564	501	840	230	4,135	62.0	12.1	20.3	5.6	100.0
Mar	2,581	576	972	231	4,360	59.2	13.2	22.3	5.3	100.0
Apr	2,469	562	932	215	4,178	59.1	13.4	22.3	5.2	100.0
May	2,697	570	897	238	4,401	61.3	12.9	20.4	5.4	100.0
Jun	2,680	605	812	246	4,342	61.7	13.9	18.7	5.7	100.0
Jul	2,514	591	756	242	4,103	61.3	14.4	18.4	5.9	100.0
Aug	2,633	601	784	248	4,265	61.7	14.1	18.4	5.8	100.0
Sep	2,478	627	975	248	4,327	57.3	14.5	22.5	5.7	100.0
Oct	2,232	581	803	222	3,838	58.2	15.2	20.9	5.8	100.0
Nov	2,314	563	871	197	3,945	58.7	14.3	22.1	5.0	100.0
Dec	2,216	568	907	243	3,934	56.3	14.4	23.0	6.2	100.0
YTD	2,476	569	867	231	4,143	59.8	13.7	20.9	5.6	100.0

Remark: Heat Value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 4 LIGNITE/COAL

บทที่ 4
ลิกไนต์/ถ่านหิน

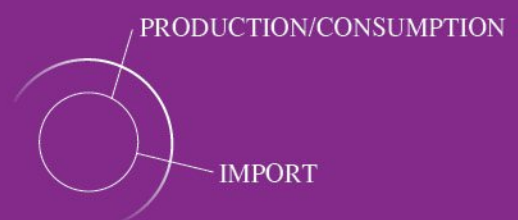


Table 4.1-1M
Production and Consumption of Lignite

Unit : Ton

Month	2007						2008					
	EGAT			Total EGAT			EGAT			Total EGAT		
	Mae-Moh		Krabi	Others		Nationwide	Mae-Moh		Krabi	Others		Nationwide
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
Jan	1,333,519	1,314,931	6,000		1,339,519	1,314,931	1,261,965	1,317,911		154,955	155,859	1,416,920
Feb	1,221,321	1,209,466	10,000		1,231,321	1,209,466	1,322,581	1,291,476		89,760	200,731	1,412,341
Mar	1,294,427	1,323,731	11,112		1,305,539	1,323,731	1,306,825	1,354,518	5,000	145,186	238,846	1,452,011
Apr	1,362,232	1,084,906			1,362,232	1,084,906	1,454,233	1,414,483		188,095	183,093	1,642,328
May	1,290,552	1,265,741			1,290,552	1,265,741	1,489,003	1,491,436	5,000	163,792	188,339	1,657,795
Jun	1,259,365	1,281,557			1,259,365	1,281,557	1,461,387	1,372,230	8,000	251,406	230,523	1,712,793
Jul	1,569,910	1,491,570			1,569,910	1,491,570	1,229,168	1,262,475	2,000	116,533	191,082	1,345,701
Aug	1,416,810	1,493,135			1,416,810	1,493,135	1,328,593	1,334,370	3,248	183,916	185,890	1,512,510
Sep	1,400,167	1,381,626			1,400,167	1,381,626	1,382,595	1,386,029		127,742	200,477	1,510,337
Oct	1,247,035	1,293,124			1,247,035	1,293,124	1,328,904	1,337,526		106,675	180,396	1,435,579
Nov	1,407,742	1,328,185			1,407,742	1,328,185	1,344,442	1,366,674		83,357	113,379	1,427,799
Dec	1,314,729	1,343,078			1,314,729	1,343,078	1,529,399	1,478,337		39,872	55,472	1,569,271
YTD	16,117,809	15,811,050	27,112		16,144,921	15,811,050	16,444,095	16,407,465	23,248	1,651,290	2,124,087	18,095,385

Table 4.1-1M (Cont.)
Production and Consumption of Lignite

Unit : Ton

2009										
Month	EGAT				Total EGAT				Others	
	Mae-Moh		Krabi		Production	Consumption	Production	Consumption	Production	Consumption
	Production	Consumption	Production	Consumption						
Jan	1,468,620	1,461,488			1,468,620	1,461,488	93,065	111,470	1,561,685	1,572,958
Feb	1,174,194	1,144,939			1,174,194	1,144,939	138,458	157,131	1,312,652	1,302,070
Mar	1,254,630	1,255,136			1,254,630	1,255,136	211,163	247,544	1,465,793	1,502,680
Apr	1,227,083	1,313,460			1,227,083	1,313,460	217,794	234,662	1,444,877	1,548,122
May	1,413,339	1,370,259			1,413,339	1,370,259	154,931	183,435	1,568,270	1,553,694
Jun	1,435,227	1,463,154			1,435,227	1,463,154	177,569	194,639	1,612,796	1,657,793
Jul	1,469,759	1,451,536			1,469,759	1,451,536	178,411	165,359	1,648,170	1,616,895
Aug	1,279,005	1,304,125			1,279,005	1,304,125	217,282	179,357	1,496,287	1,483,482
Sep	1,254,357	1,243,891			1,254,357	1,243,891	125,811	134,061	1,380,168	1,377,952
Oct	1,143,009	1,287,741			1,143,009	1,287,741	109,720	41,449	1,252,729	1,329,190
Nov	1,237,910	1,227,355			1,237,910	1,227,355	115,830	193,949	1,353,740	1,421,304
Dec	1,274,633	1,295,181			1,274,633	1,295,181	194,300	199,472	1,468,933	1,494,653
YTD	15,631,766	15,818,265			15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794

2010										
Month	EGAT				Total EGAT				Others	
	Mae-Moh		Krabi		Production	Consumption	Production	Consumption	Production	Consumption
	Production	Consumption	Production	Consumption						
Jan	1,358,183	1,363,194			1,358,183	1,363,194	177,050	171,521	1,535,233	1,534,715
Feb	1,209,511	1,161,660			1,209,511	1,161,660	252,862	144,184	1,462,373	1,305,844
Mar	1,343,448	1,370,186			1,343,448	1,370,186	222,982	189,422	1,566,430	1,559,608
Apr	1,412,283	1,427,231			1,412,283	1,427,231	206,286	161,905	1,618,569	1,589,136
May	1,537,747	1,482,298			1,537,747	1,482,298	183,169	165,206	1,720,916	1,647,504
Jun	1,242,187	1,257,482			1,242,187	1,257,482	218,660	188,479	1,460,847	1,445,961
Jul	1,276,520	1,278,053			1,276,520	1,278,053	153,860	155,133	1,430,380	1,433,186
Aug	1,291,936	1,370,701			1,291,936	1,370,701	132,330	134,749	1,424,266	1,505,450
Sep	1,303,351	1,219,748			1,303,351	1,219,748	123,300	132,236	1,426,651	1,351,984
Oct	1,301,037	1,340,644			1,301,037	1,340,644	165,200	61,942	1,466,237	1,402,586
Nov	1,370,110	1,357,249			1,370,110	1,357,249	173,200	290,589	1,543,310	1,647,838
Dec	1,340,950	1,375,750			1,340,950	1,375,750	261,900	222,319	1,602,850	1,598,069
YTD	15,987,263	16,004,196			15,987,263	16,004,196	2,270,799	2,017,685	18,258,062	18,021,881

Table 4.1-1M (Cont.)
Production and Consumption of Lignite

Unit : Ton

Month	2011					
	EGAT		Total EGAT		Others	
	Mae-Moh	Krabi				
	Production	Consumption	Production	Consumption	Production	Consumption
Jan	1,645,139	1,491,892	1,645,139	1,491,892	191,874	175,748
Feb	1,394,702	1,350,179	1,394,702	1,350,179	176,770	194,535
Mar	1,529,052	1,524,371	1,529,052	1,524,371	200,700	183,361
Apr	1,455,516	1,453,644	1,455,516	1,453,644	172,400	176,201
May	1,340,459	1,552,462	1,340,459	1,552,462	171,000	160,161
Jun	1,618,168	1,490,675	1,618,168	1,490,675	182,905	164,590
Jul	1,456,668	1,537,595	1,456,668	1,537,595	861,525	76,045
Aug	1,664,345	1,393,272	1,664,345	1,393,272	310,755	194,823
Sep	1,377,383	1,344,072	1,377,383	1,344,072	1,080,640	179,521
Oct	1,352,220	1,391,102	1,352,220	1,391,102	136,026	181,797
Nov	1,141,767	1,277,770	1,141,767	1,277,770	155,800	41,765
Dec	1,582,917	1,354,134	1,582,917	1,354,134	128,375	78,443
YTD	17,558,336	17,161,168	17,558,336	17,161,168	3,768,770	1,806,990
					21,327,106	18,968,158

Source : Department of Primary Industry and Mines (DPIM)

Table 4.2-1M
Coal Import

Unit : 1,000 Tons

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1987	1.17	45.04	4.60	9.46	46.95	11.74	84.28	2.71	2.85	14.05	37.59	51.06	311.50
1988	40.27	24.62	52.48	56.06	49.08	13.15	39.53	3.87	5.54	48.12	9.86	18.51	361.08
1989	56.28	48.50	58.45	21.67	33.66	84.22	24.55	57.03	8.52	10.49	21.68	29.99	455.03
1990	21.00	19.09	31.75	7.13	56.19	54.10	10.37	21.95	25.80	7.45	22.07	64.01	340.90
1991	13.52	13.68	24.58	42.49	83.88	69.06	68.24	1.75	15.39	45.05	10.77	81.02	469.42
1992	0.90	31.60	140.89	8.40	0.78	8.85	75.47	54.80	32.96	43.03	9.36	93.83	500.85
1993	193.78	6.62	116.58	31.72	82.90	74.63	59.03	59.12	117.03	42.81	31.82	119.72	935.76
1994	137.83	70.65	39.54	99.37	168.57	130.76	162.35	163.51	111.79	155.01	140.90	138.93	1,519.21
1995	165.00	21.95	295.16	69.94	170.79	241.18	145.36	362.27	179.53	255.87	233.94	206.17	2,347.16
1996	127.96	87.99	180.88	313.03	313.71	481.60	333.40	382.72	397.35	256.60	510.81	519.79	3,905.84
1997	395.31	330.01	397.77	469.03	368.50	287.43	235.44	130.11	140.33	172.19	157.60	205.06	3,288.78
1998	33.59	50.22	47.16	61.23	116.34	158.75	134.79	193.28	133.01	255.77	247.60	201.23	1,632.98
1999	169.81	330.24	57.55	445.49	306.13	272.05	378.92	323.16	430.93	122.11	368.46	73.09	3,277.93
2000	378.32	325.88	132.41	353.40	382.56	390.15	378.13	467.09	420.24	248.30	236.71	470.02	4,183.20
2001	355.10	472.44	463.02	398.42	212.06	466.24	581.70	459.61	276.19	411.67	524.51	324.24	4,945.21
2002	428.95	325.34	471.01	397.54	386.63	455.33	618.43	394.41	475.20	582.29	594.80	468.92	5,598.84
2003	553.82	868.90	675.68	567.41	587.79	520.47	445.63	575.64	583.64	648.67	618.66	464.13	7,110.44
2004	426.58	419.12	353.70	617.44	654.58	497.82	764.34	596.09	679.98	854.35	652.34	1,033.61	7,549.95
2005	709.09	673.49	655.33	706.58	887.05	766.11	441.86	974.44	696.93	555.24	871.68	630.50	8,568.29
2006	678.58	665.24	965.31	684.08	1,118.73	1,090.71	553.04	1,040.25	1,130.49	1,110.90	1,132.69	1,044.78	11,214.80
2007	1,025.09	888.19	1,087.64	1,107.51	1,316.80	1,206.18	1,131.10	1,674.78	1,272.50	1,114.67	1,334.85	1,254.49	14,413.80
2008	1,309.80	1,483.34	1,322.25	1,536.05	1,510.23	1,245.74	1,363.82	1,252.98	1,310.96	1,383.52	1,008.61	1,251.71	15,979.00
2009	893.98	1,136.57	1,320.59	1,590.73	1,465.03	1,234.67	1,554.50	1,448.91	1,678.14	2,043.75	847.68	1,174.29	16,388.84
2010	1,260.12	1,339.83	1,267.86	1,925.20	1,419.13	1,361.40	1,133.69	1,040.14	1,612.57	1,600.90	1,327.56	1,615.80	16,904.21
2011	1,535.90	1,628.44	1,414.31	1,500.03	1,473.01	1,477.62	1,197.48	988.88	1,828.47	1,025.57	1,242.26	1,019.12	16,331.11

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 5 ELECTRICITY

บทที่ 5
ไฟฟ้า



Table 5.1-1M
Electricity Generation by Fuel Type

Unit : GWh

2007												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	754.10	18.64	1,508.21	2,526.78	2.13	0.17	0.07	335.49	1.91	1,233.28	4,878.51	11,259.34
Feb	777.03	106.55	1,466.15	2,591.38	1.91	0.13	0.07	278.82	1.71	1,119.12	4,560.37	10,903.29
Mar	844.96	265.50	1,614.99	3,502.21	1.26	0.10	0.08	386.00	3.84	1,259.96	5,383.24	13,262.19
Apr	732.70	291.31	1,539.22	3,274.42	4.93	0.14	0.06	365.27	3.72	1,112.60	4,890.08	12,214.49
May	540.52	203.60	1,467.99	3,578.15	1.96	0.13	0.05	400.03	2.49	1,232.32	5,235.26	12,662.56
Jun	677.78	273.56	1,485.00	3,262.86	2.51	0.14	0.06	333.76	2.41	1,245.19	5,484.35	12,767.67
Jul	705.67	29.88	1,645.91	3,220.13	2.81	0.15	0.06	422.91	1.15	1,180.70	5,367.56	12,576.97
Aug	644.38	429.53	1,674.06	3,061.95	2.44	0.15	0.08	335.65	1.15	1,210.11	5,375.00	12,734.56
Sep	530.34	236.87	1,553.22	3,459.04	1.08	0.15	0.06	273.48	0.79	1,200.90	5,463.81	12,719.79
Oct	439.72	436.82	1,493.90	2,796.67	2.11	0.17	0.05	502.59	0.77	1,236.83	5,569.63	12,479.29
Nov	552.93	221.46	1,532.52	2,683.91	1.81	0.18	0.05	435.94	0.75	1,189.48	4,959.74	11,578.81
Dec	761.18	452.78	1,516.45	2,544.13	3.23	0.17	0.07	418.36	0.97	1,218.90	4,950.60	11,866.89
YTD	7,961.35	2,966.57	18,497.67	36,501.68	28.23	1.83	0.80	4,488.35	21.70	14,439.45	62,118.21	147,025.89

2008												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	739.38	2.54	1,504.67	2,644.43	2.05	0.12	0.06	342.25	1.80	1,280.14	5,363.75	11,881.10
Feb	714.01	95.98	1,472.24	2,441.37	1.32	0.12	0.06	170.17	2.14	1,155.92	5,477.56	11,530.95
Mar	823.86	449.24	1,537.81	2,741.85	2.63	0.11	0.07	152.47	3.74	1,231.51	6,344.41	13,287.76
Apr	824.42	341.43	1,623.50	3,002.93	5.97	0.08	0.05	260.31	3.55	1,159.36	5,370.33	12,591.95
May	542.47	91.78	1,693.16	3,345.53	1.01	0.10	0.05	167.29	1.15	1,172.51	6,042.77	13,057.87
Jun	530.02	4.28	1,573.29	3,209.43	1.81	0.13	0.05	227.36	1.12	1,057.22	6,179.88	12,784.63
Jul	520.52	1.71	1,426.75	3,515.10	1.42	0.13	0.05	275.81	3.12	1,156.32	6,169.54	13,070.50
Aug	436.71	1.29	1,528.56	3,528.01	1.29	0.14	0.05	271.38	3.12	1,176.01	6,092.15	13,038.75
Sep	388.36	1.79	1,557.74	3,154.20	1.79	0.13	0.07	327.00	3.69	1,168.49	5,770.06	12,373.38
Oct	376.44		1,526.44	3,419.39	1.28	0.13	0.06	268.44	2.85	1,211.22	5,911.31	12,717.60
Nov	428.33		1,558.82	3,149.15	1.29	0.10	0.06	183.02	1.26	1,140.68	4,884.89	11,347.64
Dec	626.11		1,676.25	3,109.54	1.37	0.09	0.06	138.02	1.16	1,127.00	3,859.10	10,538.74
YTD	6,950.69	990.08	18,679.29	37,260.97	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93

Table 5.1-1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

2009												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	742.81	33.27	1,640.53	2,622.14	1.24	0.09	0.06	171.11	1.47	1,175.62	4,020.95	10,409.34
Feb	715.34		1,308.97	2,833.02	1.01	0.14	0.06	106.09	2.07	1,028.56	5,098.89	11,094.18
Mar	810.43		1,467.57	3,782.28	12.90	0.09	0.06	130.43	3.84	1,247.76	5,444.00	12,899.41
Apr	718.98		1,484.73	3,738.41	8.24	0.03	0.05	108.28	3.70	1,131.85	4,970.90	12,165.21
May	539.55	1.74	1,526.55	3,884.36	6.78	0.03	0.01	147.44	2.26	1,149.93	5,523.26	12,781.95
Jun	367.89	7.27	1,596.28	3,511.53	1.16	0.09	0.02	182.69	1.49	1,210.22	5,793.66	12,672.35
Jul	368.54	1.86	1,619.79	3,501.53	1.94	0.13	0.01	236.85	2.24	1,163.26	5,907.05	12,803.25
Aug	584.43	149.59	1,465.13	3,282.64	0.43	0.14	0.31	275.08	1.87	1,114.68	6,283.35	13,157.69
Sep	391.91	3.42	1,414.31	3,542.13	2.91	0.14	0.30	205.87	1.04	1,150.22	6,039.65	12,751.94
Oct	476.09	181.21	1,447.91	3,713.20	1.80	0.15	0.14	273.76	1.68	1,161.96	5,854.99	13,112.93
Nov	516.94	30.56	1,423.55	3,633.83	2.79	0.16	0.45	336.00	1.12	1,160.03	5,171.54	12,277.02
Dec	732.77	39.28	1,526.71	3,715.89	3.82	0.17	0.34	277.76	1.21	1,207.95	4,732.41	12,238.36
YTD	6,965.73	448.23	17,922.09	41,761.01	45.07	1.40	1.86	2,451.41	24.03	13,902.10	64,840.70	148,363.67

2010												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	618.82	15.71	1,516.20	3,426.01	2.71	0.15	0.36	164.14	1.52	1,263.47	5,554.42	12,563.56
Feb	638.58	3.70	1,326.95	3,680.29	4.43	0.10	0.33	143.12	1.72	1,095.52	5,702.45	12,597.24
Mar	769.18	155.17	1,562.91	4,697.21	5.05	0.13	0.45	568.33	3.83	1,267.29	5,466.86	14,496.44
Apr	512.75	16.63	1,585.88	3,996.71	3.16	0.09	0.48	741.42	3.70	1,170.34	5,876.20	13,907.42
May	520.91	51.70	1,658.24	4,330.16	2.78	0.09	0.45	791.99	1.53	1,153.95	6,360.42	14,872.26
Jun	415.50	23.04	1,434.94	4,201.51	2.56	0.14	0.40	789.05	1.48	1,090.41	6,275.37	14,234.45
Jul	334.90	168.90	1,436.77	4,039.46	7.68	0.12	0.50	801.08	2.30	1,050.59	6,372.14	14,214.47
Aug	340.78	53.78	1,525.45	4,345.63	1.78	0.13	0.55	768.50	3.03	1,152.60	5,549.60	13,741.87
Sep	245.45	39.39	1,363.66	4,424.80	2.73	0.13	0.34	780.24	2.15	1,092.89	5,691.64	13,643.46
Oct	170.85	7.28	1,508.24	4,665.88	2.39	0.17	0.51	795.42	1.10	1,139.27	5,350.08	13,641.23
Nov	328.70		1,525.55	4,539.11	2.86	0.17	0.67	486.98	0.47	1,165.96	4,866.90	12,917.42
Dec	450.27	22.98	1,542.78	4,455.67	3.41	0.18	0.56	423.47	0.75	1,228.46	4,709.84	12,838.42
YTD	5,346.75	558.31	17,987.62	50,802.50	41.58	1.64	5.65	7,253.78	23.63	13,870.80	67,775.98	163,668.29

Table 5.1-1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

2011												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	576.86	28.65	1,692.66	3,986.62	1.69	0.17	0.60	412.36	1.38	1,312.23	4,590.69	12,603.96
Feb	651.58	31.05	1,493.69	4,219.53	1.53	0.07	0.28	638.01	1.73	1,104.25	4,416.78	12,558.54
Mar	583.67		1,579.02	4,176.08	1.73	0.18	0.56	789.54	3.45	1,333.72	5,391.25	13,859.23
Apr	470.47	106.12	1,623.15	3,543.82	2.05	0.14	0.29	1,019.11	3.35	1,258.04	5,317.57	13,344.14
May	374.06	100.82	1,710.82	4,226.58	1.00	0.14	0.31	1,075.41	1.15	1,291.47	5,838.57	14,620.37
Jun	394.08	229.14	1,616.95	3,793.61	6.52	0.74	0.11	1,072.21	1.07	1,212.03	5,914.47	14,240.98
Jul	392.17	282.16	1,703.10	3,628.22	5.90	0.10	0.80	1,315.34	1.15	1,311.07	5,788.59	14,428.63
Aug	901.68	127.71	1,550.25	3,874.16	3.16	0.15	0.73	792.65	3.25	1,257.46	5,963.61	14,474.84
Sep	999.19	268.72	1,505.42	3,722.90	1.95	0.10	0.58	1,120.57	8.56	1,193.47	5,287.86	14,109.36
Oct	1,137.35	63.91	1,532.09	3,407.48	3.10		0.51	1,164.63	8.56	1,212.44	4,877.19	13,407.29
Nov	631.55	38.41	1,346.62	3,695.20	1.26		0.54	909.58	0.73	1,226.84	4,600.85	12,451.62
Dec	822.20	18.17	1,481.80	3,589.17	6.04		0.86	464.95	1.03	1,221.35	4,638.50	12,244.13
YTD	7,934.92	1,294.89	18,835.62	45,863.41	35.97	1.82	6.21	10,774.40	35.46	14,934.42	62,625.96	162,343.13

Source : EGAT

Remark : Power Generation from NG and Diesel Oil not Include REGCO'S Generation Since Dec, 1994

Table 5.1-2M
Electricity Generation Classified by Fuel Type

Unit : GWh

2007							
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	754.1	18.6	2,587.9	7,315.1	2.1	335.5	244.8
Feb	777.0	106.6	2,481.5	7,042.5	1.9	278.8	214.6
Mar	845.0	265.5	2,679.4	8,829.5	1.3	386.0	252.8
Apr	732.7	291.3	2,587.1	8,001.9	4.9	365.3	227.4
May	540.5	203.6	2,613.4	8,681.2	2.0	400.0	217.5
Jun	677.8	273.6	2,656.6	8,621.5	2.5	333.8	197.4
Jul	705.7	29.9	2,759.5	8,457.3	2.8	422.9	195.5
Aug	644.4	429.5	2,579.9	8,554.8	2.5	335.7	187.9
Sep	530.4	236.9	2,685.2	8,819.5	1.1	273.5	171.9
Oct	439.7	436.8	2,644.3	8,278.4	2.1	502.6	175.1
Nov	552.9	221.5	2,368.2	7,847.1	1.8	436.0	151.4
Dec	761.2	452.8	2,238.2	7,794.7	3.2	418.4	198.5
Total	7,961.4	2,966.6	30,881.1	98,243.5	28.2	4,488.4	2,434.7
147,025.9							
2008							
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	739.4	2.5	2,623.6	7,950.3	2.1	342.3	221.0
Feb	714.0	96.0	2,533.5	7,817.4	1.3	170.2	198.6
Mar	823.9	449.2	2,698.2	8,954.6	2.6	152.5	206.7
Apr	824.4	341.4	2,780.0	8,182.0	6.0	260.3	194.6
May	542.5	91.8	2,730.9	9,342.4	1.0	167.3	178.1
Jun	530.0	4.3	2,603.6	9,243.2	1.8	227.4	174.4
Jul	520.5	1.7	2,498.4	9,590.4	1.4	275.8	179.8
Aug	436.7	1.3	2,514.8	9,641.3	1.3	271.4	168.8
Sep	388.4	1.8	2,581.8	8,899.0	1.8	327.0	169.2
Oct	376.5		2,593.8	9,301.9	1.3	268.5	172.0
Nov	428.3		2,417.6	8,194.6	1.3	183.0	119.9
Dec	626.1		2,261.6	7,341.0	1.4	138.0	167.9
Total	6,950.7	990.1	30,837.7	104,458.0	23.3	2,783.6	2,150.9
148,220.9							

Table 5.1-2M (Cont.)
Electricity Generation Classified by Fuel Type

Unit : GWh

Month	2009						Total
	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	742.8	33.3	2,688.5	6,572.1	1.3	171.1	197.4
Feb	715.4		2,280.6	7,680.2	1.0	106.1	308.1
Mar	810.4		2,585.0	9,168.4	12.9	130.4	189.8
Apr	719.0		2,579.3	8,579.8	8.2	108.3	168.1
May	539.6	1.7	2,623.5	9,283.3	6.8	147.5	177.2
Jun	367.9	7.3	2,664.2	9,273.5	1.2	182.7	173.2
Jul	368.5	1.9	2,734.5	9,262.1	1.9	236.9	194.8
Aug	584.4	149.6	2,547.8	9,417.9	0.4	275.1	179.6
Sep	391.9	3.4	2,485.6	9,486.2	2.9	205.9	172.5
Oct	476.1	181.2	2,281.2	9,738.4	1.8	273.8	158.1
Nov	517.0	30.6	2,143.1	9,086.1	2.8	336.0	154.8
Dec	732.8	39.3	2,194.9	8,795.4	3.8	277.8	192.2
Total	6,965.7	448.2	29,808.1	106,343.4	45.1	2,451.4	2,265.7
148,363.7							
Month	2010						Total
	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others
Jan	618.8	15.7	2,648.7	8,883.9	2.7	164.1	227.0
Feb	638.6	3.7	2,335.2	9,265.2	4.4	143.1	205.3
Mar	769.2	155.2	2,724.3	10,044.7	5.1	568.3	229.6
Apr	512.8	16.6	2,671.8	9,750.9	3.2	741.4	208.4
May	520.9	51.7	2,731.6	10,583.5	2.8	792.0	188.0
Jun	415.5	23.0	2,490.9	10,327.3	2.6	789.1	185.9
Jul	334.9	168.9	2,488.5	10,238.3	7.7	801.1	174.1
Aug	340.8	53.8	2,647.3	9,761.3	1.8	768.5	166.2
Sep	245.5	39.4	2,408.8	10,006.3	2.7	780.3	160.4
Oct	170.9	7.3	2,353.7	10,142.0	2.4	795.4	167.2
Nov	328.7		2,256.9	9,694.5	2.9	487.0	145.6
Dec	450.3	23.0	2,006.5	9,740.4	3.4	423.5	189.1
Total	5,346.8	558.3	29,764.1	118,438.2	41.6	7,253.8	2,246.7
163,668.3							

Table 5.1-2M (Cont.)
Electricity Generation Classified by Fuel Type

Unit : GWh

Month	Hydro Electricity	Fuel Oil	Coal & Lignite	2011				Imported	Others	Total
				Natural Gas	Diesel					
Jan	576.9	28.7	2,799.7	8,566.4	1.7		412.4		217.3	12,604.0
Feb	651.6	31.1	2,484.7	8,573.9	1.5		638.0		177.8	12,558.5
Mar	583.7		2,710.6	9,552.4	1.7		789.5		220.9	13,859.2
Apr	470.5	106.1	2,713.4	8,822.7	2.1		1,019.1		208.3	13,344.1
May	374.1	100.8	2,854.3	10,019.1	1.0		1,075.4		192.9	14,620.4
Jun	394.1	229.2	2,698.6	9,653.2	6.5		1,072.2		182.7	14,241.0
Jul	392.2	282.2	2,890.2	9,335.4	5.9		1,315.3		203.9	14,428.6
Aug	901.7	127.7	2,671.0	9,777.9	3.2		792.7		197.4	14,474.9
Sep	999.2	268.7	2,636.1	8,921.4	2.0		1,120.6		158.0	14,109.4
Oct	1,137.4	63.9	2,688.1	8,210.1	3.1		1,164.6		136.2	13,407.3
Nov	631.6	38.4	2,229.0	8,447.8	1.3		909.6		187.4	12,451.6
Dec	822.2	18.2	2,305.1	8,381.1	6.0		465.0		226.4	12,244.1
Total	7,934.9	1,294.9	31,680.9	108,261.4	36.0		10,774.4		2,309.1	162,343.1

Source : EGAT

Table 5.1-3M
Peak, Demand and Load Factor

2007			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	19,755	11,259	76.6
Feb	20,593	10,903	78.8
Mar	22,161	13,262	80.4
Apr	22,586	12,214	75.1
May	21,234	12,663	80.2
Jun	21,555	12,768	82.3
Jul	20,396	12,577	82.9
Aug	20,853	12,735	82.1
Sep	21,063	12,720	83.9
Oct	20,594	12,479	81.4
Nov	20,483	11,579	78.5
Dec	20,958	11,867	76.1
Total	22,586	147,026	74.3

2008			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	20,733	11,881	77.0
Feb	20,708	11,531	80.0
Mar	22,122	13,288	80.7
Apr	22,568	12,592	77.5
May	21,610	13,058	81.2
Jun	21,396	12,785	83.0
Jul	21,489	13,071	81.8
Aug	21,590	13,054	81.3
Sep	21,014	12,401	82.0
Oct	20,711	12,718	82.5
Nov	20,201	11,348	78.0
Dec	18,394	10,539	77.0
Total	22,568	148,264	74.8

2009			
Month	Peak* (MW)	Generation (GWh)	Load Factor (%)
Jan	19,082	10,409	73.3
Feb	21,301	11,094	77.5
Mar	21,851	12,899	79.3
Apr	22,596	12,165	74.8
May	21,366	12,782	80.4
Jun	21,361	12,672	82.4
Jul	21,141	12,812	81.5
Aug	21,766	13,158	81.2
Sep	21,444	12,752	82.6
Oct	21,585	13,113	81.7
Nov	22,380	12,277	76.2
Dec	21,505	12,238	76.5
Total	22,596	148,372	75.0

Table 5.1-3M (Cont.)
Peak, Demand and Load Factor

2010			
Month	Peak* (MW)	Generation (GWh)	Load Factor (%)
Jan	21,510	12,564	78.5
Feb	22,449	12,597	83.5
Mar	23,886	14,496	81.6
Apr	24,495	13,907	78.9
May	24,630	14,872	81.2
Jun	23,813	14,234	83.0
Jul	23,574	14,214	81.0
Aug	22,417	13,742	82.4
Sep	22,731	13,635	83.3
Oct	22,360	13,641	82.0
Nov	22,884	12,917	78.4
Dec	22,964	12,838	75.1
Total	24,630	163,660	75.9

2011			
Month	Peak* (MW)	Generation (GWh)	Load Factor (%)
Jan	21,837	12,604	77.6
Feb	22,792	12,559	82.0
Mar	23,735	13,859	78.5
Apr	23,905	13,344	77.5
May	24,518	14,620	80.2
Jun	23,600	14,241	83.8
Jul	24,075	14,429	80.6
Aug	24,003	14,475	81.1
Sep	23,338	14,109	84.0
Oct	22,622	13,407	79.7
Nov	21,508	12,452	80.4
Dec	21,731	12,244	75.7
Total	24,518	162,343	75.6

Source : EGAT

* Remark : 1) EGAT Gross Peak Generation from 2007-2008
2) Peak Estimation from EGAT (Net Peak) since 2009

Table 5.1-4M
EGAT Purchased from SPP

Unit : GWh

2007					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	805.17	184.25	1.28	242.60	1,233.29
Feb	759.04	146.97	0.48	212.64	1,119.13
Mar	886.36	122.12	2.65	248.85	1,259.97
Apr	751.05	134.25	3.81	223.49	1,112.60
May	818.35	194.82	4.28	214.88	1,232.32
Jun	790.91	254.95	4.60	194.74	1,245.20
Jul	813.66	169.58	3.31	194.15	1,180.70
Aug	831.88	191.76	0.02	186.45	1,210.12
Sep	816.31	212.36	1.39	170.84	1,200.90
Oct	856.53	205.95	0.27	174.09	1,236.83
Nov	828.67	210.44		150.38	1,189.49
Dec	821.39	200.27		197.25	1,218.91
YTD	9,779.30	2,227.71	22.08	2,410.37	14,439.45

2008					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	846.90	214.11		219.13	1,280.14
Feb	791.95	167.75		196.22	1,155.93
Mar	840.83	187.88		202.81	1,231.52
Apr	765.70	199.48	3.19	191.00	1,159.37
May	815.49	176.26	3.94	176.83	1,172.52
Jun	781.36	102.80		173.06	1,057.22
Jul	818.94	158.47	2.44	176.48	1,156.32
Aug	863.75	143.55	3.25	165.46	1,176.01
Sep	828.53	170.16	4.45	165.36	1,168.50
Oct	850.61	187.87	3.84	168.91	1,211.22
Nov	843.53	175.81	2.92	118.43	1,140.68
Dec	825.97	131.78	2.70	166.56	1,127.01
YTD	9,873.57	2,015.89	26.72	2,120.25	14,036.43

2009					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	825.10	151.87	2.94	195.73	1,175.63
Feb	607.01	112.93	2.76	305.86	1,028.56
Mar	892.67	166.77	2.54	185.79	1,247.77
Apr	771.00	194.11	2.49	164.26	1,131.86
May	826.78	145.86	2.41	174.89	1,149.94
Jun	865.88	170.37	2.38	171.61	1,210.23
Jul	803.60	164.62	2.69	192.36	1,163.26
Aug	817.73	116.78	2.87	177.29	1,114.68
Sep	828.99	146.60	2.39	171.03	1,149.00
Oct	850.30	153.13	2.46	156.07	1,161.96
Nov	834.94	165.34	2.40	153.03	1,155.70
Dec	835.74	179.48	2.26	190.48	1,207.96
YTD	9,759.71	1,867.85	30.58	2,238.41	13,896.54

Table 5.1-4M (Cont.)
EGAT Purchased from SPP

Unit : GWh

2010					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	864.73	171.26	2.60	224.90	1,263.48
Feb	752.60	138.07	1.79	203.07	1,095.52
Mar	857.66	184.42	0.01	225.21	1,267.29
Apr	809.44	154.44	2.38	204.09	1,170.35
May	811.28	154.89	1.84	185.95	1,153.96
Jun	783.22	123.10	0.18	183.93	1,090.42
Jul	782.20	96.13	1.12	171.14	1,050.59
Aug	830.06	157.76	2.28	162.50	1,152.60
Sep	825.01	109.92	0.20	157.78	1,092.89
Oct	843.80	127.64	2.47	165.36	1,139.27
Nov	847.78	172.02	1.93	144.24	1,165.97
Dec	887.67	150.96	2.28	187.56	1,228.46
YTD	9,895.45	1,740.59	19.06	2,215.71	13,870.81

2011					
Month	Natural Gas (NG)	Coal / Lignite	Oil	Renewable Energy	Total
Jan	904.13	191.94	1.02	215.15	1,312.23
Feb	816.10	112.42		175.74	1,104.25
Mar	947.54	169.04	0.43	216.71	1,333.72
Apr	875.16	176.45	1.89	204.54	1,258.04
May	913.14	184.32	2.77	191.25	1,291.48
Jun	901.12	125.59	4.58	180.74	1,212.04
Jul	912.00	193.75	3.48	201.86	1,311.08
Aug	898.30	162.59	3.31	193.27	1,257.46
Sep	874.20	167.11	3.43	148.73	1,193.47
Oct	881.45	200.02	3.87	127.10	1,212.45
Nov	821.13	212.99	6.64	186.83	1,227.59
Dec	832.20	144.53	20.10	225.56	1,222.39
YTD	10,576.45	2,040.75	51.53	2,267.47	14,936.20

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5M
EGAT Purchased from IPP

Unit : GWh

2007			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	3,983.09	895.42	4,878.51
Feb	3,692.02	868.35	4,560.37
Mar	4,440.95	942.30	5,383.25
Apr	3,976.48	913.61	4,890.09
May	4,284.72	950.55	5,235.27
Jun	4,567.69	916.67	5,484.36
Jul	4,423.51	944.05	5,367.56
Aug	4,660.98	714.03	5,375.01
Sep	4,544.16	919.66	5,463.82
Oct	4,625.24	944.40	5,569.63
Nov	4,334.51	625.24	4,959.75
Dec	4,429.16	521.45	4,950.60
YTD	51,962.49	10,155.73	62,118.21

2008			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,458.95	904.81	5,363.75
Feb	4,584.09	893.47	5,477.56
Mar	5,371.89	972.53	6,344.42
Apr	4,413.31	957.03	5,370.34
May	5,181.33	861.45	6,042.78
Jun	5,252.40	927.48	6,179.89
Jul	5,256.34	913.20	6,169.55
Aug	5,249.52	842.64	6,092.15
Sep	4,916.23	853.84	5,770.07
Oct	5,031.84	879.48	5,911.32
Nov	4,201.94	682.95	4,884.89
Dec	3,405.54	453.57	3,859.11
YTD	57,323.36	10,142.45	67,465.82

2009			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	2,647.62	896.07	3,543.68
Feb	4,240.18	858.71	5,098.89
Mar	4,493.39	950.61	5,444.00
Apr	4,070.42	900.48	4,970.90
May	4,572.15	951.12	5,523.27
Jun	4,896.15	897.52	5,793.66
Jul	4,956.94	950.12	5,907.06
Aug	5,317.50	965.86	6,283.36
Sep	5,115.03	924.63	6,039.65
Oct	5,174.85	680.14	5,854.99
Nov	4,617.35	554.19	5,171.54
Dec	4,243.75	488.67	4,732.42
YTD	54,345.31	10,018.13	64,363.43

Table 5.1-5M (Cont.)
EGAT Purchased from IPP

Unit : GWh

2010			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	4,593.17	961.25	5,554.42
Feb	4,832.23	870.22	5,702.46
Mar	4,489.85	977.01	5,466.86
Apr	4,944.75	931.45	5,876.21
May	5,442.01	918.41	6,360.43
Jun	5,342.58	932.80	6,275.38
Jul	5,416.59	955.56	6,372.15
Aug	4,585.56	964.04	5,549.61
Sep	4,756.48	935.16	5,691.64
Oct	4,632.33	717.76	5,350.09
Nov	4,307.56	559.35	4,866.91
Dec	4,397.09	312.76	4,709.85
YTD	57,740.20	10,035.79	67,775.98

2011			
Month	Natural Gas (NG)	Coal / Lignite	Total
Jan	3,675.62	915.08	4,590.69
Feb	3,538.19	878.59	4,416.78
Mar	4,428.74	962.51	5,391.26
Apr	4,403.76	913.82	5,317.58
May	4,879.39	959.19	5,838.58
Jun	4,958.44	956.04	5,914.48
Jul	4,795.21	993.38	5,788.59
Aug	5,005.48	958.13	5,963.61
Sep	4,324.26	963.61	5,287.86
Oct	3,921.14	956.02	4,877.16
Nov	3,931.49	669.36	4,600.85
Dec	3,959.72	678.79	4,638.51
YTD	51,821.42	10,804.52	62,625.94

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.2-1M
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2007													
Jan	27.36	563.60	604.40	439.97	608.83	1,222.43	131.29	89.22	0.00	0.00	0.00	18.42	3,114.56
Feb	30.04	629.04	674.37	464.07	599.66	1,163.32	129.08	90.91	0.00	0.00	0.00	16.69	3,138.10
Mar	39.30	791.57	852.07	551.83	723.00	1,370.58	162.40	104.91	0.00	0.00	0.00	18.59	3,783.37
Apr	41.10	798.01	859.27	530.71	632.22	1,238.09	153.97	91.48	0.00	0.00	0.00	18.11	3,523.86
May	39.30	768.72	830.26	536.69	687.60	1,347.43	152.57	102.92	0.00	0.00	0.00	18.74	3,676.24
Jun	35.42	815.92	873.03	559.95	707.02	1,338.71	156.41	117.92	0.00	0.00	0.00	18.23	3,771.28
Jul	32.82	731.60	782.47	521.66	677.82	1,329.75	149.57	110.55	0.00	0.00	0.00	18.96	3,590.77
Aug	31.27	748.21	800.72	526.30	687.96	1,333.33	154.12	108.52	0.00	0.00	0.00	19.11	3,630.06
Sep	31.19	761.60	811.44	534.84	680.54	1,309.17	149.42	111.36	0.00	0.00	0.00	18.59	3,615.36
Oct	31.16	716.41	766.53	516.35	669.37	1,334.57	149.15	96.78	0.00	0.00	0.00	19.27	3,552.01
Nov	28.34	648.02	691.96	484.53	648.66	1,266.31	139.84	96.99	0.00	0.00	0.00	18.73	3,347.03
Dec	28.64	639.68	683.89	483.42	636.57	1,230.44	145.85	93.17	0.00	0.00	0.00	19.44	3,292.78
YTD	395.94	8,612.39	9,230.43	6,150.31	7,959.27	15,484.14	1,773.67	1,214.71	0.00	0.00	0.00	222.88	42,035.41
2008													
Jan	30.47	661.22	707.48	491.41	646.94	1,273.01	147.21	94.51	0.00	0.00	0.00	19.49	3,380.06
Feb	32.63	667.19	715.97	493.14	629.54	1,229.92	139.74	94.58	0.00	0.00	0.00	18.29	3,321.18
Mar	37.14	750.11	805.01	535.02	713.67	1,374.66	161.33	102.68	0.00	0.00	0.00	19.64	3,712.02
Apr	40.85	838.05	900.30	546.70	630.62	1,257.13	158.31	93.81	0.00	0.00	0.00	19.06	3,605.94
May	38.50	786.80	845.24	548.11	706.87	1,364.61	160.04	105.44	0.00	0.00	0.00	19.73	3,750.04
Jun	34.31	762.81	815.90	540.29	691.31	1,342.36	155.72	116.72	0.00	0.00	0.00	19.13	3,681.41
Jul	32.10	760.29	810.09	537.39	687.00	1,344.63	158.11	112.96	0.00	0.00	0.00	19.81	3,669.99
Aug	32.51	775.68	829.35	551.11	692.40	1,366.03	161.17	119.93	0.00	0.00	0.00	19.86	3,739.84
Sep	31.94	757.61	807.66	536.81	661.23	1,270.95	147.73	110.28	0.00	0.00	0.00	19.28	3,553.93
Oct	32.73	765.03	817.12	543.11	672.09	1,315.06	155.78	113.44	0.00	0.00	0.00	20.01	3,636.61
Nov	29.70	671.20	715.17	488.99	619.89	1,173.34	140.20	102.17	0.00	0.00	0.00	19.41	3,259.19
Dec	26.75	571.42	612.13	441.01	561.93	1,082.31	123.94	84.27	0.00	0.00	0.00	20.09	2,925.69
YTD	399.63	8,767.42	9,381.42	6,253.09	7,913.50	15,394.02	1,809.30	1,250.78	0.00	0.00	0.00	233.80	42,235.91

Table 5.2-1M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2009													
Jan	27.15	555.09	595.56	427.39	528.53	1,049.35	125.85	81.93	0.00	0.00	0.00	20.51	2,829.12
Feb	36.88	706.22	759.95	505.98	586.21	1,098.76	138.58	98.38	0.00	0.00	0.00	18.91	3,206.77
Mar	44.54	816.57	877.06	569.92	671.74	1,238.38	162.63	111.58	0.00	0.00	0.00	21.37	3,652.68
Apr	47.22	851.24	920.31	544.84	587.89	1,106.23	151.46	94.50	0.00	0.00	0.00	21.81	3,427.04
May	41.43	816.05	878.82	556.50	657.24	1,234.67	154.70	109.12	0.00	0.00	0.00	22.27	3,613.31
Jun	34.89	798.27	849.78	549.11	663.21	1,245.42	151.88	116.47	0.00	0.00	0.00	22.00	3,597.87
Jul	32.97	779.64	834.35	541.43	674.88	1,273.30	153.58	115.76	0.00	0.00	0.00	23.21	3,616.52
Aug	34.07	824.89	877.83	561.05	677.67	1,296.83	160.97	117.81	0.00	0.00	0.00	23.69	3,715.85
Sep	33.76	813.30	866.66	554.51	663.66	1,255.85	151.46	116.93	0.00	0.00	0.00	23.40	3,632.47
Oct	32.83	762.08	812.69	535.06	668.56	1,318.33	155.18	120.31	0.00	0.00	0.00	24.69	3,634.82
Nov	31.25	737.57	784.09	519.36	642.83	1,245.18	140.58	106.61	0.00	0.00	0.00	24.39	3,463.03
Dec	29.40	675.68	722.16	514.50	596.89	1,242.76	142.94	98.85	0.00	0.00	0.00	25.73	3,343.82
YTD	426.38	9,136.60	9,779.26	6,379.67	7,619.31	14,605.04	1,789.81	1,288.25	0.00	0.00	0.00	271.96	41,733.30
2010													
Jan	32.10	725.69	776.32	523.86	609.93	1,272.82	147.22	104.82	0.00	0.00	0.00	26.23	3,461.18
Feb	35.17	783.12	836.16	559.48	603.95	1,271.27	145.57	108.85	0.00	0.00	0.00	23.73	3,549.02
Mar	39.28	865.74	925.56	585.78	678.58	1,432.43	164.48	110.19	0.00	0.00	0.00	26.32	3,923.33
Apr	43.53	960.17	1,026.50	598.13	615.76	1,260.79	156.04	105.70	0.00	0.00	0.00	26.37	3,789.30
May	44.27	1,015.32	1,082.18	624.80	658.62	1,368.39	150.06	107.04	0.00	0.00	0.00	26.38	4,017.47
Jun	37.92	942.92	1,003.40	613.49	680.63	1,418.06	152.60	127.41	0.00	0.00	0.00	25.56	4,021.16
Jul	32.65	879.08	930.91	592.56	668.85	1,443.33	159.40	125.18	0.00	0.00	0.00	26.47	3,946.69
Aug	30.25	827.78	876.83	569.51	644.83	1,403.22	149.56	124.77	0.00	0.00	0.00	26.54	3,795.27
Sep	30.47	824.46	873.47	574.41	656.37	1,411.03	148.84	123.86	0.00	0.00	0.00	25.73	3,813.71
Oct	30.44	773.87	820.60	550.39	636.84	1,393.15	145.94	110.04	0.00	0.00	0.00	26.70	3,683.66
Nov	30.01	742.14	787.33	532.06	617.34	1,351.20	138.39	102.75	0.00	0.00	0.00	25.88	3,554.94
Dec	30.26	729.33	776.67	534.71	614.24	1,300.25	144.48	107.29	0.00	0.00	0.00	26.80	3,504.43
YTD	416.35	10,069.61	10,715.93	6,859.18	7,685.95	16,325.93	1,802.57	1,357.89	0.00	0.00	0.00	312.71	45,060.16

Table 5.2-1M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2011													
Jan	29.71	663.93	707.16	498.90	583.64	1,309.63	132.00	92.43	0.00	0.00	0.00	26.89	3,350.67
Feb	33.96	737.31	787.29	530.59	588.33	1,287.57	135.96	96.08	0.00	0.00	0.00	24.33	3,450.16
Mar	36.46	753.44	806.64	538.21	662.42	1,442.64	144.34	102.51	0.00	0.00	0.00	34.18	3,730.94
Apr	40.42	806.94	864.57	537.41	581.44	1,286.64	144.54	89.44	0.00	0.00	0.00	28.50	3,532.55
May	43.30	906.08	968.86	604.87	666.01	1,439.54	159.02	111.92	0.00	0.00	0.00	29.51	3,979.73
Jun	40.20	874.62	933.59	603.06	675.93	1,455.54	155.18	124.64	0.00	0.00	0.00	28.93	3,976.87
Jul	36.80	857.37	912.80	588.44	667.96	1,446.47	154.97	120.96	0.00	0.02	0.00	29.76	3,921.37
Aug	34.71	850.28	902.59	588.27	663.96	1,436.96	157.18	122.02	0.00	1.68	0.00	29.75	3,902.41
Sep	34.00	834.69	886.08	579.71	672.01	1,478.78	154.98	118.62	0.00	6.88	0.00	26.28	3,923.33
Oct	32.53	782.30	832.37	556.17	609.59	1,370.48	154.38	111.21	0.00	9.30	0.00	29.80	3,673.29
Nov	32.23	770.58	819.79	530.21	550.44	1,246.33	150.63	107.93	0.00	10.88	0.00	29.23	3,445.43
Dec	28.16	661.06	703.06	488.58	572.82	1,268.36	136.52	95.48	0.00	13.34	0.00	29.84	3,308.00
YTD	422.47	9,498.61	10,124.80	6,644.43	7,494.56	16,468.94	1,779.70	1,293.24	0.00	42.08	0.00	346.99	44,194.74

Source : MEA

Table 5.2-2M
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	
	< 150 kWh	> 150 kWh												Total
2007														
Jan	531.99	775.84	1,307.83	499.25	1,136.07	3,006.31	173.64	200.91	31.92	49.31	0.36	166.39	115.11	6,687.08
Feb	513.16	767.06	1,280.22	492.09	1,107.48	2,893.33	166.96	206.39	36.92	50.19	1.90	154.90	110.20	6,500.57
Mar	659.30	974.83	1,634.13	605.30	1,335.94	3,333.64	205.65	253.88	37.63	54.66	4.25	192.08	113.57	7,770.74
Apr	689.57	1,007.85	1,697.43	614.64	1,234.12	2,947.24	202.67	241.57	33.08	53.89	5.19	177.42	113.66	7,320.92
May	682.51	978.72	1,661.23	611.77	1,277.34	3,341.90	187.10	240.30	12.56	52.57	6.62	162.37	110.13	7,663.89
Jun	650.94	1,027.88	1,678.82	626.13	1,300.71	3,274.53	187.75	282.06	16.45	54.69	2.35	161.97	108.58	7,694.04
Jul	622.80	997.83	1,620.63	613.95	1,231.24	3,361.52	192.10	282.64	27.91	53.61	2.20	187.53	111.58	7,684.92
Aug	625.34	1,013.89	1,639.23	614.16	1,227.19	3,403.70	196.97	271.78	22.25	55.14	2.79	181.57	114.95	7,729.74
Sep	603.91	986.90	1,590.80	601.24	1,224.15	3,354.62	187.04	298.77	10.72	55.75	3.19	169.40	117.92	7,613.61
Oct	610.64	980.25	1,590.89	603.06	1,217.65	3,435.30	185.56	256.80	8.79	56.42	3.38	160.32	122.23	7,640.39
Nov	589.31	941.18	1,530.48	592.01	1,193.65	3,312.37	176.62	236.95	11.09	55.57	3.28	165.68	126.91	7,404.63
Dec	568.10	907.75	1,475.85	583.03	1,181.13	3,169.29	192.64	243.03	18.43	56.91	2.64	188.29	135.52	7,246.77
YTD	7,347.58	11,359.97	18,707.55	7,056.63	14,666.67	38,833.76	2,254.71	3,015.08	267.77	648.70	38.16	2,067.92	1,400.35	88,957.32
2008														
Jan	561.28	895.89	1,457.17	573.10	1,162.40	3,275.49	197.83	232.48	35.78	51.20	3.21	163.77	139.53	7,291.96
Feb	553.99	908.45	1,462.44	575.90	1,150.47	3,176.16	192.30	235.78	35.29	55.10	2.58	165.08	134.93	7,186.02
Mar	624.03	966.02	1,590.05	611.17	1,296.91	3,573.23	219.91	252.32	43.28	58.49	4.10	158.97	124.97	7,933.40
Apr	691.63	1,096.84	1,788.47	661.97	1,212.84	3,188.60	220.66	248.79	38.38	56.55	6.10	140.62	122.27	7,685.23
May	666.97	1,034.06	1,701.03	644.89	1,299.06	3,547.38	210.98	251.72	14.47	57.04	10.66	143.70	122.86	8,003.78
Jun	630.10	1,008.21	1,638.30	632.92	1,272.08	3,447.48	197.51	284.09	14.90	58.12	14.85	161.73	121.97	7,843.97
Jul	632.85	1,055.44	1,688.29	654.79	1,298.88	3,569.16	209.15	281.81	26.56	59.36	12.37	158.78	126.44	8,085.59
Aug	639.47	1,053.32	1,692.78	657.43	1,311.18	3,491.66	212.47	290.67	20.50	59.78	4.95	155.32	128.44	8,025.20
Sep	620.52	1,010.38	1,630.90	633.54	1,284.31	3,290.45	189.83	316.31	13.86	59.25	7.05	129.31	127.47	7,682.29
Oct	652.41	1,080.61	1,733.02	662.86	1,259.64	3,322.52	208.09	271.46	11.86	61.69	11.61	147.97	132.27	7,822.98
Nov	584.44	936.31	1,520.75	597.43	1,191.41	3,024.30	187.06	252.05	5.98	57.71	8.43	136.30	130.67	7,112.09
Dec	547.10	859.50	1,406.59	570.59	1,054.22	2,697.13	179.35	223.31	20.60	55.05	6.95	127.66	131.80	6,473.26
YTD	7,404.77	11,905.03	19,309.80	7,476.60	14,793.40	39,603.55	2,425.15	3,140.78	281.46	689.34	92.84	1,789.21	1,543.63	91,145.76

Table 5.2-2M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2009													
Jan	565.98	857.77	1,423.76	559.00	1,012.74	2,645.18	185.16	217.87	38.06	52.57	136.52	137.20	6,415.08
Feb	582.13	868.02	1,450.14	572.53	1,073.55	2,696.21	197.70	241.22	44.72	56.96	134.47	125.39	6,605.24
Mar	741.10	1,071.14	1,812.24	697.72	1,252.51	3,169.72	229.80	296.80	45.88	59.31	148.03	136.79	7,854.73
Apr	759.14	1,087.27	1,846.41	688.93	1,172.86	2,861.58	230.68	253.39	33.13	55.00	144.00	130.01	7,440.26
May	757.00	1,104.30	1,861.30	705.17	1,287.67	3,242.55	218.46	281.66	20.17	57.35	153.43	132.08	7,962.87
Jun	659.89	1,081.07	1,740.96	673.76	1,232.23	3,327.83	209.67	311.00	18.99	57.40	128.82	129.38	7,833.90
Jul	663.72	1,111.74	1,775.46	685.09	1,263.37	3,392.40	219.89	296.08	24.07	55.27	129.98	132.07	7,983.46
Aug	672.80	1,150.15	1,822.95	704.73	1,311.17	3,430.48	228.57	318.80	26.00	57.67	131.21	135.60	8,171.14
Sep	657.39	1,101.44	1,758.83	688.93	1,279.43	3,384.41	213.14	351.11	16.94	55.77	124.32	89.61	7,969.59
Oct	671.01	1,117.39	1,788.40	690.54	1,288.38	3,565.09	222.62	288.76	10.16	56.67	122.97	140.57	8,180.39
Nov	612.56	1,041.81	1,654.37	661.27	1,245.02	3,350.52	210.11	279.23	12.21	54.05	126.28	139.67	7,738.24
Dec	573.93	968.47	1,542.41	634.95	1,246.36	3,292.63	223.61	252.45	27.52	52.98	145.80	142.77	7,565.51
YTD	7,916.66	12,560.58	20,477.24	7,962.63	14,665.28	38,358.60	2,589.40	3,388.37	317.86	670.99	1,625.82	1,571.14	91,720.40
2010													
Jan	624.57	1,026.87	1,651.43	665.04	1,222.39	3,392.13	236.31	266.29	43.65	55.68	145.29	147.91	7,830.84
Feb	616.07	1,012.34	1,628.41	654.38	1,216.95	3,352.76	239.13	282.31	48.48	55.05	130.20	135.89	7,745.96
Mar	738.03	1,209.03	1,947.06	761.76	1,414.30	3,806.29	267.67	306.24	55.49	63.27	142.72	144.42	8,913.45
Apr	800.67	1,307.21	2,107.89	783.30	1,333.73	3,436.32	272.36	293.57	42.42	64.02	133.67	139.74	8,610.07
May	817.98	1,404.17	2,222.15	827.12	1,450.94	3,806.40	268.27	333.12	27.34	80.89	150.84	140.92	9,311.98
Jun	702.40	1,301.50	2,003.90	765.09	1,391.45	3,670.77	239.25	348.73	27.45	75.17	142.81	136.22	8,804.45
Jul	679.60	1,296.09	1,975.69	759.76	1,402.83	3,799.91	247.79	347.09	30.43	61.61	147.38	145.65	8,928.66
Aug	649.42	1,235.31	1,884.73	726.55	1,374.60	3,786.53	242.97	316.43	11.57	59.38	136.65	144.50	8,690.60
Sep	633.15	1,195.15	1,828.31	707.14	1,367.99	3,723.77	233.82	340.64	8.52	60.04	120.52	133.62	8,529.01
Oct	663.11	1,226.26	1,889.38	731.38	1,332.42	3,890.23	239.97	305.52	9.46	62.61	133.92	152.73	8,755.54
Nov	587.22	1,062.04	1,649.26	655.85	1,276.93	3,691.60	220.43	271.30	9.62	59.19	127.60	145.47	8,126.95
Dec	607.74	1,104.63	1,712.37	689.29	1,276.79	3,643.38	239.39	280.24	20.87	64.93	130.78	153.89	8,222.58
YTD	8,119.97	14,380.59	22,500.56	8,726.67	16,061.32	44,000.09	2,947.36	3,691.49	335.29	761.84	1,642.39	1,720.98	102,470.08

Table 5.2-2M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total
	< 150 kWh	> 150 kWh											
2011													
Jan	597.69	1,035.20	1,632.88	658.04	1,211.71	3,649.61	235.92	255.47	46.87	62.00	2.77	137.36	8,049.24
Feb	586.59	986.34	1,572.93	632.33	1,192.51	3,585.07	240.14	258.04	54.53	60.46	7.22	125.21	7,870.06
Mar	710.54	1,180.22	1,890.76	746.45	1,366.54	3,982.76	255.78	290.16	47.47	70.04	4.73	151.37	8,958.77
Apr	725.02	1,151.77	1,876.79	713.83	1,271.10	3,541.98	257.08	258.76	36.92	64.37	4.93	132.20	8,304.58
May	779.03	1,297.68	2,076.71	791.58	1,434.36	3,870.56	267.18	301.58	14.96	70.77	6.54	138.87	9,121.26
Jun	716.39	1,262.89	1,979.28	772.28	1,414.95	3,855.72	250.29	342.71	14.23	71.74	3.13	132.55	8,978.61
Jul	723.39	1,296.71	2,020.10	781.81	1,400.91	3,989.61	264.80	340.16	20.69	70.71	8.60	141.53	9,185.49
Aug	693.09	1,305.64	1,998.73	773.07	1,408.80	3,994.37	264.13	334.40	10.78	68.90	11.07	139.21	9,154.90
Sep	676.93	1,276.45	1,953.37	747.48	1,345.59	4,007.53	248.17	378.03	5.74	66.06	6.02	130.33	9,041.50
Oct	686.50	1,280.28	1,966.78	744.66	1,254.46	3,595.73	249.61	286.16	5.62	65.08	8.03	131.43	8,458.06
Nov	659.23	1,226.20	1,885.43	721.99	1,151.44	3,203.12	249.15	281.71	10.92	62.34	3.85	124.32	7,857.84
Dec	624.49	1,196.40	1,820.88	718.25	1,169.54	3,354.68	237.35	267.81	27.98	66.07	1.67	134.11	7,967.08
YTD	8,178.87	14,495.78	22,674.65	8,801.77	15,621.92	44,630.74	3,019.61	3,594.99	296.71	798.54	68.57	1,618.49	102,947.38

Source : PEA

Table 5.2-3M
Electricity Consumption for the Whole Country (Classified by Tariff)

Month	Residential			Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total
	< 150 kWh	> 150 kWh	Total													
	2007															
Jan	559.35	1,339.43	1,912.23	939.21	1,744.90	4,228.74	304.92	290.13	31.92	49.31	0.36	166.39	133.52	9,801.64	172.21	9,973.85
Feb	543.20	1,396.11	1,954.59	956.15	1,707.15	4,056.65	296.04	297.29	36.92	50.19	1.90	154.90	126.89	9,638.67	154.87	9,793.54
Mar	698.60	1,766.40	2,486.21	1,157.14	2,058.94	4,704.22	368.04	358.79	37.63	54.66	4.25	192.08	132.16	11,554.12	174.65	11,728.77
Apr	730.67	1,805.87	2,556.70	1,145.36	1,866.34	4,185.33	356.64	333.05	33.08	53.89	5.19	177.42	131.77	10,844.77	189.56	11,034.33
May	721.81	1,747.44	2,491.49	1,148.46	1,964.94	4,689.34	339.68	343.23	12.56	52.57	6.62	162.37	128.87	11,340.13	176.10	11,516.23
Jun	686.36	1,843.80	2,551.85	1,186.08	2,007.73	4,613.24	344.17	399.97	16.45	54.69	2.35	161.97	126.81	11,465.31	160.70	11,626.01
Jul	655.62	1,729.44	2,403.10	1,135.61	1,909.06	4,691.27	341.67	393.18	27.91	53.61	2.20	187.53	130.54	11,275.69	180.42	11,456.11
Aug	656.62	1,762.10	2,439.96	1,140.46	1,915.15	4,737.04	351.09	380.30	22.25	55.14	2.79	181.57	134.05	11,359.80	185.97	11,545.77
Sep	635.10	1,748.50	2,402.25	1,136.08	1,904.69	4,663.78	336.46	410.13	10.72	55.75	3.19	169.40	136.52	11,228.98	166.49	11,395.47
Oct	641.80	1,696.66	2,357.42	1,119.41	1,887.01	4,769.86	334.71	353.57	8.79	56.42	3.38	160.32	141.49	11,192.40	179.24	11,371.64
Nov	617.65	1,589.19	2,222.45	1,076.54	1,842.32	4,578.68	316.46	333.94	11.09	55.57	3.28	165.68	145.64	10,751.67	177.75	10,929.42
Dec	596.74	1,547.43	2,159.74	1,066.45	1,817.70	4,399.73	338.50	336.20	18.43	56.91	2.64	188.29	154.96	10,539.55	202.13	10,741.68
YTD	7,743.53	19,972.36	27,937.98	13,206.94	22,625.94	54,317.90	4,028.38	4,229.80	267.77	648.70	38.16	2,067.92	1,623.24	130,992.73	2,120.09	133,112.81
2008																
Jan	591.75	1,557.11	2,164.65	1,064.52	1,809.34	4,548.50	345.04	326.99	35.78	51.20	3.21	163.77	159.02	10,672.02	174.41	10,846.43
Feb	586.62	1,575.65	2,178.41	1,069.04	1,780.01	4,406.08	332.05	330.36	35.29	55.10	2.58	165.08	153.22	10,507.20	175.39	10,682.60
Mar	661.17	1,716.13	2,395.06	1,146.19	2,010.57	4,947.90	381.24	355.00	43.28	58.49	4.10	158.97	144.61	11,645.42	204.67	11,850.09
Apr	732.48	1,934.89	2,688.77	1,208.67	1,843.46	4,445.73	378.97	342.60	38.38	56.55	6.10	140.62	141.34	11,291.17	180.62	11,471.79
May	705.47	1,820.86	2,546.26	1,193.01	2,005.93	4,911.99	371.02	357.16	14.47	57.04	10.66	143.70	142.59	11,753.82	180.24	11,934.06
Jun	664.41	1,771.02	2,454.20	1,173.21	1,963.39	4,789.84	353.23	400.81	14.90	58.12	14.85	161.73	141.10	11,525.38	195.72	11,721.09
Jul	664.95	1,815.74	2,498.38	1,192.18	1,985.88	4,913.78	367.27	394.77	26.56	59.36	12.37	158.78	146.25	11,755.58	188.44	11,944.02
Aug	671.97	1,828.99	2,522.13	1,208.53	2,003.58	4,857.70	373.65	410.60	20.50	59.78	4.95	155.32	148.30	11,765.04	216.26	11,981.30
Sep	652.46	1,767.99	2,438.56	1,170.35	1,945.54	4,561.39	337.56	426.59	13.86	59.25	7.05	129.31	146.76	11,236.22	174.46	11,410.67
Oct	685.14	1,845.64	2,550.14	1,205.97	1,931.73	4,637.58	363.87	384.90	11.86	61.69	11.61	147.97	152.28	11,459.59	157.72	11,617.31
Nov	614.14	1,607.51	2,235.92	1,086.42	1,811.30	4,197.64	327.27	354.22	5.98	57.71	8.43	136.30	150.08	10,371.29	141.64	10,512.93
Dec	573.85	1,430.92	2,018.72	1,011.60	1,616.15	3,779.45	303.29	307.58	20.60	55.05	6.95	127.66	151.89	9,398.95	149.05	9,547.99
YTD	7,804.40	20,672.45	28,691.22	13,729.70	22,706.90	54,997.57	4,234.45	4,391.56	281.46	689.34	92.84	1,789.21	1,777.43	133,381.68	2,138.61	135,520.29

Unit : GWh

Table 5.2-3M (Cont.)
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total	
	< 150 kWh	> 150 kWh														Total
2009																
Jan	593.13	1,412.86	2,019.32	986.39	1,541.27	3,694.52	311.01	299.81	38.06	52.57	136.52	157.71	9,244.20	144.61	9,388.82	
Feb	619.00	1,574.24	2,210.10	1,078.51	1,659.76	3,794.96	336.27	339.61	44.72	56.96	134.47	144.29	9,812.01	142.33	9,954.34	
Mar	785.64	1,887.71	2,689.30	1,267.64	1,924.25	4,408.10	392.43	408.38	45.88	59.31	148.03	158.16	11,507.41	143.81	11,651.21	
Apr	806.36	1,938.51	2,766.73	1,233.77	1,760.75	3,967.80	382.13	347.89	33.13	55.00	144.00	151.82	10,867.30	136.95	11,004.25	
May	798.43	1,920.35	2,740.12	1,261.67	1,944.91	4,477.22	373.16	390.78	20.17	57.35	153.43	154.34	11,576.18	172.27	11,748.45	
Jun	694.78	1,879.33	2,590.73	1,222.87	1,895.44	4,573.25	361.55	427.48	18.99	57.40	128.82	151.38	11,431.76	137.33	11,569.10	
Jul	696.69	1,891.39	2,609.81	1,226.53	1,938.25	4,665.70	373.47	411.85	24.07	55.27	129.98	155.27	11,599.98	149.99	11,749.97	
Aug	706.87	1,975.04	2,700.78	1,265.79	1,988.84	4,727.31	389.54	436.60	26.00	57.67	131.21	159.29	11,886.99	151.50	12,038.48	
Sep	691.15	1,914.74	2,625.49	1,243.44	1,943.09	4,640.26	364.60	468.04	16.94	55.77	124.32	113.02	11,602.06	138.06	11,740.12	
Oct	703.85	1,879.47	2,601.09	1,225.61	1,956.94	4,883.42	377.80	409.07	10.16	56.67	122.97	165.26	11,815.21	134.36	11,949.57	
Nov	643.81	1,779.38	2,438.46	1,180.63	1,887.84	4,595.70	350.69	385.84	12.21	54.05	126.28	164.05	11,201.27	136.61	11,337.88	
Dec	603.33	1,644.15	2,264.57	1,149.45	1,843.25	4,535.39	366.54	351.30	27.52	52.98	145.80	168.50	10,909.33	139.32	11,048.65	
YTD	8,343.04	21,697.18	30,256.50	14,342.30	22,284.59	52,963.64	4,379.21	4,676.62	317.86	670.99	93.07	1,625.82	133,453.70	1,727.13	135,180.83	
2010																
Jan	656.66	1,752.56	2,427.75	1,188.89	1,832.32	4,664.95	383.53	371.12	43.65	55.68	145.29	174.14	11,292.02	141.19	11,433.21	
Feb	651.24	1,795.46	2,464.57	1,213.87	1,820.90	4,624.03	384.71	391.16	48.48	55.05	130.20	159.62	11,294.98	135.14	11,430.12	
Mar	777.31	2,074.77	2,872.62	1,347.54	2,092.88	5,238.71	432.15	416.43	55.49	63.27	142.72	170.74	12,836.78	138.63	12,975.41	
Apr	844.20	2,267.38	3,134.39	1,381.43	1,949.49	4,697.12	428.39	399.27	42.42	64.02	133.67	166.10	12,399.37	148.36	12,547.72	
May	862.25	2,419.49	3,304.33	1,451.91	2,109.56	5,174.79	418.33	440.15	27.34	80.89	150.84	167.30	13,329.45	149.31	13,478.76	
Jun	740.32	2,244.42	3,007.30	1,378.59	2,072.08	5,088.83	391.84	476.14	27.45	75.17	142.81	161.78	12,825.61	142.64	12,968.25	
Jul	712.25	2,175.16	2,906.59	1,352.32	2,071.68	5,243.23	407.20	472.27	30.43	61.61	147.38	172.12	12,875.35	190.60	13,065.95	
Aug	679.67	2,063.09	2,761.56	1,296.06	2,019.43	5,189.75	392.53	441.20	11.57	59.38	136.65	171.05	12,485.87	145.97	12,631.84	
Sep	663.63	2,019.61	2,701.78	1,281.55	2,024.36	5,134.80	382.66	464.50	8.52	60.04	120.52	159.35	12,342.72	152.03	12,494.74	
Oct	693.55	2,000.14	2,709.98	1,281.78	1,969.26	5,283.38	385.91	415.56	9.46	62.61	133.92	179.44	12,439.20	143.62	12,582.82	
Nov	617.23	1,804.18	2,436.59	1,187.91	1,894.27	5,042.80	358.82	374.05	9.62	59.19	127.60	171.35	11,681.89	141.78	11,823.67	
Dec	638.00	1,833.96	2,489.04	1,224.00	1,891.03	4,943.63	383.87	387.53	20.87	64.93	130.78	180.69	11,727.01	141.64	11,868.64	
YTD	8,536.32	24,450.21	33,216.49	15,585.85	23,747.26	60,326.02	4,749.93	5,049.39	335.29	761.84	82.09	1,642.39	2,033.69	147,530.24	1,770.89	149,301.13

Table 5.2-3M (Cont.)
Electricity Consumption for the Whole Country (Classified by Tariff)

Unit : GWh

Month	Residential		Small General Service	Medium General Service	Large General Service	Specific Business	Government and Non-Profit	Agriculture Pumping	Temporary	Stand By Rate	Interruptible Rate	Free of Charge	Total	Direct Customer	Grand Total	
	< 150 kWh	> 150 kWh														
	Total															
2011																
Jan	627.40	1,699.12	2,340.05	1,156.94	1,795.35	4,959.24	367.93	347.90	46.87	62.00	2.77	137.36	183.49	11,399.91	144.46	11,544.37
Feb	620.56	1,723.65	2,360.22	1,162.93	1,780.84	4,872.64	376.10	354.11	54.53	60.46	7.22	125.21	165.96	11,320.22	129.72	11,449.94
Mar	747.01	1,933.66	2,697.40	1,284.66	2,028.97	5,425.40	400.12	392.67	47.47	70.04	4.73	151.37	186.89	12,689.71	132.97	12,822.68
Apr	765.44	1,958.71	2,741.36	1,251.24	1,852.54	4,828.62	401.62	348.20	36.92	64.37	4.93	132.20	175.12	11,837.13	140.27	11,977.40
May	822.32	2,203.76	3,045.57	1,396.44	2,100.38	5,310.10	426.20	413.51	14.96	70.77	6.54	138.87	177.65	13,100.99	150.85	13,251.84
Jun	756.60	2,137.51	2,912.87	1,375.34	2,090.88	5,311.26	405.47	467.35	14.23	71.74	3.13	132.55	170.65	12,955.48	134.45	13,089.93
Jul	760.19	2,154.08	2,932.90	1,370.25	2,068.87	5,436.08	419.76	461.11	20.69	70.73	8.60	141.53	176.32	13,106.86	148.36	13,255.21
Aug	727.80	2,155.92	2,901.32	1,361.35	2,072.76	5,431.33	421.30	456.42	10.78	70.57	11.07	139.21	181.20	13,057.31	154.13	13,211.44
Sep	710.92	2,111.14	2,839.45	1,327.19	2,017.60	5,486.31	403.15	496.65	5.74	72.94	6.02	130.33	179.45	12,964.83	148.06	13,112.89
Oct	719.02	2,062.58	2,799.15	1,300.83	1,864.04	4,966.21	403.99	397.37	5.62	74.38	8.03	131.43	180.29	12,131.34	146.05	12,277.39
Nov	691.46	1,996.78	2,705.22	1,252.19	1,701.89	4,449.46	399.78	389.63	10.92	73.22	3.85	124.32	192.79	11,303.27	137.30	11,440.57
Dec	652.65	1,857.46	2,523.94	1,206.83	1,742.35	4,623.05	373.87	363.29	27.98	79.41	1.67	134.11	198.58	11,275.08	146.74	11,421.82
YTD	8,601.35	23,994.39	32,799.46	15,446.19	23,116.47	61,099.69	4,799.31	4,888.22	296.71	840.63	68.57	1,618.49	2,168.39	147,142.13	1,713.36	148,855.49

Source : MEA, PEA and EGAT

Table 5.2-4M

Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2007										
Jan	604.40	439.97	814.25	1,099.00	89.22	0.00	49.30	3,096.14	18.42	3,114.56
Feb	674.37	464.07	775.09	1,062.19	90.91	0.00	54.77	3,121.40	16.69	3,138.10
Mar	852.07	551.83	943.12	1,247.19	104.91	0.00	65.67	3,764.79	18.59	3,783.37
Apr	859.27	530.71	901.01	1,062.59	91.48	0.00	60.67	3,505.74	18.11	3,523.86
May	830.26	536.69	925.36	1,210.37	102.92	0.00	51.88	3,657.49	18.74	3,676.24
Jun	873.03	559.95	957.57	1,200.00	117.92	0.00	44.57	3,753.04	18.23	3,771.28
Jul	782.47	521.66	931.20	1,182.06	110.55	0.00	43.87	3,571.81	18.96	3,590.77
Aug	800.72	526.30	941.44	1,174.67	108.52	0.00	59.30	3,610.95	19.11	3,630.06
Sep	811.44	534.84	923.02	1,183.24	111.36	0.00	32.87	3,596.77	18.59	3,615.36
Oct	766.53	516.35	919.39	1,185.45	96.78	0.00	48.24	3,532.74	19.27	3,552.01
Nov	691.96	484.53	860.73	1,159.25	96.99	0.00	34.84	3,328.30	18.73	3,347.03
Dec	683.89	483.42	875.06	1,097.45	93.17	0.00	40.35	3,273.34	19.44	3,292.78
YTD	9,230.43	6,150.31	10,767.25	13,863.48	1,214.71	0.00	586.34	41,812.53	222.88	42,035.41
2008										
Jan	707.48	491.41	882.96	1,122.89	94.51	0.00	61.32	3,360.58	19.49	3,380.06
Feb	715.97	493.14	849.22	1,106.33	94.58	0.00	43.65	3,302.89	18.29	3,321.18
Mar	805.01	535.02	958.36	1,251.03	102.68	0.00	40.27	3,692.37	19.64	3,712.02
Apr	900.30	546.70	928.33	1,072.98	93.81	0.00	44.76	3,586.88	19.06	3,605.94
May	845.24	548.11	954.41	1,219.63	105.44	0.00	57.49	3,730.32	19.73	3,750.04
Jun	815.90	540.29	953.04	1,207.94	116.72	0.00	28.40	3,662.28	19.13	3,681.41
Jul	810.09	537.39	946.38	1,204.88	112.96	0.00	38.47	3,650.18	19.81	3,669.99
Aug	829.35	551.11	970.47	1,164.17	119.93	0.00	84.96	3,719.99	19.86	3,739.84
Sep	807.66	536.81	929.88	1,126.22	110.28	0.00	23.81	3,534.65	19.28	3,553.93
Oct	817.12	543.11	957.05	1,125.96	113.44	0.00	59.93	3,616.60	20.01	3,636.61
Nov	715.17	488.99	873.99	1,038.81	102.17	0.00	20.64	3,239.78	19.41	3,259.19
Dec	612.13	441.01	816.12	905.61	84.27	0.00	46.46	2,905.60	20.09	2,925.69
YTD	9,381.42	6,253.09	11,020.20	13,546.46	1,250.78	0.00	550.16	42,002.11	233.80	42,235.91

Table 5.2-4M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2009										
Jan	595.56	427.39	797.04	862.17	81.93	0.00	44.51	2,808.61	20.51	2,829.12
Feb	759.95	505.98	850.11	931.05	98.38	0.00	42.39	3,187.87	18.91	3,206.77
Mar	877.06	569.92	975.28	1,046.66	111.58	0.00	50.81	3,631.31	21.37	3,652.68
Apr	920.31	544.84	900.10	896.18	94.50	0.00	49.29	3,405.23	21.81	3,427.04
May	878.82	556.50	934.15	1,056.79	109.12	0.00	55.67	3,591.05	22.27	3,613.31
Jun	849.78	549.11	937.64	1,066.48	116.47	0.00	56.38	3,575.87	22.00	3,597.87
Jul	834.35	541.43	938.57	1,089.65	115.76	0.00	73.54	3,593.31	23.21	3,616.52
Aug	877.83	561.05	966.30	1,087.06	117.81	0.00	82.11	3,692.16	23.69	3,715.85
Sep	866.66	554.51	937.32	1,090.80	116.93	0.00	42.85	3,609.07	23.40	3,632.47
Oct	812.69	535.06	940.11	1,130.40	120.31	0.00	71.55	3,610.13	24.69	3,634.82
Nov	784.09	519.36	880.28	1,074.75	106.61	0.00	73.56	3,438.64	24.39	3,463.03
Dec	722.16	514.50	894.18	1,037.37	98.85	0.00	51.04	3,318.09	25.73	3,343.82
YTD	9,779.26	6,379.67	10,951.08	12,369.37	1,288.25	0.00	693.71	41,461.34	271.96	41,733.30
2010										
Jan	776.32	523.86	918.08	1,061.24	104.82	0.00	50.64	3,434.95	26.23	3,461.18
Feb	836.16	559.48	937.16	1,077.50	108.85	0.00	6.14	3,525.29	23.73	3,549.02
Mar	925.56	585.78	997.54	1,226.47	110.19	0.00	51.48	3,897.01	26.32	3,923.33
Apr	1,026.50	598.13	942.45	1,041.62	105.70	0.00	48.53	3,762.93	26.37	3,789.30
May	1,082.18	624.80	937.07	1,197.73	107.04	0.00	42.28	3,991.09	26.38	4,017.47
Jun	1,003.40	613.49	993.15	1,208.76	127.41	0.00	49.38	3,995.59	25.56	4,021.16
Jul	930.91	592.56	1,015.46	1,209.74	125.18	0.00	46.38	3,920.22	26.47	3,946.69
Aug	876.83	569.51	972.26	1,177.79	124.77	0.00	47.56	3,768.73	26.54	3,795.27
Sep	873.47	574.41	984.88	1,185.27	123.86	0.00	46.09	3,787.97	25.73	3,813.71
Oct	820.60	550.39	943.68	1,178.85	110.04	0.00	53.40	3,656.96	26.70	3,683.66
Nov	787.33	532.06	913.76	1,141.66	102.75	0.00	51.51	3,529.06	25.88	3,554.94
Dec	776.67	534.71	933.69	1,072.14	107.29	0.00	53.13	3,477.63	26.80	3,504.43
YTD	10,715.93	6,859.18	11,489.17	13,778.76	1,357.89	0.00	546.51	44,747.45	312.71	45,060.16

Table 5.2-4M (Cont.)
Electricity Consumption in MEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2011										
Jan	707.16	498.90	878.78	1,097.08	92.43	0.00	49.41	3,323.77	26.89	3,350.67
Feb	787.29	530.59	878.02	1,083.01	96.08	0.00	50.83	3,425.83	24.33	3,450.16
Mar	806.64	538.21	970.61	1,235.00	102.51	0.00	43.80	3,696.77	34.18	3,730.94
Apr	864.57	537.41	943.69	1,034.12	89.44	0.00	34.81	3,504.05	28.50	3,532.55
May	968.86	604.87	1,039.92	1,188.73	111.92	0.00	35.92	3,950.22	29.51	3,979.73
Jun	933.59	603.06	1,044.31	1,189.34	124.64	0.00	53.00	3,947.94	28.93	3,976.87
Jul	912.80	588.44	1,023.41	1,190.74	120.96	0.00	55.26	3,891.61	29.76	3,921.37
Aug	902.59	588.27	1,025.24	1,178.77	122.02	0.00	55.76	3,872.66	29.75	3,902.41
Sep	886.08	579.71	1,034.63	1,219.19	118.62	0.00	58.82	3,897.05	26.28	3,923.33
Oct	832.37	556.17	1,008.51	1,097.21	111.21	0.00	38.01	3,643.49	29.80	3,673.29
Nov	819.79	530.21	928.87	1,017.35	107.93	0.00	12.07	3,416.20	29.23	3,445.43
Dec	703.06	488.58	907.87	1,027.18	95.48	0.00	56.00	3,278.16	29.84	3,308.00
YTD	10,124.80	6,644.43	11,683.86	13,557.72	1,293.24	0.00	543.70	43,847.75	346.99	44,194.74

Source : MEA

Table 5.2-5M
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2007										
Jan	1,307.83	499.25	639.08	3,837.52	200.91	31.92	55.47	6,571.98	115.11	6,687.08
Feb	1,280.22	492.09	613.54	3,704.81	206.39	36.92	56.40	6,390.37	110.20	6,500.57
Mar	1,634.13	605.30	752.48	4,310.87	253.88	37.63	62.86	7,657.17	113.57	7,770.74
Apr	1,697.43	614.64	731.24	3,830.63	241.57	33.08	58.66	7,207.26	113.66	7,320.92
May	1,661.23	611.77	728.31	4,241.55	240.30	12.56	58.04	7,553.77	110.13	7,663.89
Jun	1,678.82	626.13	753.54	4,169.14	282.06	16.45	59.34	7,585.46	108.58	7,694.04
Jul	1,620.63	613.95	748.96	4,221.98	282.64	27.91	57.27	7,573.34	111.58	7,684.92
Aug	1,639.23	614.16	756.59	4,250.90	271.78	22.25	59.87	7,614.79	114.95	7,729.74
Sep	1,590.80	601.24	741.77	4,191.16	298.77	10.72	61.22	7,495.69	117.92	7,613.61
Oct	1,590.89	603.06	730.95	4,264.68	256.80	8.79	63.00	7,518.17	122.23	7,640.39
Nov	1,530.48	592.01	694.35	4,148.22	236.95	11.09	64.62	7,277.72	126.91	7,404.63
Dec	1,475.85	583.03	729.53	4,000.70	243.03	18.43	60.67	7,111.25	135.52	7,246.77
YTD	18,707.55	7,056.63	8,620.35	49,172.17	3,015.08	267.77	717.41	87,556.96	1,400.35	88,957.32
2008										
Jan	1,457.17	573.10	739.40	4,059.72	232.48	35.78	54.78	7,152.42	139.53	7,291.96
Feb	1,462.44	575.90	717.92	3,965.26	235.78	35.29	58.51	7,051.09	134.93	7,186.02
Mar	1,590.05	611.17	811.45	4,437.52	252.32	43.28	62.64	7,808.43	124.97	7,933.40
Apr	1,788.47	661.97	814.26	3,949.60	248.79	38.38	61.50	7,562.96	122.27	7,685.23
May	1,701.03	644.89	812.87	4,394.59	251.72	14.47	61.35	7,880.92	122.86	8,003.78
Jun	1,638.30	632.92	805.02	4,283.14	284.09	14.90	63.61	7,721.99	121.97	7,843.97
Jul	1,688.29	654.79	839.98	4,402.09	281.81	26.56	65.63	7,959.15	126.44	8,085.59
Aug	1,692.78	657.43	857.27	4,312.47	290.67	20.50	65.63	7,896.76	128.44	8,025.20
Sep	1,630.90	633.54	800.70	4,094.30	316.31	13.86	65.19	7,554.81	127.47	7,682.29
Oct	1,733.02	662.86	806.28	4,086.10	271.46	11.86	119.13	7,690.71	132.27	7,822.98
Nov	1,520.75	597.43	739.47	3,748.91	252.05	5.98	116.83	6,981.42	130.67	7,112.09
Dec	1,406.59	570.59	689.26	3,326.67	223.31	20.60	104.44	6,341.46	131.80	6,473.26
YTD	19,309.80	7,476.60	9,433.90	49,060.36	3,140.78	281.46	899.23	89,602.13	1,543.63	91,145.76

Table 5.2-5M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2009										
Jan	1,423.76	559.00	699.36	3,260.19	217.87	38.06	79.64	6,277.88	137.20	6,415.08
Feb	1,450.14	572.53	736.54	3,357.86	241.22	44.72	76.83	6,479.85	125.39	6,605.24
Mar	1,812.24	697.72	855.07	3,942.25	296.80	45.88	67.98	7,717.94	136.79	7,854.73
Apr	1,846.41	688.93	832.01	3,585.08	253.39	33.13	71.28	7,310.24	130.01	7,440.26
May	1,861.30	705.17	848.36	4,041.40	281.66	20.17	72.72	7,830.79	132.08	7,962.87
Jun	1,740.96	673.76	857.81	4,036.65	311.00	18.99	65.35	7,704.51	129.38	7,833.90
Jul	1,775.46	685.09	868.80	4,131.93	296.08	24.07	69.95	7,851.40	132.07	7,983.46
Aug	1,822.95	704.73	894.87	4,205.95	318.80	26.00	62.23	8,035.53	135.60	8,171.14
Sep	1,758.83	688.93	854.41	4,143.98	351.11	16.94	65.77	7,879.97	89.61	7,969.59
Oct	1,788.40	690.54	865.96	4,326.99	288.76	10.16	69.01	8,039.82	140.57	8,180.39
Nov	1,654.37	661.27	817.71	4,113.87	279.23	12.21	59.92	7,598.58	139.67	7,738.24
Dec	1,542.41	634.95	842.16	4,047.97	252.45	27.52	75.28	7,422.74	142.77	7,565.51
YTD	20,477.24	7,962.63	9,973.04	47,194.14	3,388.37	317.86	835.97	90,149.26	1,571.14	91,720.40
2010										
Jan	1,651.43	665.04	852.99	4,076.12	266.29	43.65	127.39	7,682.92	147.91	7,830.84
Feb	1,628.41	654.38	848.29	4,015.62	282.31	48.48	132.58	7,610.07	135.89	7,745.96
Mar	1,947.06	761.76	961.28	4,614.01	306.24	55.49	123.19	8,769.03	144.42	8,913.45
Apr	2,107.89	783.30	966.02	4,156.93	293.57	42.42	120.20	8,470.33	139.74	8,610.07
May	2,222.15	827.12	992.58	4,621.07	333.12	27.34	147.69	9,171.06	140.92	9,311.98
Jun	2,003.90	765.09	947.37	4,409.59	348.73	27.45	166.10	8,668.23	136.22	8,804.45
Jul	1,975.69	759.76	1,032.42	4,573.95	347.09	30.43	63.68	8,783.01	145.65	8,928.66
Aug	1,884.73	726.55	941.16	4,510.99	316.43	11.57	154.68	8,546.10	144.50	8,690.60
Sep	1,828.31	707.14	935.83	4,448.08	340.64	8.52	126.87	8,395.39	133.62	8,529.01
Oct	1,889.38	731.38	914.12	4,623.81	305.52	9.46	129.13	8,602.80	152.73	8,755.54
Nov	1,649.26	655.85	865.75	4,378.91	271.30	9.62	150.78	7,981.48	145.47	8,126.95
Dec	1,712.37	689.29	899.02	4,332.29	280.24	20.87	134.60	8,068.68	153.89	8,222.58
YTD	22,500.56	8,726.67	11,156.83	52,761.37	3,691.49	335.29	1,576.89	100,749.10	1,720.98	102,470.08

Table 5.2-5M (Cont.)
Electricity Consumption in PEA Service Areas (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2011										
Jan	1,632.88	658.04	867.35	4,289.64	255.47	46.87	142.40	7,892.64	156.60	8,049.24
Feb	1,572.93	632.33	870.61	4,233.80	258.04	54.53	106.19	7,728.44	141.63	7,870.06
Mar	1,890.76	746.45	959.86	4,749.92	290.16	47.47	121.45	8,806.06	152.71	8,958.77
Apr	1,876.79	713.83	937.71	4,237.49	258.76	36.92	96.46	8,157.96	146.62	8,304.58
May	2,076.71	791.58	1,016.01	4,672.00	301.58	14.96	100.28	8,973.12	148.14	9,121.26
Jun	1,979.28	772.28	1,001.53	4,622.61	342.71	14.23	104.25	8,836.89	141.72	8,978.61
Jul	2,020.10	781.81	1,007.02	4,746.51	340.16	20.69	122.63	9,038.92	146.56	9,185.49
Aug	1,998.73	773.07	1,012.21	4,750.57	334.40	10.78	123.68	9,003.45	151.45	9,154.90
Sep	1,953.37	747.48	998.88	4,724.61	378.03	5.74	80.21	8,888.33	153.17	9,041.50
Oct	1,966.78	744.66	1,006.21	4,220.22	286.16	5.62	77.93	8,307.57	150.49	8,458.06
Nov	1,885.43	721.99	998.54	3,688.32	281.71	10.92	107.37	7,694.28	163.56	7,857.84
Dec	1,820.88	718.25	910.63	3,938.91	267.81	27.98	113.87	7,798.34	168.74	7,967.08
YTD	22,674.65	8,801.77	11,586.56	52,874.60	3,594.99	296.71	1,296.71	101,125.99	1,821.40	102,947.38

Source : PEA

Table 5.2-6M Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2007										
Jan	1,912.23	939.21	1,503.51	5,058.56	290.13	31.92	104.77	9,840.33	133.52	9,973.85
Feb	1,954.59	956.15	1,435.44	4,875.07	297.29	36.92	111.18	9,666.65	126.89	9,793.54
Mar	2,486.21	1,157.14	1,749.72	5,678.59	358.79	37.63	128.53	11,596.61	132.16	11,728.77
Apr	2,556.70	1,145.36	1,678.54	5,036.50	333.05	33.08	119.33	10,902.56	131.77	11,034.33
May	2,491.49	1,148.46	1,697.58	5,584.11	343.23	12.56	109.93	11,387.35	128.87	11,516.23
Jun	2,551.85	1,186.08	1,763.00	5,477.95	399.97	16.45	103.90	11,499.20	126.81	11,626.01
Jul	2,403.10	1,135.61	1,733.62	5,531.00	393.18	27.91	101.14	11,325.57	130.54	11,456.11
Aug	2,439.96	1,140.46	1,745.94	5,563.64	380.30	22.25	119.18	11,411.72	134.05	11,545.77
Sep	2,402.25	1,136.08	1,713.21	5,492.47	410.13	10.72	94.09	11,258.95	136.52	11,395.47
Oct	2,357.42	1,119.41	1,703.82	5,575.88	353.57	8.79	111.24	11,230.14	141.49	11,371.64
Nov	2,222.45	1,076.54	1,608.67	5,431.63	333.94	11.09	99.46	10,783.78	145.64	10,929.42
Dec	2,159.74	1,066.45	1,657.66	5,247.21	336.20	18.43	101.02	10,586.72	154.96	10,741.68
YTD	27,937.98	13,206.94	19,990.72	64,552.61	4,229.80	267.77	1,303.76	131,489.58	1,623.24	133,112.81
2008										
Jan	2,164.65	1,064.52	1,670.10	5,309.28	326.99	35.78	116.09	10,687.41	159.02	10,846.43
Feb	2,178.41	1,069.04	1,616.60	5,197.53	330.36	35.29	102.16	10,529.38	153.22	10,682.60
Mar	2,395.06	1,146.19	1,825.95	5,837.08	355.00	43.28	102.92	11,705.47	144.61	11,850.09
Apr	2,688.77	1,208.67	1,793.93	5,151.86	342.60	38.38	106.25	11,330.45	141.34	11,471.79
May	2,546.26	1,193.01	1,820.25	5,741.49	357.16	14.47	118.84	11,791.48	142.59	11,934.06
Jun	2,454.20	1,173.21	1,811.33	5,633.53	400.81	14.90	92.01	11,580.00	141.10	11,721.09
Jul	2,498.38	1,192.18	1,840.26	5,741.52	394.77	26.56	104.10	11,797.77	146.25	11,944.02
Aug	2,522.13	1,208.53	1,879.50	5,641.14	410.60	20.50	150.60	11,833.01	148.30	11,981.30
Sep	2,438.56	1,170.35	1,777.04	5,348.51	426.59	13.86	88.99	11,263.92	146.76	11,410.67
Oct	2,550.14	1,205.97	1,808.66	5,324.44	384.90	11.86	179.06	11,465.03	152.28	11,617.31
Nov	2,235.92	1,086.42	1,657.92	4,884.90	354.22	5.98	137.47	10,362.84	150.08	10,512.93
Dec	2,018.72	1,011.60	1,550.36	4,336.35	307.58	20.60	150.89	9,396.10	151.89	9,547.99
YTD	28,691.22	13,729.70	21,051.91	64,147.63	4,391.56	281.46	1,449.39	133,742.86	1,777.43	135,520.29

Table 5.2-6M (Cont.)
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2009										
Jan	2,019.32	986.39	1,539.47	4,223.91	299.81	38.06	124.15	9,231.11	157.71	9,388.82
Feb	2,210.10	1,078.51	1,630.29	4,387.59	339.61	44.72	119.22	9,810.05	144.29	9,954.34
Mar	2,689.30	1,267.64	1,872.76	5,090.32	408.38	45.88	118.78	11,493.05	158.16	11,651.21
Apr	2,766.73	1,233.77	1,768.32	4,582.00	347.89	33.13	120.58	10,852.42	151.82	11,004.25
May	2,740.12	1,261.67	1,818.56	5,234.41	390.78	20.17	128.39	11,594.11	154.34	11,748.45
Jun	2,590.73	1,222.87	1,830.19	5,205.72	427.48	18.99	121.73	11,417.72	151.38	11,569.10
Jul	2,609.81	1,226.53	1,841.47	5,337.48	411.85	24.07	143.49	11,594.69	155.27	11,749.97
Aug	2,700.78	1,265.79	1,896.21	5,409.47	436.60	26.00	144.34	11,879.19	159.29	12,038.48
Sep	2,625.49	1,243.44	1,820.72	5,343.85	468.04	16.94	108.62	11,627.10	113.02	11,740.12
Oct	2,601.09	1,225.61	1,834.32	5,563.51	409.07	10.16	140.56	11,784.31	165.26	11,949.57
Nov	2,438.46	1,180.63	1,724.97	5,298.23	385.84	12.21	133.48	11,173.83	164.05	11,337.88
Dec	2,264.57	1,149.45	1,763.96	5,197.04	351.30	27.52	126.32	10,880.15	168.50	11,048.65
YTD	30,256.50	14,342.30	21,341.24	60,873.53	4,676.62	317.86	1,529.67	133,337.73	1,843.11	135,180.83
2010										
Jan	2,427.75	1,188.89	1,799.34	5,250.28	371.12	43.65	178.04	11,259.07	174.14	11,433.21
Feb	2,464.57	1,213.87	1,812.60	5,201.10	391.16	48.48	138.72	11,270.50	159.62	11,430.12
Mar	2,872.62	1,347.54	1,989.99	5,947.93	416.43	55.49	174.67	12,804.67	170.74	12,975.41
Apr	3,134.39	1,381.43	1,940.31	5,315.06	399.27	42.42	168.73	12,381.62	166.10	12,547.72
May	3,304.33	1,451.91	1,963.63	5,934.12	440.15	27.34	189.97	13,311.45	167.30	13,478.76
Jun	3,007.30	1,378.59	1,971.92	5,729.60	476.14	27.45	215.48	12,806.47	161.78	12,968.25
Jul	2,906.59	1,352.32	2,078.71	5,943.46	472.27	30.43	110.06	12,893.83	172.12	13,065.95
Aug	2,761.56	1,296.06	1,943.32	5,804.85	441.20	11.57	202.24	12,460.79	171.05	12,631.84
Sep	2,701.78	1,281.55	1,950.22	5,755.87	464.50	8.52	172.95	12,335.39	159.35	12,494.74
Oct	2,709.98	1,281.78	1,886.98	5,917.09	415.56	9.46	182.53	12,403.39	179.44	12,582.82
Nov	2,436.59	1,187.91	1,807.05	5,634.80	374.05	9.62	202.29	11,652.32	171.35	11,823.67
Dec	2,489.04	1,224.00	1,860.45	5,518.33	387.53	20.87	187.73	11,687.95	180.69	11,868.64
YTD	33,216.49	15,585.85	23,004.54	67,952.49	5,049.39	335.29	2,123.40	147,267.44	2,033.69	149,301.13

Table 5.2-6M (Cont.)
Electricity Consumption for the Whole Country (Classified by Sector)

Unit : GWh

Month	Residential	Small General Service	Business	Industrial	Government and Non-Profit	Agriculture	Other	Total	Free of Charge	Grand Total
2011										
Jan	2,340.05	1,156.94	1,773.37	5,503.94	347.90	46.87	191.80	11,360.88	183.49	11,544.37
Feb	2,360.22	1,162.93	1,775.22	5,419.94	354.11	54.53	157.02	11,283.98	165.96	11,449.94
Mar	2,697.40	1,284.66	1,958.60	6,089.75	392.67	47.47	165.25	12,635.79	186.89	12,822.68
Apr	2,741.36	1,251.24	1,910.74	5,382.54	348.20	36.92	131.27	11,802.28	175.12	11,977.40
May	3,045.57	1,396.44	2,088.97	5,978.54	413.51	14.96	136.20	13,074.19	177.65	13,251.84
Jun	2,912.87	1,375.34	2,076.75	5,915.48	467.35	14.23	157.25	12,919.28	170.65	13,089.93
Jul	2,932.90	1,370.25	2,062.12	6,053.92	461.11	20.69	177.89	13,078.89	176.32	13,255.21
Aug	2,901.32	1,361.35	2,069.00	6,051.93	456.42	10.78	179.45	13,030.24	181.20	13,211.44
Sep	2,839.45	1,327.19	2,064.22	6,061.16	496.65	5.74	139.03	12,933.44	179.45	13,112.89
Oct	2,799.15	1,300.83	2,046.16	5,432.04	397.37	5.62	115.94	12,097.11	180.29	12,277.39
Nov	2,705.22	1,252.19	1,959.67	4,810.71	389.63	10.92	119.44	11,247.78	192.79	11,440.57
Dec	2,523.94	1,206.83	1,846.38	5,084.96	363.29	27.98	169.86	11,223.24	198.58	11,421.82
YTD	32,799.46	15,446.19	23,631.20	67,784.91	4,888.22	296.71	1,840.41	146,687.10	2,168.39	148,855.49

Source : MEA, PEA and EGAT

Table 5.3-1M
EGAT Fuel Consumption in Power Generation

2007												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.6	0.6	0.5	0.8	0.8	0.7	0.4	0.8	0.4	0.7	8.0
Fuel Oil	M.Litres	4.7	25.2	65.1	70.2	48.7	64.2	7.2	102.3	125.7	105.2	780.5
Natural Gas	MMSCF	47,042.8	46,251.4	59,715.4	52,733.4	58,406.6	56,536.9	54,111.4	53,806.3	51,598.1	51,733.1	625,832.6
Lignite	1,000 Tons	1,314.9	1,209.5	1,323.7	1,084.9	1,265.7	1,281.6	1,491.6	1,493.1	1,381.6	1,293.1	15,811.1
2008												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.7	0.7	0.9	1.6	0.4	0.6	0.4	0.5	0.5	0.4	7.7
Fuel Oil	M.Litres	1.1	23.0	107.3	82.6	22.2	1.1	0.4	4.3	7.2		249.3
Natural Gas	MMSCF	46,376.6	45,430.7	47,431.0	47,203.7	51,307.7	47,249.4	51,002.5	52,394.2	47,515.2	47,982.3	570,194.4
Lignite	1,000 Tons	1,317.9	1,291.5	1,354.5	1,414.5	1,491.4	1,372.2	1,262.5	1,334.4	1,386.0	1,337.5	16,407.5
2009												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.6	0.4	3.2	1.8	2.0	0.4	0.6	0.2	0.9	0.6	12.9
Fuel Oil	M.Litres	8.1				0.4	1.8	0.5	36.8	1.2	44.7	111.0
Natural Gas	MMSCF	34,264.8	40,718.7	48,342.7	47,123.1	49,910.8	48,557.0	46,058.1	49,007.3	50,027.5	52,541.7	562,364.2
Lignite	1,000 Tons	1,461.5	1,144.9	1,255.1	1,313.5	1,370.3	1,463.2	1,451.5	1,304.1	1,243.9	1,287.7	15,818.3
2010												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.8	1.0	1.8	1.1	0.8	0.8	2.5	0.5	0.7	0.7	12.4
Fuel Oil	M.Litres	4.1	0.7	39.0	5.1	12.7	6.1	41.0	13.7	9.6	2.0	140.1
Natural Gas	MMSCF	46,907.1	49,609.5	60,629.3	54,999.0	61,699.7	62,726.2	59,237.1	57,000.7	58,308.2	61,853.9	685,938.3
Lignite	1,000 Tons	1,363.2	1,161.7	1,370.2	1,427.2	1,482.3	1,257.5	1,278.1	1,370.7	1,219.7	1,340.6	16,004.2
2011												
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Diesel	M.Litres	0.4	0.4	0.6	0.6	0.4	2.3	2.0	1.0	0.5	0.9	11.1
Fuel Oil	M.Litres	7.3	7.9		25.9	24.0	54.7	68.4	31.3	64.5	15.8	314.4
Natural Gas	MMSCF	45,545.5	48,152.4	51,638.5	46,356.2	53,092.3	49,834.7	49,592.2	51,522.2	48,171.2	46,163.4	580,564.4
Lignite	1,000 Tons	1,491.9	1,350.2	1,524.4	1,453.6	1,552.5	1,490.7	1,537.6	1,393.3	1,344.1	1,391.1	17,161.2

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.4-1M
Import of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1987	35.75	29.89	31.36	28.55	27.48	31.62	17.54	24.46	0.14	46.84	48.70	64.92	387.25
1988	42.98	41.80	29.84	27.20	26.46	31.11	23.65	35.73	27.84	33.39	25.27	18.33	363.61
1989	19.48	17.30	17.43	16.83	20.10	32.86	44.45	54.88	83.36	72.97	59.03	51.85	490.54
1990	60.18	46.72	43.27	30.06	23.14	41.15	53.97	62.17	56.26	65.95	56.41	60.21	599.50
1991	40.98	42.69	41.99	55.24	35.24	40.22	69.66	85.75	56.57	50.27	49.49	25.00	593.11
1992	23.44	35.23	21.03	29.11	34.38	46.55	69.72	75.39	50.58	47.08	27.64	19.73	479.88
1993	22.76	15.83	20.70	24.69	31.91	45.45	77.84	116.29	120.09	82.62	37.28	49.06	644.51
1994	47.31	42.80	47.61	42.14	50.38	60.65	103.99	116.49	120.69	113.87	64.51	60.39	870.82
1995	44.81	46.85	40.29	38.78	39.00	41.04	54.34	93.07	104.83	83.30	57.68	55.13	699.12
1996	40.48	43.77	35.38	33.81	38.92	54.63	64.62	99.19	114.07	113.68	81.43	85.64	805.61
1997	45.76	40.48	32.41	43.66	44.02	42.26	69.28	99.79	104.66	105.17	66.29	51.87	745.63
1998	71.99	102.90	87.18	92.21	101.40	181.12	197.53	151.91	191.39	174.34	130.02	140.71	1,622.71
1999	102.68	63.18	61.91	76.95	177.15	199.06	241.72	258.48	277.66	283.14	262.92	250.83	2,255.66
2000	176.64	137.87	167.36	192.37	294.32	267.33	301.01	320.31	336.51	298.65	246.17	227.72	2,966.26
2001	206.11	158.36	171.13	138.52	205.79	279.94	318.69	316.53	312.74	302.73	257.96	213.27	2,881.76
2002	190.30	149.19	146.50	163.46	221.70	271.79	301.33	313.36	289.41	300.72	241.30	223.12	2,812.18
2003	189.80	140.37	146.97	114.73	174.74	223.71	237.11	259.51	284.30	298.83	221.68	181.65	2,473.41
2004	151.66	182.15	148.30	310.09	216.58	282.33	361.39	382.18	362.98	373.34	352.36	254.50	3,377.85
2005	234.07	193.96	304.44	311.02	282.50	409.15	434.85	489.89	493.78	376.64	440.68	400.93	4,371.89
2006	377.46	366.69	449.86	409.01	294.49	437.64	496.20	511.43	505.99	434.09	478.72	390.29	5,151.85
2007	335.50	278.82	386.01	365.28	400.04	333.76	422.92	335.66	273.48	502.59	435.95	418.37	4,488.36
2008	342.25	170.17	152.48	260.32	167.29	227.36	275.81	271.39	327.00	288.45	183.03	138.02	2,783.57
2009	171.11	106.10	130.43	108.28	147.45	182.69	245.53	275.08	205.88	273.76	336.01	277.76	2,460.09
2010	164.14	143.13	568.33	741.43	791.99	789.05	801.08	768.50	780.25	795.42	486.99	423.47	7,253.78
2011	412.36	638.01	789.54	1,019.12	1,075.41	1,072.22	1,315.34	792.65	1,120.57	1,164.63	909.59	464.96	10,774.41

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.4-2M
Export of Electricity

Unit : GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1987	1.41	1.34	1.56	1.53	1.56	1.47	1.51	1.50	1.52	1.61	1.52	1.47	18.01
1988	1.56	1.52	1.70	1.65	1.72	1.62	1.76	1.73	1.73	1.63	1.53	1.64	19.80
1989	1.77	1.63	1.89	1.98	2.05	1.95	2.01	2.04	1.99	2.01	1.87	1.91	23.10
1990	2.10	1.98	2.35	3.61	2.39	2.29	2.36	2.44	2.41	2.41	2.25	2.33	28.92
1991	2.58	2.42	3.04	2.98	3.17	3.05	3.17	2.95	3.09	3.02	2.71	2.95	35.13
1992	3.05	3.16	4.11	4.12	3.98	3.41	3.31	3.32	3.33	3.19	3.05	3.34	41.36
1993	3.62	3.28	5.36	4.56	3.79	3.76	4.01	3.79	3.94	3.90	3.80	3.91	47.73
1994	4.15	4.31	5.54	6.14	5.41	4.44	4.47	4.50	4.51	4.53	4.47	4.97	57.44
1995	5.93	6.22	8.48	9.02	7.57	5.83	5.59	5.69	5.55	5.58	5.24	6.13	76.83
1996	7.21	7.06	9.30	8.19	7.12	6.99	7.13	6.91	6.00	6.38	5.92	6.25	84.47
1997	7.41	7.48	10.40	9.26	9.42	7.89	7.64	7.50	7.39	7.40	7.06	9.04	97.88
1998	12.21	11.87	15.46	14.10	12.18	10.31	9.59	9.39	9.15	10.69	9.96	12.68	137.60
1999	17.25	18.09	28.29	20.05	11.22	9.65	10.64	10.75	9.62	9.76	9.15	10.36	164.83
2000	13.75	15.18	19.22	14.82	11.51	10.63	10.88	10.96	9.82	10.45	10.29	12.41	149.92
2001	16.41	16.79	20.48	19.11	14.96	11.57	11.56	11.55	10.98	11.31	10.02	12.78	167.52
2002	16.36	18.48	24.94	21.08	18.76	13.09	13.62	11.91	11.47	11.98	11.36	14.78	187.84
2003	16.43	19.47	24.85	23.10	21.49	15.26	14.92	13.39	12.62	13.33	13.57	17.68	206.11
2004	22.95	23.16	33.08	28.07	30.52	17.10	14.39	14.10	13.73	14.29	17.27	24.40	253.06
2005	36.51	34.36	42.76	42.95	69.57	57.23	33.56	32.48	36.37	35.66	37.04	42.62	501.09
2006	50.87	48.47	55.40	53.06	53.01	46.33	42.03	42.10	43.64	40.36	53.19	57.67	586.13
2007	59.71	51.68	78.82	74.27	59.42	76.20	55.76	53.49	52.72	45.91	50.28	86.42	744.68
2008	86.76	79.18	100.63	103.29	79.93	63.47	71.02	73.23	65.09	69.34	72.64	96.50	961.09
2009	87.53	100.78	130.01	130.82	119.69	92.48	78.21	77.67	85.32	131.56	130.21	141.22	1,305.50
2010	151.42	150.09	155.92	156.38	160.84	143.20	108.20	53.00	56.19	51.50	57.56	69.34	1,313.65
2011	86.12	95.02	201.96	154.79	195.55	138.33	62.58	48.50	45.47	51.25	125.14	130.62	1,335.34

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 6 ENERGY VALUE

บทที่ 6 มูลค่าพลังงาน

EXPENDITURE

VALUE



Table 6.1-1M
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Petroleum Products	75,146	69,688	79,178	77,629	79,413	79,030	78,937	78,406	76,686	83,910	87,736	90,974
Electricity	30,094	29,314	34,937	32,998	34,346	34,261	33,539	34,114	33,325	33,040	31,913	30,787
Natural Gas	2,728	2,402	2,503	2,528	2,835	2,706	2,783	3,174	2,979	3,445	3,421	3,606
Lignite/Coal	1,913	1,652	3,719	1,965	1,370	1,486	1,703	2,203	1,475	1,683	1,752	2,208
Renewable Energy	9,595	9,329	8,993	8,204	7,958	7,879	7,882	7,901	7,908	8,001	8,914	9,538
Total	119,477	112,384	129,329	123,324	125,922	125,362	124,844	125,799	122,373	130,080	133,736	137,114
2008												
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Petroleum Products	94,056	87,699	96,847	100,778	105,047	106,514	106,085	95,310	85,831	81,674	66,586	65,687
Electricity	31,594	31,366	34,597	34,084	34,730	33,753	34,241	34,238	33,154	35,303	31,699	29,166
Natural Gas	3,903	3,812	3,890	3,920	4,255	4,343	5,268	5,442	5,697	5,279	4,327	3,731
Lignite/Coal	2,081	2,118	2,006	2,210	2,745	2,328	2,477	2,654	2,680	2,602	2,428	2,345
Renewable Energy	9,810	9,601	9,459	8,406	8,110	7,996	7,982	8,018	7,976	8,010	9,002	9,620
Total	141,444	134,595	146,799	149,398	154,887	154,934	156,053	145,662	135,339	132,868	114,042	110,548
2009												
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Petroleum Products	68,983	64,208	75,035	75,012	80,106	79,160	83,034	85,565	82,280	82,138	87,209	97,338
Electricity	30,115	32,004	37,511	35,035	37,032	37,301	37,077	38,161	37,553	37,754	36,468	35,156
Natural Gas	3,398	3,131	3,682	3,426	3,559	3,852	4,066	4,356	4,755	5,081	5,011	4,955
Lignite/Coal	2,045	1,996	2,314	2,620	2,539	2,727	2,448	2,339	2,577	2,220	2,298	2,487
Renewable Energy	10,957	10,743	10,053	9,237	8,984	8,889	8,882	8,894	8,880	8,974	10,045	10,729
Total	115,499	112,082	128,595	125,329	132,220	131,929	135,507	139,315	136,044	136,166	141,030	150,665
												1,584,383

Energy Value

Table 6.1-1M (Cont.)
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	2010												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Petroleum Products	92,632	90,051	100,285	93,967	91,845	87,615	89,470	88,970	84,473	88,691	95,265	102,599	1,105,863
Electricity	36,065	36,632	41,356	40,092	42,849	41,551	41,509	39,909	39,819	39,902	37,599	37,389	474,671
Natural Gas	5,261	5,361	6,141	5,387	5,745	5,875	5,821	5,869	5,778	5,610	5,732	6,143	68,724
Lignite/Coal	2,023	1,955	2,592	2,763	2,666	2,595	2,741	2,384	2,771	2,450	2,612	2,187	29,738
Renewable Energy	12,102	11,811	11,224	10,331	10,238	10,138	10,107	10,106	10,122	10,145	11,068	11,980	129,370
Total	148,082	145,810	161,597	152,541	153,343	147,773	149,647	147,238	142,962	146,798	152,276	160,297	1,808,365

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Petroleum Products	104,096	97,899	109,791	106,274	105,085	102,503	103,455	102,145	94,120	94,253	94,166	106,796	1,220,582
Electricity	36,107	35,503	39,976	37,156	42,923	42,505	41,706	41,938	42,002	39,992	35,458	36,340	471,604
Natural Gas	6,263	6,077	7,736	7,558	8,455	8,677	8,856	8,989	9,178	8,857	8,162	8,857	97,666
Lignite/Coal	2,288	2,303	2,731	2,484	2,446	3,016	2,476	2,736	2,411	2,280	2,593	2,467	30,233
Renewable Energy	11,534	11,333	11,368	10,962	10,274	9,826	9,342	9,757	9,748	9,781	10,756	11,348	126,030
Total	160,289	153,116	171,603	164,433	169,182	166,527	165,835	165,565	157,459	155,163	151,135	165,808	1,946,114

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2M
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gasoline	15,289	14,237	16,714	16,886	17,397	17,774	17,619	17,325	16,607	17,866	17,821	18,931
- Regular	10,047	9,247	11,037	11,192	11,503	11,714	11,566	11,339	10,656	11,330	11,144	11,756
- Premium	5,243	4,990	5,678	5,695	5,893	6,060	6,053	5,986	5,951	6,535	6,677	7,175
Kerosene	42	37	46	36	43	51	42	40	46	53	47	42
Diesel	37,411	34,658	40,565	39,028	39,539	39,851	38,328	39,507	38,133	41,124	44,088	46,669
J.P.	11,901	11,115	11,710	11,346	11,606	10,613	11,480	11,939	11,373	12,116	13,432	14,111
Fuel Oil	5,116	5,056	5,295	5,328	5,364	5,238	5,636	3,818	4,899	6,726	6,344	4,933
LPG	5,387	4,584	4,848	5,006	5,463	5,503	5,831	5,776	5,627	6,026	6,005	6,288
Total	75,146	69,688	79,178	77,629	79,413	79,030	78,937	78,406	76,686	83,910	87,736	90,974
												956,733

Energy Type	2008											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gasoline	18,645	17,793	19,239	19,938	20,719	21,596	21,606	19,325	18,004	17,021	13,586	12,879
- Regular	11,645	11,090	12,108	12,605	13,214	13,981	13,926	12,330	11,217	10,544	8,207	7,728
- Premium	7,000	6,702	7,131	7,333	7,505	7,615	7,679	6,994	6,787	6,477	5,379	5,151
Kerosene	50	45	46	53	61	61	55	50	48	45	39	39
Diesel	47,771	44,471	51,729	51,830	55,017	55,587	52,835	45,304	40,187	36,247	30,638	31,195
J.P.	14,555	13,949	13,822	14,552	15,569	16,272	16,897	15,623	13,783	15,253	12,855	11,987
Fuel Oil	6,332	5,155	5,400	7,949	6,303	5,825	7,008	6,966	6,094	5,202	3,645	3,767
LPG	6,703	6,287	6,611	6,455	7,378	7,172	7,685	8,042	7,716	7,906	5,823	5,820
Total	94,056	87,699	96,847	100,778	105,047	106,514	106,085	95,310	85,831	81,674	66,586	65,687
												1,092,114

Energy Type	2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gasoline	12,922	13,888	16,600	17,277	18,515	18,506	19,440	20,432	20,131	16,239	19,365	21,518
- Regular	7,706	8,186	9,634	10,000	10,726	10,768	11,406	11,961	11,505	8,064	11,408	12,681
- Premium	5,216	5,702	6,966	7,277	7,789	7,737	8,034	8,471	8,627	8,175	7,956	8,837
Kerosene	39	50	64	45	50	51	50	53	63	63	60	69
Diesel	31,105	27,349	32,381	34,424	37,164	36,828	37,629	39,456	36,478	38,329	40,621	46,314
J.P.	14,703	13,552	15,037	12,800	12,977	11,967	13,241	13,516	12,909	14,082	14,574	15,540
Fuel Oil	3,709	3,625	3,668	3,468	4,027	4,384	4,550	4,067	4,911	5,394	4,767	5,531
LPG	6,505	5,744	7,285	6,998	7,372	7,424	8,125	8,041	7,788	8,030	7,823	8,365
Total	68,983	64,208	75,035	75,012	80,106	79,160	83,034	85,564	82,280	82,138	87,209	97,338
												960,067

Energy Value

Table 6.1-2M (Cont.)
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2010												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	20,402	20,173	21,596	21,328	20,277	20,284	20,863	20,381	19,357	20,176	21,191	23,028	249,036
- Regular	12,040	12,232	13,344	13,142	12,644	12,676	13,019	12,706	12,179	12,688	13,401	14,550	154,621
- Premium	8,362	7,941	8,251	8,186	7,632	7,588	7,844	7,675	7,178	7,488	7,790	8,478	94,415
Kerosene	68	53	56	40	70	43	39	35	40	44	41	43	572
Diesel	43,058	42,407	47,995	45,189	45,625	41,772	42,118	40,262	38,359	40,345	45,633	49,413	522,176
J.P.	16,187	14,881	16,321	14,395	12,828	12,759	13,675	14,889	13,844	14,979	15,304	16,674	176,736
Fuel Oil	4,654	4,821	5,600	4,765	4,686	4,310	4,548	4,376	4,053	4,176	4,441	4,071	54,500
LPG	8,262	7,716	8,719	8,251	8,360	8,468	8,226	9,026	8,820	8,971	8,655	9,369	102,843
Total	92,632	90,051	100,285	93,967	91,845	87,615	89,470	88,970	84,473	88,691	95,265	102,599	1,105,863

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	22,626	21,969	23,663	24,479	24,008	24,057	23,972	23,997	21,300	20,227	19,011	22,182	271,490
- Regular	14,433	14,095	15,231	15,743	15,517	15,719	15,539	16,139	15,793	15,438	14,602	16,058	184,308
- Premium	8,193	7,874	8,432	8,736	8,491	8,337	8,433	7,857	5,507	4,788	4,408	6,124	87,182
Kerosene	39	39	42	38	34	39	47	45	47	42	43	40	495
Diesel	48,505	44,942	51,121	49,776	50,564	48,142	45,589	45,321	41,993	41,640	45,388	52,102	565,081
J.P.	18,212	16,481	18,127	16,280	14,873	14,680	15,716	15,950	15,192	15,612	15,722	17,071	193,917
Fuel Oil	4,128	5,124	5,446	4,417	4,102	4,619	5,883	4,840	4,373	5,410	3,918	4,795	57,057
LPG	10,586	9,345	11,392	11,283	11,504	10,965	12,248	11,991	11,215	11,322	10,085	10,605	132,542
Total	104,096	97,899	109,791	106,274	105,085	102,503	103,455	102,145	94,120	94,253	94,166	106,796	1,220,582

Remarks : Final Energy Consumption

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3M
Value of Energy Import

Unit : Million Bahts

Energy Type	2007											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Crude Oil	45,766	55,654	49,338	59,555	57,561	53,726	63,418	72,574	56,986	62,359	65,457	73,396
Pet. Products	3,544	3,172	2,461	4,899	5,133	4,308	3,402	3,737	4,576	5,112	6,236	3,671
Natural Gas	6,137	5,844	6,974	5,976	6,873	6,706	6,371	6,617	6,820	7,286	6,979	6,319
Coal	1,770	1,574	4,652	2,024	2,291	2,402	2,036	3,070	2,463	2,086	2,531	2,757
Electricity	541	462	645	592	643	563	698	541	431	834	748	717
Total	57,758	66,705	64,069	73,046	72,502	67,704	75,925	86,539	71,277	77,678	81,950	86,859
2008												
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Crude Oil	83,146	82,609	91,595	83,220	99,964	97,248	107,669	116,573	80,313	81,128	37,257	41,945
Pet. Products	3,945	1,233	4,715	7,788	1,114	3,026	6,119	2,869	4,890	2,764	2,206	394
Natural Gas	6,184	6,713	7,179	5,384	6,934	6,940	8,463	8,734	8,825	9,542	8,126	7,485
Coal	2,413	2,992	2,511	3,137	3,898	2,544	3,018	3,283	3,452	3,327	2,608	3,273
Electricity	582	287	235	449	282	347	431	416	534	439	305	232
Total	96,270	93,833	106,235	99,978	112,192	110,104	125,699	131,875	98,013	97,200	50,502	53,329
2009												
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Crude Oil	36,462	28,368	49,271	44,718	48,364	60,146	55,053	56,159	64,510	58,875	65,035	56,061
Pet. Products	1,725	2,244	3,926	906	2,494	1,042	1,911	1,950	2,825	2,841	3,543	3,711
Natural Gas	3,442	7,319	7,278	7,639	8,708	8,554	7,302	8,005	7,613	7,142	6,666	4,539
Coal	2,011	2,451	3,468	3,588	3,364	2,769	3,394	3,267	3,754	4,601	1,816	2,452
Electricity	308	183	228	177	242	292	384	422	396	344	332	315
Total	43,948	40,565	64,171	57,029	63,172	72,803	68,044	69,802	79,099	73,803	77,392	67,078
												776,906

Energy Value

Table 6.1-3M (Cont.)
Value of Energy Import

Unit : Million Bahts

Energy Type	2010												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	61,323	60,116	58,130	76,338	60,066	63,314	59,100	61,968	56,355	56,070	63,825	74,891	751,467
Pet. Products	3,762	3,108	7,158	5,882	7,275	6,796	4,552	5,277	5,626	7,009	4,169	6,222	66,835
Natural Gas	6,026	6,990	5,239	7,436	7,968	7,202	8,073	7,469	7,616	7,116	6,403	6,942	84,481
Coal	2,702	3,087	3,282	4,953	3,209	2,860	2,643	2,272	3,783	3,579	3,076	3,914	39,361
Electricity	223	186	739	932	207	993	1,019	1,004	1,108	512	664	571	8,157
Total	74,037	73,487	74,548	95,541	78,725	81,165	75,387	77,989	74,488	74,285	78,137	92,539	950,300

Energy Type	2011												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	69,178	62,257	80,347	92,784	98,123	80,322	88,088	95,282	75,827	75,010	79,582	80,574	977,374
Pet. Products	6,608	9,149	7,955	6,435	9,518	6,700	8,344	7,760	8,591	8,177	8,723	6,318	94,279
Natural Gas	5,413	6,251	7,244	7,557	8,623	8,428	9,389	9,010	9,175	7,940	7,679	6,785	93,493
Coal	3,678	4,064	3,518	3,624	3,876	4,548	2,927	2,721	4,266	2,617	3,645	2,852	42,336
Electricity	717	725	1,002	1,251	1,394	1,415	1,851	129	1,459	1,374	990	1,553	13,860
LNG					1,037	2,385	3,204	4,119	1,974	1,391	1,884		15,993
Total	85,594	82,446	100,066	111,650	122,571	103,798	113,804	119,020	101,292	96,509	102,504	98,081	1,237,336

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4M
Value of Energy Export

Unit : Million Bahts

2007											
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Crude Oil	3,940	3,309	2,526	3,761	3,553	3,352	4,119	3,574	4,328	3,282	45,812
Electricity	10,627	8,931	11,289	9,816	16,009	12,242	10,246	12,707	14,505	15,081	159,077
Petroleum Products	176	151	229	217	173	219	159	155	150	130	2,145
Total	14,743	12,391	14,043	13,794	19,735	15,813	14,525	16,436	18,983	18,493	207,034

2008											
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Crude Oil	3,864	3,337	3,459	5,158	9,962	6,071	7,036	4,743	5,216	3,784	56,575
Electricity	19,009	16,124	20,536	20,907	27,618	25,109	32,984	32,644	19,107	18,951	260,384
Petroleum Products	247	227	287	299	227	178	199	204	185	206	2,801
Total	23,120	19,689	24,282	26,365	37,807	31,358	40,219	37,591	24,508	22,941	319,760

2009											
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Crude Oil	2,356	1,549	1,528	2,298	2,374	1,549	4,211	2,609	1,392	1,960	27,410
Electricity	12,770	8,455	10,737	14,032	17,315	22,274	18,479	21,369	19,108	21,846	205,286
Petroleum Products	276	317	411	406	369	293	241	241	267	407	4,068
Total	15,401	10,321	12,676	16,736	20,057	24,116	22,930	24,219	20,767	24,213	236,764

Table 6.1-4M (Cont.)
Value of Energy Export

Unit : Million Bahts

2010											
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Crude Oil	2,661	503	2,701	2,135	2,287	1,830	3,287	2,239	3,115	1,197	26,107
Electricity	11,853	12,517	15,746	20,187	18,105	22,101	21,961	22,949	24,654	21,183	231,864
Petroleum Products	466	470	486	488	500	448	337	164	175	160	4,087
Total	14,980	13,490	18,933	22,811	20,892	24,379	25,585	25,352	27,944	22,540	262,058
2011											
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Crude Oil	2,609	2,887	3,665	5,398	2,798	3,528	1,012	4,417	3,079	4,127	39,915
Electricity	18,005	9,289	17,678	23,564	25,812	20,426	29,667	35,017	30,245	19,536	278,257
Petroleum Products	264	263	364	398	383	327	193	151	143	166	3,137
Total	20,878	12,439	21,707	29,359	28,993	24,280	30,872	39,585	33,467	23,828	321,309

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 7 PETROLEUM PRICES

บทที่ 7 ราคาน้ำมันปิโตรเลียม



Table 7.1-1M
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices													
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B/kg)	
			(E10)	(E20)	(E85)							Cooking	Industry
2007													
Jan	14.40	13.96	15.70				16.15	15.57	31.00	15.17	10.20	11.55	
Feb	15.39	14.94	16.07			15.64	16.44	16.41	16.80	16.01	10.89	11.70	
Mar	17.30	16.86	17.70			17.43	16.90	16.84	17.22	16.39	11.15	11.51	
Apr	18.73	18.35	18.91			18.72	18.19	18.25	18.61	17.79	12.33	11.36	
May	19.67	19.25	19.76			19.58	18.26	18.42	18.90	17.97	12.24	11.23	
Jun	18.84	18.41	19.01			18.82	18.57	18.41	18.29	17.95	12.66	11.15	
Jul	18.50	18.08	18.52			18.31	18.86	18.80	18.42	18.35	13.22	10.97	
Aug	16.98	16.56	17.16			16.97	18.51	18.44	18.08	17.99	13.10	10.98	
Sep	18.12	17.70	18.19			18.00	19.83	20.10	19.53	19.66	13.68	10.95	
Oct	19.46	19.04	19.24			19.05	21.19	21.05	20.47	20.62	15.33	11.01	
Nov	21.66	21.24	21.22			21.03	24.43	23.32	23.08	22.91	17.07	10.93	
Dec	21.29	20.87	20.88			20.70	23.43	23.13	22.88	22.70	16.18	10.90	
AVG	18.36	17.94	18.53			18.57	19.23	19.06	20.27	18.63	13.17	11.19	
2008													
Jan	21.34	20.93	21.12	20.81		20.94	22.59	22.70	22.57	22.23	15.82	10.90	
Feb	21.71	21.20	21.36	21.02		21.18	22.87	23.40	23.93	22.63	15.35	11.08	
Mar	22.00	21.61	21.71	21.33		21.54	25.16	25.30	26.22	25.00	15.79	11.00	
Apr	23.77	23.37	23.32	22.85		23.15	27.99	28.23	28.54	27.60	17.16	11.00	
May	26.58	26.18	25.86	25.05		25.68	32.46	32.44	32.60	31.88	19.36	11.00	
Jun	29.61	29.19	28.59	27.48		28.41	34.93	35.44	35.58	34.83	21.25	11.00	
Jul	28.85	28.43	27.96	26.97		27.77	35.74	35.76	35.96	35.06	24.17	11.00	
Aug	25.04	24.62	24.53	23.92		24.34	29.74	29.00	29.21	28.27	22.50	11.00	
Sep	23.47	23.04	23.11	22.67		22.92	26.54	26.33	26.44	25.70	19.98	11.00	
Oct	17.75	17.33	18.39	18.92		18.20	19.99	19.13	19.32	18.50	14.09	11.00	
Nov	11.24	10.81	12.53	13.72		12.34	16.84	15.93	16.09	15.35	9.02	11.00	
Dec	9.43	8.99	10.89	12.26		10.70	13.27	13.57	13.83	12.94	8.41	11.00	
AVG	21.73	21.31	21.62	21.42		21.43	25.68	25.60	25.86	25.00	16.91	10.99	
2009													
Jan	11.85	11.39	12.58	13.21		12.39	13.39	13.50	13.84	12.86	9.29	11.00	
Feb	13.29	12.86	13.88	14.37		13.69	12.09	11.81	12.21	11.15	9.52	11.00	
Mar	12.61	12.17	13.27	13.83		13.08	12.35	12.61	13.05	11.96	9.26	11.00	
Apr	13.91	13.48	14.44	14.87		14.25	13.57	13.82	14.16	13.23	10.66	11.00	
May	15.17	14.74	15.71	16.15		15.52	14.30	14.81	15.27	14.15	12.20	11.00	
Jun	16.91	16.49	17.43	17.84		17.24	16.78	17.20	17.62	16.56	13.85	11.00	
Jul	15.90	15.48	16.57	17.15		16.39	15.85	16.01	16.37	15.40	13.84	11.00	
Aug	18.34	17.42	18.83	19.22		18.20	17.17	17.62	17.92	17.05	14.93	11.00	
Sep	17.10	16.18	17.60	18.01		16.97	16.33	16.77	17.11	16.17	14.57	11.37	
Oct	17.00	16.09	17.52	17.94		16.89	17.04	17.27	17.52	16.75	14.78	11.30	
Nov	17.96	17.06	18.85	19.65		18.22	18.16	18.32	18.58	17.78	15.67	11.16	
Dec	17.88	16.97	18.79	19.60		18.16	17.73	17.75	18.12	17.14	15.57	11.12	
AVG	15.66	15.03	16.29	16.82		15.92	15.40	15.62	15.98	15.02	12.85	11.08	

Table 7.1-1M (Cont.)
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices													
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B/kg)	
			(E10)	(E20)	(E85)							Cooking	Industry
2010													
Jan	19.09	18.18	19.80	20.42	23.54	19.17	18.31	18.37	18.77	17.74	16.13	11.10	
Feb	18.48	18.03	18.92	19.27	20.63	18.70	17.49	17.91	18.26	17.30	15.38	11.04	
Mar	19.04	18.59	19.34	19.55	19.99	19.12	18.23	18.68	19.04	18.08	15.32	11.08	
Apr	19.54	19.09	19.92	20.22	21.27	19.71	19.52	19.85	20.16	19.29	15.78	10.86	
May	18.00	17.55	18.68	19.27	22.23	18.46	18.48	18.81	19.15	18.23	15.05	10.79	
Jun	17.50	17.05	18.26	18.92	22.38	18.04	18.06	18.37	18.61	17.66	14.39	10.83	
Jul	17.25	16.80	17.88	18.43	21.08	17.67	17.72	18.05	18.26	17.37	14.45	10.85	
Aug	17.04	16.70	17.87	18.50	21.74	17.65	17.94	18.41	18.63	17.71	14.60	10.80	
Sep	16.43	16.01	17.25	17.98	21.90	17.04	17.36	17.72	17.98	16.99	13.81	10.61	
Oct	17.29	16.87	18.39	19.40	25.19	18.18	18.10	18.37	18.66	17.61	14.23	10.31	
Nov	17.94	17.53	18.97	19.91	25.22	18.76	18.77	19.20	19.60	18.28	14.82	10.02	
Dec	19.67	19.26	20.59	21.42	26.01	20.39	19.94	20.54	21.02	19.49	15.37	9.99	
AVG	18.11	17.64	18.82	19.44	22.60	18.57	18.33	18.69	19.01	17.98	14.94	10.69	
2011													
Jan	20.79	20.37	21.65	22.42	26.58	21.44	21.35	22.13	22.77	20.80	16.21	10.07	
Feb	21.90	21.47	22.55	23.13	26.00	22.34	23.43	24.15	24.91	22.61	18.36	10.22	
Mar	23.49	23.06	24.00	24.42	26.36	23.78	25.58	25.70	26.23	24.96	19.34	10.27	
Apr	24.80	24.38	24.83	24.78	23.62	24.62	26.51	26.69	26.99	26.09	20.19	10.15	
May	24.42	23.99	24.57	24.64	24.27	24.36	25.02	25.29		24.47	19.51	10.05	
Jun	23.57	23.13	23.90	24.16	24.97	23.69	24.82	25.13		24.33	19.83	10.11	
Jul	24.24	23.81	24.41	24.50	24.27	24.20	24.84	25.12		24.40	19.89	10.20	4.61
Aug	23.39	23.00	23.58	23.70	23.61	23.40	23.84	24.04		23.18	19.25	10.06	10.06
Sep	24.31	23.89	24.36	24.32	23.26	24.15	24.12	24.44		23.65	19.76	9.99	9.99
Oct	24.05	23.61	24.25	24.36	24.25	24.03	24.27	24.30		23.61	20.02	10.17	10.17
Nov	22.48	22.05	22.54	22.51	21.47	22.32	25.33	25.64		24.99	21.03	10.32	10.32
Dec	22.66	22.24	22.68	22.62	21.37	22.48	24.53	25.16		24.35	20.61	10.35	10.35
AVG	23.34	22.92	23.61	23.80	24.17	23.40	24.47	24.82	25.23	23.95	19.50	10.16	9.25

Table 7.1-2M
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices														
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)	
			(E10)	(E20)	(E85)								Cooking	Industry
2007	3.67	3.37	0.85			0.62	0.10		1.39	0.60	1.39	0.06	-1.02	
Jan	3.46	3.26	1.50			1.50	0.10		1.50	0.63	1.50	0.06	-1.48	
Feb	3.46	3.26	1.50			1.50	0.10		1.50	0.54	1.50	0.06	-1.63	
Mar	3.46	3.26	1.26			1.26	0.10		1.50	0.33	1.50	0.06	-1.44	
Apr	3.46	3.26	1.00			1.00	0.10		1.50	0.30	1.50	0.06	-1.29	
May	3.46	3.26	0.75			0.75	0.10		1.50	0.30	1.50	0.06	-1.16	
Jun	3.46	3.26	0.60			0.60	0.10		1.50	0.93	1.50	0.06	-1.08	
Jul	3.47	3.27	0.60			0.26	0.10		1.50	1.00	1.50	0.06	-0.90	
Aug	3.83	3.57	0.78			0.28	0.10		1.50	1.00	1.50	0.06	-0.91	
Sep	4.00	3.70	0.90			0.40	0.10		1.50	1.00	1.50	0.06	-0.89	
Oct	4.00	3.70	0.70			0.20	0.10		1.50	0.99	1.50	0.06	-0.89	
Nov	4.00	3.35	0.35			-0.15	0.10		1.03	0.23	1.03	0.06	-0.83	
Dec	4.00	3.30	0.30			-0.20	0.10		0.70	-0.10	0.70	0.06	0.30	
2008	3.78	3.31	0.77	-0.21		0.28	0.10		0.40	-0.68	0.31	0.06	0.30	
Jan	3.58	2.95	0.22	-0.32		-0.28	0.10		0.36	-0.12	0.36	0.06	0.30	
Feb	3.45	3.00	0.25	-0.30		-0.25	0.10		0.10	-1.02	0.10	0.06	0.30	
Mar	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.15	-1.07	-0.15	0.06	0.30	
Apr	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	
May	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	
Jun	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	
Jul	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	
Aug	3.54	3.09	0.34	-0.21		0.16	0.10		0.18	1.22	0.18	0.06	0.30	
Sep	3.96	3.66	0.93	0.25		0.43	0.10		0.78	-0.62	0.78	0.06	0.30	
Oct	4.00	4.00	1.58	0.27		1.05	0.10		1.31	-0.20	1.20	0.06	0.30	
Nov	4.00	4.00	2.35	0.15		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	
Dec	5.55	4.00	2.35	-0.80		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	
2009	6.94	5.31	1.78	-0.80	-7.88	1.17	0.10		0.78	-0.95	1.20	0.06	0.22	
Jan	7.00	4.00	2.35	-0.30		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	
Feb	7.00	4.00	-0.49	-2.59	-6.50	-1.09	0.10		0.07	-0.63	1.20	0.06	0.30	
Mar	7.00	5.17	1.91	-0.51	-5.70	1.31	0.10		0.75	-0.20	1.20	0.06	0.30	
Apr	7.00	5.70	2.35	-0.30	-5.70	1.75	0.10		1.70	-0.20	1.20	0.06	0.30	
May	5.93	4.63	1.41	-1.12	-7.91	0.81	0.10		0.59	-1.85	1.20	0.06	0.30	
Jun	5.36	4.06	0.86	-1.57	-7.84	0.10	0.10		-0.01	-2.70	1.20	0.06	0.30	
Jul	6.65	5.35	1.67	-0.94	-7.22	1.07	0.10		1.14	-1.18	1.20	0.06	0.30	
Aug	7.29	5.99	2.27	-0.46	-7.13	1.67	0.10		1.02	-0.57	1.20	0.06	0.30	
Sep	7.50	6.20	2.27	-0.46	-7.76	1.67	0.10		0.84	-1.43	1.20	0.06	-0.07	
Oct	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.00	
Nov	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.14	
Dec	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.18	

Table 7.1-2M (Cont.)
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices														
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B/kg)	
			(E10)	(E20)	(E85)								Cooking	Industry
2010	7.50	6.65	2.74	-0.41	-10.93	1.43	0.10		0.66	-0.65	1.20	0.06	0.61	
Jan	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.19	
Feb	7.50	6.56	2.65	-0.42	-10.80	1.48	0.10		0.85	-0.80	1.20	0.06	0.26	
Mar	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06	0.22	
Apr	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06	0.43	
May	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.85	-0.80	1.20	0.06	0.51	
Jun	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.47	
Jul	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.45	
Aug	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.50	
Sep	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.69	
Oct	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	0.99	
Nov	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.65	-0.50	1.20	0.06	1.28	
Dec	7.50	6.70	2.80	-0.40	-11.00	1.40	0.10		0.04	-0.74	1.20	0.06	1.31	
2011	4.90	4.38	1.87	-1.80	-13.50	-0.40	0.10	0.10	-0.60	-3.01	1.20	0.06	1.14	5.07
Jan	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-1.30	-2.00	1.20	0.06	1.23	
Feb	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-3.29	-3.77	1.20	0.06	1.08	
Mar	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-4.92	-4.05	1.20	0.06	1.03	
Apr	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		-3.97	-2.20	1.20	0.06	1.15	
May	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		1.27		1.20	0.06	1.25	
Jun	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		1.38		1.20	0.06	1.19	
Jul	7.50	6.70	2.40	-1.30	-13.50	0.10	0.10		1.55		1.20	0.06	1.10	2.37
Aug	6.29	5.62	2.37	-1.35	-13.50	0.05	0.10	0.10	2.06		1.20	0.06	1.24	4.05
Sep	0.00	0.00	1.40	-2.80	-13.50	-1.40	0.10	0.10	0.00		1.20	0.06	1.31	4.11
Oct	0.00	0.00	1.40	-2.80	-13.50	-1.40	0.10	0.10	0.00		1.20	0.06	1.13	6.74
Nov	0.00	0.00	0.32	-2.80	-13.50	-1.40	0.10		0.00		1.20	0.06	0.98	6.58
Dec	0.00	0.00	0.20	-2.80	-13.50	-1.40	0.10	0.10	0.00		1.20	0.06	0.95	6.56

Table 7.1-3M
Retail Prices of Petroleum Products in Bangkok

Products	1. Gasoline				2. Kerosene	3. Diesel			4. Fuel Oil			5. LPG		
	ULG95	UGR91	Gasohol 95			Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/L)
			(E10)	(E20)										
2007 (Min) (WT.AVG) (Max)	29.18	28.32	26.17		25.76	25.66	24.95	25.45	18.48	17.66	16.91		16.91	9.14
	29.18	28.32	26.17		25.76	25.66	24.95	25.45	19.35	18.45	16.91		16.91	9.14
	29.23	28.35	26.25		25.76	25.67	24.95	25.45	20.67	20.19	16.91		16.91	9.14
-Jan (Min)	25.71	24.91	24.21		25.24	22.76	22.26	22.57	16.51	15.66	16.81		16.81	9.09
(WT.AVG)	25.71	24.91	24.21		26.96	22.76	22.26	22.57	17.01	16.21	16.81		16.81	9.09
(Max)	25.93	25.13	24.43		29.03	22.76	22.26	22.57	17.80	17.32	16.81		16.81	9.09
-Feb (Min)	25.63	24.83	23.90		24.96	23.10	22.60	22.91	15.73	14.87	16.81		16.81	9.09
(WT.AVG)	25.63	24.83	23.90		23.39	23.10	22.60	22.91	16.99	16.09	16.81		16.81	9.09
(Max)	25.65	24.85	24.10		23.39	23.10	22.60	22.91	18.51	18.03	16.81		16.81	9.09
-Mar (Min)	27.34	26.54	25.12		24.96	23.62	22.96	23.43	16.22	15.36	16.81		16.81	9.09
(WT.AVG)	27.34	26.54	25.12		27.32	23.62	22.96	23.43	17.42	16.49	16.81		16.81	9.09
(Max)	27.34	26.54	25.12		24.80	23.62	22.96	23.43	19.00	18.52	16.81		16.81	9.09
-Apr (Min)	28.68	27.88	26.18		24.96	24.83	24.13	24.64	17.33	16.48	16.81		16.81	9.09
(WT.AVG)	28.68	27.88	26.18		25.88	24.83	24.13	24.64	18.39	17.42	16.81		16.81	9.09
(Max)	28.68	27.88	26.18		25.88	24.83	24.13	24.64	20.11	19.63	16.81		16.81	9.09
-May (Min)	29.99	29.19	26.86		24.96	25.34	24.64	25.15	17.76	16.91	16.81		16.81	9.09
(WT.AVG)	29.99	29.19	26.86		26.56	25.34	24.64	25.15	18.75	17.76	16.81		16.81	9.09
(Max)	29.99	29.19	26.86		26.56	25.34	24.64	25.15	20.54	20.06	16.81		16.81	9.09
-Jun (Min)	30.00	29.20	26.70		24.96	25.34	24.64	25.15	17.92	17.07	16.81		16.81	9.09
(WT.AVG)	30.01	29.21	26.71		26.40	25.34	24.64	25.15	18.91	17.92	16.81		16.81	9.09
(Max)	30.10	29.30	27.09		26.40	25.34	24.64	25.15	20.70	20.22	16.81		16.81	9.09
-Jul (Min)	29.85	29.05	26.39		25.75	25.61	24.91	25.15	18.37	17.60	16.81		16.81	9.09
(WT.AVG)	29.85	29.05	26.39		25.75	25.61	24.91	25.15	19.39	18.41	16.81		16.81	9.09
(Max)	29.85	29.05	26.46		25.75	25.61	24.91	25.15	21.15	20.67	16.81		16.81	9.09
-Aug (Min)	28.53	27.73	25.03		24.23	25.44	24.74	25.25	18.49	17.65	16.81		16.81	9.09
(WT.AVG)	28.53	27.73	25.03		24.23	25.44	24.74	25.25	19.53	18.55	16.81		16.81	9.09
(Max)	28.53	27.73	25.03		24.23	25.44	24.74	25.25	21.28	20.80	16.81		16.81	9.09
-Sep (Min)	29.39	28.59	25.89		25.09	26.58	25.88	26.39	18.55	17.70	16.81		16.81	9.09
(WT.AVG)	29.39	28.59	25.89		25.09	26.58	25.88	26.39	19.57	18.63	16.81		16.81	9.09
(Max)	29.39	28.59	25.89		25.09	26.58	25.88	26.39	21.18	20.70	16.81		16.81	9.09
-Oct (Min)	30.31	29.51	26.81		26.88	27.47	26.76	27.28	19.90	19.04	16.81		16.81	9.09
(WT.AVG)	30.31	29.51	26.81		30.27	27.47	26.76	27.28	20.43	19.61	16.81		16.81	9.09
(Max)	30.31	29.51	26.81		31.50	27.47	26.76	27.28	21.28	20.80	16.81		16.81	9.09
-Nov (Min)	32.07	31.03	28.33		28.75	28.78	27.78	28.63	22.49	21.91	16.81		16.81	9.09
(WT.AVG)	32.08	31.04	28.34		31.97	28.80	27.78	28.63	22.99	22.24	16.81		16.81	9.09
(Max)	32.14	31.09	28.37		33.07	28.84	27.78	28.63	23.40	22.92	16.81		16.81	9.09
-Dec (Min)	32.62	31.32	28.62		29.74	29.07	28.07	28.88	22.50	21.72	18.01		18.01	9.73
(WT.AVG)	32.67	31.32	28.62		32.17	29.07	28.07	28.88	22.79	22.05	18.01		18.01	9.73
(Max)	32.79	31.32	28.62		33.34	29.07	28.07	28.88	23.14	22.66	18.01		18.01	9.73

Unit : Baht/Liter

Unit : Baht/Litre

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Products	1. Gasoline				2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG		
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/L)
			(E10)	(E20)									
2008 (Min)	34.86	33.40	28.95	27.36	28.15	31.15	30.34	33.20	22.53	21.06	18.13		18.13
(WT.AVG)	35.33	33.43	28.97	27.37	28.16	31.26	30.39	33.20	24.30	22.90	18.13		18.13
(Max)	35.89	33.45	29.02	27.37	28.20	31.34	30.50	33.20	27.12	26.11	18.13		18.13
-Jan (Min)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	20.35	19.78	18.02		18.02
(WT.AVG)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	21.61	20.87	18.02		18.02
(Max)	33.17	31.88	29.17	27.47	28.37	29.43	28.44	29.06	22.79	22.37	18.02		18.02
-Feb (Min)	32.94	31.84	28.94	26.94	28.14	30.61	28.79	29.20	20.37	19.30	18.21		18.21
(WT.AVG)	32.94	31.84	28.94	26.94	28.14	30.61	28.79	29.20	21.64	20.61	18.21		18.21
(Max)	32.94	31.84	28.94	26.94	28.14	30.61	28.79	29.20	22.81	22.33	18.21		18.21
-Mar (Min)	34.01	32.91	30.01	28.01	29.21	32.07	29.82	30.56	21.35	20.28	18.13		18.13
(WT.AVG)	34.05	32.94	30.03	28.01	29.21	32.07	29.82	30.56	22.52	21.48	18.13		18.13
(Max)	34.15	32.96	30.06	28.01	29.26	32.07	29.82	30.56	23.61	23.13	18.13		18.13
-Apr (Min)	35.31	34.21	31.31	29.31	30.51	31.99	31.29	32.30	22.16	21.01	18.13		18.13
(WT.AVG)	35.40	34.27	31.36	29.31	30.52	32.32	31.36	32.30	23.36	22.26	18.13		18.13
(Max)	35.42	34.32	31.42	29.31	30.62	32.49	31.57	32.30	24.53	23.97	18.13		18.13
-May (Min)	38.18	37.10	34.18	32.18	33.38	37.89	34.63	36.13	23.46	21.97	18.13		18.13
(WT.AVG)	38.26	37.12	34.19	32.18	33.38	37.89	34.63	36.13	25.11	23.58	18.13		18.13
(Max)	39.01	37.15	34.25	32.18	33.43	38.02	34.75	36.13	26.83	25.92	18.13		18.13
-Jun (Min)	41.43	40.33	36.73	35.15	35.93	40.86	40.16	41.52	25.41	23.62	18.13		18.13
(WT.AVG)	41.64	40.40	36.80	35.17	35.97	41.02	40.29	41.52	27.09	25.28	18.13		18.13
(Max)	42.34	40.51	37.07	35.19	36.11	41.19	40.46	41.52	28.79	27.63	18.13		18.13
-Jul (Min)	42.04	40.83	36.35	35.05	35.55	42.40	41.72	43.68	28.99	27.06	18.13		18.13
(WT.AVG)	42.69	40.90	36.41	35.10	35.61	42.57	41.90	43.68	30.49	28.46	18.13		18.13
(Max)	43.35	40.98	36.50	35.16	35.70	42.69	42.01	43.68	32.55	31.22	18.13		18.13
-Aug (Min)	38.24	36.84	29.34	28.04	28.54	40.82	34.37	37.48	28.26	26.39	18.13		18.13
(WT.AVG)	38.62	36.84	29.34	28.04	28.54	40.82	34.37	37.48	29.57	27.52	18.13		18.13
(Max)	39.44	36.85	29.35	28.04	28.55	40.82	34.37	37.48	31.42	30.08	18.13		18.13
-Sep (Min)	37.30	35.82	28.32	27.02	27.52	38.81	31.65	34.86	27.67	26.00	18.13		18.13
(WT.AVG)	37.84	35.87	28.35	27.02	27.54	38.81	31.65	34.86	28.60	26.83	18.13		18.13
(Max)	38.51	35.92	28.42	27.02	27.62	38.81	31.65	34.86	29.99	28.65	18.13		18.13
-Oct (Min)	33.90	31.90	25.39	24.25	24.59	33.42	26.22	29.48	22.66	20.98	18.13		18.13
(WT.AVG)	34.42	31.90	25.39	24.25	24.59	33.42	26.22	29.48	24.42	22.95	18.13		18.13
(Max)	35.16	31.90	25.39	24.25	24.59	33.42	26.22	29.48	27.51	26.18	18.13		18.13
-Nov (Min)	27.91	25.60	20.64	19.26	19.84	28.37	21.02	27.04	15.50	13.79	18.13		18.13
(WT.AVG)	28.68	25.60	20.64	19.26	19.84	28.37	21.02	27.04	17.93	17.93	18.13		18.13
(Max)	29.44	25.60	20.64	19.26	19.84	28.37	21.02	27.04	27.28	25.90	18.13		18.13
-Dec (Min)	23.92	21.54	17.00	15.65	16.17	25.97	19.67	27.04	14.22	12.51	18.13		18.13
(WT.AVG)	26.28	21.54	17.00	15.65	16.17	25.97	19.67	27.04	18.10	16.99	18.13		18.13
(Max)	27.76	21.54	17.00	15.65	16.17	25.97	19.67	27.04	27.28	25.90	18.13		18.13

Unit : Baht/Litre

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Products	1. Gasoline					2. Kerosene	3. Diesel		4. Fuel Oil		5. LPG		Unit : Baht/Ltr		
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)		Industry (Baht/kg)	Automobile (Baht/L)
			(E10)	(E20)											
2009 (Min)	37.23	31.32	27.49	25.39	18.77	26.65	26.20	24.75	22.71	27.04	18.10	16.39	18.13	9.79	
(WT,AVG)	37.47	31.34	27.50	25.39	18.87	26.69	37.21	24.77	22.71	27.04	21.18	19.83	18.13	9.79	
(Max)	38.29	31.36	27.53	25.39	18.96	26.74	39.88	24.79	22.73	27.04	27.28	25.90	18.13	9.79	
-Jan (Min)	29.28	21.99	17.44	16.14	15.97	16.64	25.76	18.61	17.11	27.04	14.22	12.51	18.13	9.79	
(WT,AVG)	30.00	22.07	17.53	16.16	17.13	16.70	37.11	18.63	17.14	27.04	18.10	16.99	18.13	9.79	
(Max)	30.59	22.24	17.69	16.18	18.29	16.89	39.88	18.73	17.23	27.04	27.28	25.90	18.13	9.79	
-Feb (Min)	33.85	26.23	21.70	20.40	14.69	20.58	25.76	19.59	18.09	27.04	14.34	12.63	18.13	9.79	
(WT,AVG)	34.41	26.24	21.71	20.40	14.69	20.89	37.16	19.59	18.09	27.04	18.19	17.08	18.13	9.79	
(Max)	34.85	26.25	21.73	20.40	14.69	20.93	39.88	19.59	18.09	27.04	27.28	25.90	18.13	9.79	
-Mar (Min)	34.22	27.34	23.38	21.53	15.48	22.58	25.76	20.78	18.45	27.04	14.39	12.68	18.13	9.79	
(WT,AVG)	34.44	27.36	23.39	21.53	15.48	22.58	37.16	20.99	18.48	27.04	18.24	17.12	18.13	9.79	
(Max)	35.84	27.41	23.45	21.53	15.48	22.65	39.88	21.07	18.50	27.04	27.28	25.90	18.13	9.79	
-Apr (Min)	36.05	29.45	25.65	23.35	19.95	24.85	25.76	23.05	20.05	27.04	15.29	13.58	18.13	9.79	
(WT,AVG)	36.20	29.45	25.65	23.35	19.95	24.85	37.16	23.05	20.05	27.04	18.95	17.78	18.13	9.79	
(Max)	37.23	29.45	25.65	23.35	19.95	24.85	39.88	23.05	20.05	27.04	27.28	25.90	18.13	9.79	
-May (Min)	37.26	30.64	26.84	24.54	18.33	25.93	25.76	23.82	20.82	27.04	16.65	14.94	18.13	9.79	
(WT,AVG)	37.40	30.66	26.86	24.54	18.33	26.02	37.16	23.84	20.84	27.04	20.03	18.77	18.13	9.79	
(Max)	38.26	30.66	26.86	24.54	18.33	26.06	39.88	23.84	20.84	27.04	27.28	25.90	18.13	9.79	
-Jun (Min)	38.82	32.72	28.92	26.62	19.62	28.12	25.76	26.68	23.81	27.04	18.88	17.17	18.13	9.79	
(WT,AVG)	38.93	32.72	28.92	26.62	19.62	28.12	37.16	26.68	23.81	27.04	21.80	20.40	18.13	9.79	
(Max)	39.94	32.72	28.92	26.62	19.62	28.12	39.88	26.68	23.83	27.04	27.28	25.90	18.13	9.79	
-Jul (Min)	38.30	33.00	29.39	27.09	20.63	28.59	25.76	26.96	24.16	27.04	19.48	17.77	18.13	9.79	
(WT,AVG)	38.46	33.00	29.39	27.09	20.63	28.59	37.16	26.96	24.16	27.04	22.27	20.84	18.13	9.79	
(Max)	39.17	33.00	29.39	27.09	20.63	28.59	39.88	26.96	24.16	27.04	27.28	25.90	18.13	9.79	
-Aug (Min)	40.20	35.38	31.78	29.48	22.49	30.98	26.43	28.17	26.30	27.04	20.64	18.93	18.13	9.79	
(WT,AVG)	40.39	35.40	31.80	29.48	22.49	30.99	37.24	28.18	26.31	27.04	23.19	21.68	18.13	9.79	
(Max)	41.20	35.43	31.83	29.48	22.49	31.03	39.88	28.19	26.35	27.04	27.28	25.90	18.13	9.79	
-Sep (Min)	39.50	34.70	31.10	28.78	21.92	30.30	26.56	26.83	25.40	27.04	20.27	18.56	18.13	9.79	
(WT,AVG)	39.68	34.70	31.10	28.78	21.92	30.33	37.25	26.83	25.40	27.04	22.90	21.42	18.13	9.79	
(Max)	40.50	34.70	31.10	28.78	21.92	30.38	39.88	26.83	25.40	27.04	27.28	25.90	18.13	9.79	
-Oct (Min)	38.91	34.08	30.48	28.18	18.72	29.68	26.75	26.66	25.26	27.04	20.43	18.72	18.13	9.79	
(WT,AVG)	39.09	34.08	30.48	28.18	18.72	29.68	37.28	26.67	25.26	27.04	23.02	21.53	18.13	9.79	
(Max)	39.88	34.08	30.48	28.18	18.72	29.68	39.88	26.69	25.29	27.04	27.28	25.90	18.13	9.79	
-Nov (Min)	40.34	35.34	31.74	29.44	18.72	30.94	27.16	28.19	26.79	27.04	21.29	19.58	18.13	9.79	
(WT,AVG)	40.48	35.34	31.74	29.44	18.72	30.94	37.33	28.19	26.79	27.04	23.71	22.16	18.13	9.79	
(Max)	41.14	35.34	31.74	29.44	18.72	30.94	39.88	28.19	26.79	27.04	27.28	25.90	18.13	9.79	
-Dec (Min)	40.02	35.02	31.42	29.12	18.72	30.62	27.16	27.63	26.23	27.04	21.28	19.57	18.13	9.79	
(WT,AVG)	40.16	35.03	31.42	29.12	18.72	30.63	37.33	27.63	26.23	27.04	23.70	22.15	18.13	9.79	
(Max)	40.82	35.07	31.47	29.12	18.72	30.74	39.88	27.67	26.27	27.04	27.28	25.90	18.13	9.79	

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Products	1. Gasoline					2. Kerosene	3. Diesel			4. Fuel Oil			5. LPG			Unit : Baht/Litre
	ULG95	UGR91	Gasohol 95		Gasohol 91		HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile		
			(E10)	(E20)										(E85)	(Baht/kg)	
2010 (Min)	41.12	36.08	32.30	29.96	19.21	28.68	28.64	27.50	27.04	21.06	19.35	18.13		18.13	9.79	
(WT.AVG)	41.26	36.10	32.35	29.96	19.21	30.85	28.69	27.55	27.04	23.59	22.04	18.13		18.13	9.79	
(Max)	41.90	36.13	32.40	29.96	19.21	39.88	28.72	27.58	27.04	27.28	25.90	18.13		18.13	9.79	
-Jan (Min)	40.92	35.92	32.32	30.02	18.72	27.16	28.09	26.75	27.04	21.86	20.15	18.13		18.13	9.79	
(WT.AVG)	41.06	35.92	32.32	30.02	18.72	31.52	28.09	26.76	27.04	24.16	22.58	18.13		18.13	9.79	
(Max)	41.72	35.92	32.34	30.02	18.72	31.54	28.09	26.78	27.04	27.28	25.90	18.13		18.13	9.79	
-Feb (Min)	41.38	36.38	32.78	30.48	18.72	31.44	27.93	26.73	27.04	21.12	19.41	18.13		18.13	9.79	
(WT.AVG)	41.51	36.38	32.78	30.48	18.72	31.47	27.93	26.73	27.04	23.57	22.04	18.13		18.13	9.79	
(Max)	42.14	36.38	32.78	30.48	18.72	31.48	27.93	26.73	27.04	27.28	25.90	18.13		18.13	9.79	
-Mar (Min)	42.15	37.15	33.55	31.25	19.07	32.05	28.94	27.74	27.04	21.21	19.50	18.13		18.13	9.79	
(WT.AVG)	42.29	37.15	33.55	31.25	19.07	32.05	28.94	27.74	27.04	23.64	22.10	18.13		18.13	9.79	
(Max)	42.89	37.15	33.55	31.25	19.07	32.05	28.94	27.74	27.04	27.28	25.90	18.13		18.13	9.79	
-Apr (Min)	42.59	37.53	33.87	31.57	20.07	32.37	29.01	28.44	27.04	21.47	19.76	18.13		18.13	9.79	
(WT.AVG)	42.72	37.56	33.90	31.57	20.07	32.39	29.67	28.47	27.04	23.85	22.29	18.13		18.13	9.79	
(Max)	43.37	37.61	33.95	31.57	20.07	32.45	29.72	28.52	27.04	27.28	25.90	18.13		18.13	9.79	
-May (Min)	41.40	36.40	32.60	30.30	20.06	31.10	29.20	28.00	27.04	21.32	19.60	18.13		18.13	9.79	
(WT.AVG)	41.51	36.40	32.60	30.30	20.06	31.10	29.20	28.00	27.04	23.77	22.21	18.13		18.13	9.79	
(Max)	42.20	36.40	32.60	30.30	20.06	31.10	29.20	28.00	27.04	27.28	25.90	18.13		18.13	9.79	
-Jun (Min)	40.46	35.42	31.24	29.32	19.42	30.12	28.24	27.69	27.04	20.34	18.63	18.13		18.13	9.79	
(WT.AVG)	40.57	35.44	31.58	29.34	19.42	30.14	28.06	27.12	27.04	23.07	21.54	18.13		18.13	9.79	
(Max)	41.26	35.46	31.66	29.36	19.42	30.16	28.11	27.21	27.04	27.28	25.90	18.13		18.13	9.79	
-Jul (Min)	40.37	35.37	31.49	29.27	19.11	30.07	28.19	27.04	27.04	20.51	18.80	18.13		18.13	9.79	
(WT.AVG)	40.52	35.37	31.56	29.27	19.11	30.07	28.19	27.04	27.04	23.20	21.67	18.13		18.13	9.79	
(Max)	41.17	35.37	31.59	29.27	19.11	30.09	28.24	27.14	27.04	27.28	25.90	18.13		18.13	9.79	
-Aug (Min)	40.52	35.52	31.72	29.42	19.01	30.22	28.65	28.58	27.04	20.86	19.14	18.13		18.13	9.79	
(WT.AVG)	40.68	35.52	31.72	29.42	19.01	30.22	28.58	27.38	27.04	23.48	21.92	18.13		18.13	9.79	
(Max)	41.32	35.52	31.72	29.42	19.01	30.22	28.58	27.38	27.04	27.28	25.90	18.13		18.13	9.79	
-Sep (Min)	39.44	34.44	30.64	28.34	18.42	29.14	28.46	26.59	27.04	20.22	18.51	18.13		18.13	9.79	
(WT.AVG)	39.60	34.44	30.64	28.34	18.42	29.14	28.46	26.59	27.04	22.97	21.46	18.13		18.13	9.79	
(Max)	40.24	34.44	30.64	28.34	18.42	29.14	28.46	26.59	27.04	27.28	25.90	18.13		18.13	9.79	
-Oct (Min)	40.38	35.33	31.53	29.23	18.87	30.03	29.23	28.56	27.04	20.68	18.96	18.13		18.13	9.79	
(WT.AVG)	40.54	35.35	31.57	29.23	18.87	30.05	29.23	28.58	27.04	23.34	21.79	18.13		18.13	9.79	
(Max)	41.19	35.40	31.64	29.23	18.87	30.14	29.23	28.56	27.04	27.28	25.90	18.13		18.13	9.79	
-Nov (Min)	41.21	36.06	32.26	29.96	19.23	30.76	29.26	28.06	27.04	21.25	19.54	18.13		18.13	9.79	
(WT.AVG)	41.34	36.08	32.31	29.96	19.23	30.79	29.26	28.07	27.04	23.78	22.20	18.13		18.13	9.79	
(Max)	41.89	36.21	32.47	29.96	19.23	30.97	29.34	28.14	27.04	27.28	25.90	18.13		18.13	9.79	
-Dec (Min)	42.60	37.45	33.63	30.30	19.82	31.20	29.89	29.14	27.04	21.85	20.14	18.13		18.13	9.79	
(WT.AVG)	42.75	37.55	33.70	30.30	19.82	31.23	29.93	29.21	27.04	24.26	22.64	18.13		18.13	9.79	
(Max)	43.39	37.68	33.84	30.30	19.82	31.50	30.10	29.35	27.04	27.28	25.90	18.13		18.13	9.79	

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline				2. Kerosene			3. Diesel		4. Fuel Oil			5. LPG		
	ULG95	UGR91	Gasohol 95		91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Cooking (Baht/kg)	Industry (Baht/kg)	Automobile (Baht/kg)		
			(E10)	(E20)	(E85)										
2011 (Min) (WT.AVG)	44.51	39.68	36.48	32.94	21.75	33.94	29.40	29.65	27.04	26.69	18.13	20.38	18.13	9.79	9.79
(Max)	44.64	39.72	36.52	32.94	21.75	33.96	29.45	29.95	27.04	26.68	18.13	20.38	18.13	9.79	9.79
-Jan (Min)	45.31	39.80	36.65	32.94	21.75	34.12	29.54	30.17	27.04	30.98	18.13	20.38	18.13	9.79	9.79
(WT.AVG)	43.88	39.05	34.75	31.36	20.54	32.25	29.99	29.57	27.04	22.80	18.13	18.13	18.13	9.79	9.79
(Max)	44.04	39.06	34.79	31.36	20.54	32.28	30.01	29.61	27.04	25.02	18.13	18.13	18.13	9.79	9.79
-Feb (Min)	44.88	39.08	34.91	31.36	20.54	32.42	29.99	29.72	27.04	27.28	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	44.92	40.13	35.77	32.37	21.11	33.27	29.99	29.99	27.04	25.26	18.13	18.13	18.13	9.79	9.79
(Max)	45.10	40.16	35.80	32.38	21.11	33.29	30.10	30.10	27.04	26.97	18.13	18.13	18.13	9.79	9.79
-Mar (Min)	45.97	40.20	35.84	32.39	21.12	33.34	30.38	30.38	27.04	28.91	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	47.19	42.11	37.30	33.91	22.02	34.80	29.96	29.55	27.04	26.85	18.13	18.13	18.13	9.79	9.79
(Max)	47.29	42.15	37.34	33.91	22.02	34.82	30.00	30.05	27.04	28.24	18.13	18.13	18.13	9.79	9.79
-Apr (Min)	47.96	42.29	37.47	33.91	22.02	34.95	29.99	30.12	27.04	30.50	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	48.62	43.41	38.51	35.11	22.68	36.01	30.22	30.22	27.04	27.25	18.13	18.13	18.13	9.79	9.79
(Max)	48.71	43.44	38.54	35.12	22.68	36.03	30.04	30.04	27.04	28.97	18.13	18.13	18.13	9.79	9.79
-May (Min)	49.22	43.51	38.62	35.12	22.69	36.12	29.99	30.22	27.04	31.43	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	48.48	43.09	38.19	34.79	22.47	35.69	29.99	29.99	27.04	27.20	18.13	18.13	18.13	9.79	9.79
(Max)	48.61	43.12	38.21	34.79	22.47	35.70	29.99	29.99	27.04	28.70	18.13	18.13	18.13	9.79	9.79
-Jun (Min)	49.22	43.29	38.33	34.79	22.47	35.83	30.00	30.00	27.04	31.09	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	47.81	42.41	37.51	34.11	22.22	35.01	29.99	29.99	27.04	27.27	18.13	18.13	18.13	9.79	9.79
(Max)	47.97	42.41	37.51	34.11	22.22	35.01	30.01	30.01	27.04	28.92	18.13	18.13	18.13	9.79	9.79
-Jul (Min)	48.61	42.41	37.53	34.11	22.22	35.03	30.10	30.10	27.04	31.39	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	48.43	43.02	38.12	34.68	22.52	35.62	29.99	29.99	27.04	27.27	18.13	18.13	18.13	9.79	9.79
(Max)	48.59	43.03	38.12	34.68	22.52	35.62	30.02	30.02	27.04	28.91	18.13	18.13	18.13	9.79	9.79
-Aug (Min)	49.22	43.06	38.16	34.68	22.52	35.66	30.08	30.08	27.04	31.38	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	46.16	40.90	37.07	33.05	21.95	34.55	29.51	29.51	27.04	27.22	18.13	18.13	18.13	9.79	9.79
(Max)	46.33	40.92	37.09	33.05	21.95	34.56	29.52	29.52	27.04	28.76	18.13	18.13	18.13	9.79	9.79
-Sep (Min)	46.90	40.94	37.16	33.05	21.95	34.66	29.58	29.58	27.04	31.16	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	40.24	36.18	36.23	32.06	21.81	33.24	27.96	27.96	27.04	27.28	18.13	18.13	18.13	9.79	9.79
(Max)	40.39	36.28	36.35	32.06	21.81	33.30	28.00	28.00	27.04	29.22	18.13	18.13	18.13	9.79	9.79
-Oct (Min)	41.06	36.34	36.50	32.06	21.81	33.47	28.05	28.05	27.04	31.75	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	40.00	35.97	35.97	31.95	21.69	32.94	27.79	27.79	27.04	27.28	18.13	18.13	18.13	9.79	9.79
(Max)	40.14	36.01	36.08	31.95	21.69	33.00	27.99	27.99	27.04	29.44	18.13	18.13	18.13	9.79	9.79
-Nov (Min)	40.90	36.06	36.30	31.95	21.69	33.27	27.83	27.83	27.04	32.00	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	39.40	35.25	34.09	31.23	21.18	32.22	28.70	28.70	27.04	27.28	18.13	18.13	18.13	9.79	9.79
(Max)	39.51	35.29	34.13	31.23	21.18	32.24	28.86	28.86	27.04	29.99	18.13	18.13	18.13	9.79	9.79
-Dec (Min)	40.21	35.49	34.43	31.23	21.18	32.63	28.95	28.95	27.04	32.38	18.13	18.13	18.13	9.79	9.79
(WT.AVG)	38.93	34.69	34.20	30.66	20.78	31.66	29.12	29.12	27.04	27.28	18.13	18.13	18.13	9.79	9.79
(Max)	39.02	34.73	34.23	30.66	20.78	31.67	29.12	29.12	27.04	29.86	18.13	18.13	18.13	9.79	9.79
	39.61	34.98	34.52	30.66	20.78	32.03	29.12	29.12	27.04	32.52	18.13	18.13	18.13	9.79	9.79



APPENDIX I

ENERGY STATISTICS OF THAILAND 2012 รายงานสถิติพลังงานของประเทศไทย 2555

CHAPTER 8

AIR POLLUTION EMISSION IN THE ENERGY SECTOR

บทที่ 8

การปล่อยมลพิษทางอากาศในภาคพลังงาน

POWER GENERATION

TRANSPORTATION

INDUSTRY

OTHER ECONOMIC SECTORS



Table 8.1-1M
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2007				
Jan	7,212	5,108	4,503	16,823
Feb	6,709	4,557	4,274	15,540
Mar	7,584	4,858	5,172	17,614
Apr	7,072	4,938	4,697	16,706
May	7,024	4,461	5,113	16,598
Jun	7,096	4,509	5,062	16,667
Jul	6,797	4,978	5,023	16,798
Aug	7,063	5,448	5,079	17,590
Sep	6,759	4,572	4,865	16,196
Oct	7,111	4,831	5,016	16,958
Nov	6,939	4,592	4,767	16,299
Dec	7,213	4,777	4,661	16,651
YTD	84,577	57,629	58,232	200,439
2008				
Jan	7,091	5,462	4,831	17,384
Feb	6,577	5,179	4,737	16,493
Mar	7,265	5,415	5,249	17,929
Apr	7,120	5,512	4,901	17,532
May	6,741	5,476	5,580	17,798
Jun	6,086	5,311	5,400	16,798
Jul	5,905	5,142	5,745	16,791
Aug	6,166	5,099	5,720	16,985
Sep	5,929	5,253	5,395	16,577
Oct	6,337	5,334	5,541	17,212
Nov	6,219	4,681	4,930	15,830
Dec	6,980	4,291	4,594	15,864
YTD	78,416	62,154	62,624	203,195
2009				
Jan	7,181	4,972	4,384	16,537
Feb	6,149	4,502	4,804	15,456
Mar	6,916	4,948	5,637	17,501
Apr	6,667	5,606	5,204	17,477
May	6,960	5,451	5,688	18,099
Jun	6,350	5,804	5,680	17,833
Jul	6,498	5,636	5,629	17,763
Aug	6,433	5,266	5,787	17,485
Sep	6,234	5,307	5,831	17,373
Oct	6,619	4,732	6,031	17,383
Nov	6,436	4,929	5,772	17,137
Dec	7,313	5,248	5,597	18,158
YTD	79,756	62,401	66,045	208,202

Table 8.1-1M (Cont.)
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	6,745	5,122	5,655	17,522
Feb	6,616	4,652	5,764	17,032
Mar	7,239	5,776	6,382	19,397
Apr	6,667	5,680	6,139	18,485
May	6,781	5,728	6,659	19,168
Jun	6,597	5,495	6,629	18,721
Jul	6,764	5,345	6,494	18,603
Aug	6,468	5,397	6,437	18,302
Sep	6,320	5,245	6,458	18,024
Oct	6,437	5,250	6,560	18,248
Nov	6,871	5,378	6,284	18,532
Dec	7,189	4,788	6,372	18,348
YTD	80,694	63,856	75,833	220,383
2011				
Jan	7,007	5,445	5,846	18,298
Feb	6,548	5,016	5,747	17,311
Mar	7,302	5,670	6,532	19,504
Apr	7,089	5,406	6,046	18,542
May	7,187	5,572	6,755	19,513
Jun	7,056	5,357	6,597	19,010
Jul	6,932	5,574	6,479	18,985
Aug	6,962	5,473	6,731	19,166
Sep	6,773	5,313	6,291	18,376
Oct	6,638	5,255	5,878	17,771
Nov	6,611	4,636	5,715	16,962
Dec	7,637	4,480	5,903	18,020
YTD	83,741	63,197	74,520	221,458
Growth Rate (%)				
2007	-3.1	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	1.7	0.4	5.5	2.5
2010	1.2	2.3	14.8	5.9
2011	3.8	-1.0	-1.7	0.5

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-2M
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2007					
Jan	6,670	4,784	3,903	1,466	16,823
Feb	6,303	4,400	3,495	1,341	15,540
Mar	7,338	4,986	3,788	1,502	17,614
Apr	6,612	4,637	4,073	1,385	16,706
May	7,328	4,615	3,249	1,407	16,598
Jun	7,450	4,675	3,134	1,408	16,667
Jul	7,407	4,520	3,490	1,380	16,798
Aug	7,246	4,694	4,202	1,448	17,590
Sep	7,256	4,370	3,226	1,344	16,196
Oct	7,261	4,559	3,724	1,414	16,958
Nov	6,710	4,557	3,586	1,446	16,299
Dec	6,499	4,774	3,902	1,476	16,651
YTD	84,080	55,571	43,770	17,017	200,439
2008					
Jan	7,026	4,736	4,071	1,552	17,384
Feb	6,729	4,416	3,913	1,436	16,493
Mar	7,408	4,809	4,141	1,572	17,929
Apr	7,165	4,630	4,228	1,509	17,532
May	7,677	4,491	4,128	1,503	17,798
Jun	7,220	4,074	4,132	1,372	16,798
Jul	7,325	3,890	4,226	1,351	16,791
Aug	7,435	4,105	4,056	1,390	16,985
Sep	7,237	3,974	4,017	1,348	16,577
Oct	7,466	4,306	4,006	1,434	17,212
Nov	6,531	4,267	3,624	1,409	15,830
Dec	5,942	4,841	3,520	1,562	15,864
YTD	85,160	52,538	48,060	17,438	203,195
2009					
Jan	6,169	5,059	3,712	1,598	16,537
Feb	6,128	4,331	3,631	1,365	15,456
Mar	7,155	4,927	3,893	1,526	17,501
Apr	6,909	4,742	4,351	1,476	17,477
May	7,294	4,950	4,314	1,540	18,099
Jun	7,353	4,488	4,563	1,429	17,833
Jul	7,335	4,601	4,358	1,469	17,763
Aug	7,191	4,550	4,283	1,461	17,485
Sep	7,175	4,388	4,386	1,424	17,373
Oct	7,143	4,615	4,132	1,493	17,383
Nov	6,755	4,554	4,358	1,470	17,137
Dec	6,624	5,175	4,705	1,655	18,158
YTD	83,231	56,380	50,685	17,906	208,202

Table 8.1-2M (Cont.)
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2010					
Jan	7,190	4,786	3,990	1,557	17,522
Feb	6,911	4,707	3,907	1,508	17,032
Mar	7,796	5,101	4,852	1,647	19,397
Apr	7,639	4,743	4,578	1,526	18,485
May	8,130	4,825	4,653	1,560	19,168
Jun	7,740	4,726	4,732	1,524	18,721
Jul	7,521	4,789	4,729	1,563	18,603
Aug	7,657	4,610	4,527	1,509	18,302
Sep	7,372	4,535	4,642	1,476	18,024
Oct	7,698	4,629	4,411	1,510	18,248
Nov	7,262	4,943	4,728	1,599	18,532
Dec	7,051	5,192	4,425	1,681	18,348
YTD	89,965	57,587	54,173	18,658	220,383
2011					
Jan	7,253	5,039	4,351	1,654	18,298
Feb	6,805	4,709	4,276	1,522	17,311
Mar	7,708	5,258	4,818	1,720	19,504
Apr	7,259	5,085	4,529	1,668	18,542
May	7,980	5,196	4,640	1,696	19,513
Jun	7,567	5,057	4,738	1,648	19,010
Jul	7,717	4,866	4,775	1,627	18,985
Aug	7,639	4,947	4,908	1,672	19,166
Sep	7,184	4,794	4,777	1,621	18,376
Oct	7,017	4,688	4,457	1,609	17,771
Nov	6,638	4,709	4,008	1,607	16,962
Dec	6,394	5,458	4,322	1,846	18,020
YTD	87,162	59,806	54,600	19,891	221,458
Growth Rate (%)					
2007	3.8	1.4	6.6	4.9	3.8
2008	1.3	-5.5	9.8	2.5	1.4
2009	-2.3	7.3	5.5	2.7	2.5
2010	8.1	2.1	6.9	4.2	5.9
2011	-3.1	3.9	0.8	6.6	0.5

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-3M
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2007				
Jan	225	2,646	3,800	6,670
Feb	237	2,422	3,644	6,303
Mar	270	2,553	4,515	7,338
Apr	263	2,303	4,047	6,612
May	245	2,669	4,413	7,328
Jun	249	2,795	4,406	7,450
Jul	209	2,843	4,355	7,407
Aug	217	2,684	4,344	7,246
Sep	271	2,804	4,182	7,256
Oct	302	2,718	4,240	7,261
Nov	230	2,471	4,008	6,710
Dec	234	2,368	3,898	6,499
YTD	2,952	31,276	49,852	84,080
2008				
Jan	112	2,890	4,024	7,026
Feb	101	2,684	3,944	6,729
Mar	131	2,881	4,396	7,408
Apr	157	2,963	4,045	7,165
May	107	2,891	4,680	7,677
Jun	86	2,609	4,525	7,220
Jul	90	2,497	4,738	7,325
Aug	94	2,611	4,729	7,435
Sep	86	2,767	4,384	7,237
Oct	85	2,839	4,542	7,466
Nov	77	2,455	3,999	6,531
Dec	84	2,223	3,635	5,942
YTD	1,211	32,310	51,639	85,160
2009				
Jan	46	2,776	3,347	6,169
Feb	42	2,295	3,791	6,128
Mar	43	2,649	4,464	7,155
Apr	40	2,740	4,129	6,909
May	43	2,718	4,533	7,294
Jun	43	2,829	4,481	7,353
Jul	44	2,850	4,442	7,335
Aug	44	2,579	4,568	7,191
Sep	45	2,558	4,571	7,175
Oct	57	2,394	4,692	7,143
Nov	44	2,249	4,462	6,755
Dec	52	2,296	4,277	6,624
YTD	543	30,932	51,757	83,231

Table 8.1-3M (Cont.)
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	67	2,796	4,326	7,190
Feb	70	2,407	4,433	6,911
Mar	91	2,857	4,848	7,796
Apr	70	2,792	4,777	7,639
May	71	2,840	5,218	8,130
Jun	66	2,527	5,146	7,740
Jul	79	2,447	4,995	7,521
Aug	68	2,692	4,897	7,657
Sep	63	2,398	4,911	7,372
Oct	62	2,624	5,012	7,698
Nov	65	2,486	4,711	7,262
Dec	61	2,275	4,714	7,051
YTD	833	31,143	57,989	89,965
2011				
Jan	60	2,972	4,221	7,253
Feb	67	2,557	4,181	6,805
Mar	67	2,982	4,659	7,708
Apr	62	2,885	4,312	7,259
May	59	3,052	4,869	7,980
Jun	72	2,813	4,682	7,567
Jul	88	3,091	4,538	7,717
Aug	68	2,819	4,753	7,639
Sep	71	2,783	4,329	7,184
Oct	68	2,920	4,029	7,017
Nov	51	2,544	4,043	6,638
Dec	60	2,334	4,000	6,394
YTD	794	33,753	52,616	87,162
Growth Rate (%)				
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.3	3.6	1.3
2009	-55.1	-4.3	0.2	-2.3
2010	53.3	0.7	12.0	8.1
2011	-4.7	8.4	-9.3	-3.1

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-4M
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2007				
Jan	4,758		25	4,784
Feb	4,374		26	4,400
Mar	4,953		33	4,986
Apr	4,604		33	4,637
May	4,579		35	4,615
Jun	4,638		38	4,675
Jul	4,480		40	4,520
Aug	4,650		44	4,694
Sep	4,323		47	4,370
Oct	4,506		53	4,559
Nov	4,498		59	4,557
Dec	4,708		66	4,774
YTD	55,071		500	55,571
2008				
Jan	4,662		74	4,736
Feb	4,337		79	4,416
Mar	4,716		93	4,809
Apr	4,531		99	4,630
May	4,377		113	4,491
Jun	3,949		126	4,074
Jul	3,740		150	3,890
Aug	3,939		165	4,105
Sep	3,803		171	3,974
Oct	4,114		192	4,306
Nov	4,078		189	4,267
Dec	4,646		195	4,841
YTD	50,891		1,647	52,538
2009				
Jan	4,848		211	5,059
Feb	4,115		216	4,331
Mar	4,678		249	4,927
Apr	4,522		220	4,742
May	4,709		241	4,950
Jun	4,241		247	4,488
Jul	4,344		257	4,601
Aug	4,280		270	4,550
Sep	4,125		263	4,388
Oct	4,337		278	4,615
Nov	4,276		278	4,554
Dec	4,872		302	5,175
YTD	53,347		3,033	56,380

Table 8.1-4M (Cont.)
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	4,508		278	4,786
Feb	4,428		279	4,707
Mar	4,784		317	5,101
Apr	4,455		288	4,743
May	4,524		302	4,825
Jun	4,411		316	4,726
Jul	4,466		324	4,789
Aug	4,284		326	4,610
Sep	4,203		332	4,535
Oct	4,281		348	4,629
Nov	4,586		357	4,943
Dec	4,812		379	5,192
YTD	53,742		3,845	57,587
2011				
Jan	4,665		374	5,039
Feb	4,334		375	4,709
Mar	4,842		417	5,258
Apr	4,709		376	5,085
May	4,767		429	5,196
Jun	4,627		430	5,057
Jul	4,429		437	4,866
Aug	4,500		447	4,947
Sep	4,361		434	4,794
Oct	4,288		400	4,688
Nov	4,365		344	4,709
Dec	5,019		439	5,458
YTD	54,905		4,901	59,806
Growth Rate (%)				
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	4.8		84.2	7.3
2010	0.7		26.8	2.1
2011	2.2		27.5	3.9

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-5M
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2007				
Jan	763	2,462	678	3,903
Feb	756	2,135	603	3,495
Mar	859	2,305	624	3,788
Apr	820	2,635	617	4,073
May	793	1,792	664	3,249
Jun	801	1,714	619	3,134
Jul	728	2,135	627	3,490
Aug	747	2,764	691	4,202
Sep	822	1,768	637	3,226
Oct	889	2,113	723	3,724
Nov	765	2,121	700	3,586
Dec	795	2,409	698	3,902
YTD	9,536	26,353	7,881	43,770
2008				
Jan	765	2,572	733	4,071
Feb	703	2,495	715	3,913
Mar	846	2,534	760	4,141
Apr	923	2,548	757	4,228
May	754	2,586	788	4,128
Jun	680	2,703	750	4,132
Jul	724	2,645	857	4,226
Aug	742	2,488	826	4,056
Sep	692	2,486	840	4,017
Oct	705	2,494	807	4,006
Nov	655	2,226	742	3,624
Dec	687	2,068	764	3,520
YTD	8,877	29,844	9,338	48,060
2009				
Jan	689	2,196	827	3,712
Feb	626	2,207	798	3,631
Mar	669	2,300	924	3,893
Apr	630	2,866	855	4,351
May	667	2,733	914	4,314
Jun	636	2,975	951	4,563
Jul	642	2,787	930	4,358
Aug	648	2,687	949	4,283
Sep	640	2,749	997	4,386
Oct	733	2,338	1,061	4,132
Nov	646	2,680	1,032	4,358
Dec	734	2,952	1,018	4,705
YTD	7,960	31,469	11,256	50,685

Table 8.1-5M (Cont.)
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	613	2,326	1,051	3,990
Feb	611	2,245	1,051	3,907
Mar	716	2,919	1,217	4,852
Apr	616	2,888	1,074	4,578
May	626	2,888	1,139	4,653
Jun	597	2,968	1,167	4,732
Jul	657	2,897	1,175	4,729
Aug	607	2,705	1,214	4,527
Sep	578	2,847	1,216	4,642
Oct	584	2,627	1,200	4,411
Nov	621	2,892	1,215	4,728
Dec	634	2,512	1,278	4,425
YTD	7,462	32,713	13,998	54,173
2011				
Jan	628	2,473	1,251	4,351
Feb	625	2,459	1,192	4,276
Mar	674	2,688	1,456	4,818
Apr	650	2,522	1,357	4,529
May	664	2,519	1,457	4,640
Jun	709	2,544	1,486	4,738
Jul	788	2,482	1,504	4,775
Aug	723	2,654	1,532	4,908
Sep	719	2,530	1,528	4,777
Oct	673	2,335	1,449	4,457
Nov	589	2,092	1,327	4,008
Dec	712	2,146	1,464	4,322
YTD	8,152	29,445	17,003	54,600
Growth Rate (%)				
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.3	18.5	9.8
2009	-10.3	5.4	20.5	5.5
2010	-6.3	4.0	24.4	6.9
2011	9.3	-10.0	21.5	0.8

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy

Table 8.1-6M
CO₂ Emission in Other Economics Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2007				
Jan	1,466			1,466
Feb	1,341			1,341
Mar	1,502			1,502
Apr	1,385			1,385
May	1,407			1,407
Jun	1,408			1,408
Jul	1,380			1,380
Aug	1,448			1,448
Sep	1,344			1,344
Oct	1,414			1,414
Nov	1,446			1,446
Dec	1,476			1,476
YTD	17,017			17,017
2008				
Jan	1,552			1,552
Feb	1,436			1,436
Mar	1,572			1,572
Apr	1,509			1,509
May	1,503			1,503
Jun	1,372			1,372
Jul	1,351			1,351
Aug	1,390			1,390
Sep	1,348			1,348
Oct	1,434			1,434
Nov	1,409			1,409
Dec	1,562			1,562
YTD	17,438			17,438
2009				
Jan	1,598			1,598
Feb	1,365			1,365
Mar	1,526			1,526
Apr	1,476			1,476
May	1,540			1,540
Jun	1,429			1,429
Jul	1,469			1,469
Aug	1,461			1,461
Sep	1,424			1,424
Oct	1,493			1,493
Nov	1,470			1,470
Dec	1,655			1,655
YTD	17,906			17,906

Table 8.1-6M (Cont.)
CO₂ Emission in Other Economics Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2010				
Jan	1,557			1,557
Feb	1,508			1,508
Mar	1,647			1,647
Apr	1,526			1,526
May	1,560			1,560
Jun	1,524			1,524
Jul	1,563			1,563
Aug	1,509			1,509
Sep	1,476			1,476
Oct	1,510			1,510
Nov	1,599			1,599
Dec	1,681			1,681
YTD	18,658			18,658
2011				
Jan	1,654			1,654
Feb	1,522			1,522
Mar	1,720			1,720
Apr	1,668			1,668
May	1,696			1,696
Jun	1,648			1,648
Jul	1,627			1,627
Aug	1,672			1,672
Sep	1,621			1,621
Oct	1,609			1,609
Nov	1,607			1,607
Dec	1,846			1,846
YTD	19,891			19,891
Growth Rate (%)				
2007	4.9			4.9
2008	2.5			2.5
2009	2.7			2.7
2010	4.2			4.2
2011	6.6			6.6

Notes : 1. CO₂ Emission Factors Reference from IPCC 2006

2. Emission Estimation Excluded Bunker Oil for Oversea, Jet Oil for International Flight and Renewable Energy





APPENDIX II



ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	เทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานเชิงพาณิชย์					COMMERCIAL ENERGY
1. น้ำมันดิบ (ลิตร)	8680	860.00	36.33	34.44	1. CRUDE OIL (litre)
2. คอนเดนเสท (ลิตร)	7900	782.72	33.07	31.35	2. CONDENSATE (litre)
3. ก๊าซธรรมชาติ					3. NATURAL GAS
3.1 ชื้น (ลูกบาศก์ฟุต)	248	24.57	1.04	0.98	3.1 WET (scf.)
3.2 แห้ง (ลูกบาศก์ฟุต)	244	24.18	1.02	0.97	3.2 DRY (scf.)
4. ผลิตภัณฑ์ปิโตรเลียม					4. PETROLEUM PRODUCTS
4.1 ก๊าซปิโตรเลียมเหลว (ลิตร)	6360	630.14	26.62	25.24	4.1 LPG (litre)
4.2 น้ำมันเบนซิน (ลิตร)	7520	745.07	31.48	29.84	4.2 GASOLINE (litre)
4.3 น้ำมันเครื่องบิน (ลิตร)	8250	817.40	34.53	32.74	4.3 JET FUEL (litre)
4.4 น้ำมันก๊าด (ลิตร)	8250	817.40	34.53	32.74	4.4 KEROSENE (litre)
4.5 น้ำมันดีเซล (ลิตร)	8700	861.98	36.42	34.52	4.5 DIESEL (litre)
4.6 น้ำมันเตา (ลิตร)	9500	941.24	39.77	37.70	4.6 FUEL OIL (litre)
4.7 ยางมะตอย (ลิตร)	9840	974.93	41.19	39.05	4.7 BITUMEN (litre)
4.8 ปิโตรเลียมโค้ก (กก.)	8400	832.26	35.16	33.33	4.8 PETROLEUM COKE (litre)
5. ไฟฟ้า (กิโลวัตต์ชั่วโมง)	860	85.21	3.60	3.41	5. ELECTRICITY (kWh)
6. ไฟฟ้าพลังน้ำ (กิโลวัตต์ชั่วโมง)	2236	221.54	9.36	8.87	6. HYDROELECTRIC (kWh)
7. พลังงานความร้อนใต้พิภพ (กิโลวัตต์ชั่วโมง)	9500	941.24	39.77	37.70	7. GEOTHERMAL (kWh)
8. ถ่านหินนำเข้า (กก.)	6300	624.19	26.37	25.00	8. COAL IMPORT (kg.)
9. ถ่านโค้ก (กก.)	6600	653.92	27.63	26.19	9. COKE (kg.)
10. แอนทราไซต์ (กก.)	7500	743.09	31.40	29.76	10. ANTHRACITE (kg.)
11. อีเทน (กก.)	11203	1110.05	46.89	44.45	11. ETHANE (kg.)
12. โพรเพน (กก.)	11256	1115.34	47.11	44.67	12. PROPANE (kg.)
13. ลิกไนต์					13. LIGNITE
13.1 ลี้ (กก.)	4400	435.94	18.42	17.46	13.1 LI (kg.)
13.2 กระบี่ (กก.)	2600	257.60	10.88	10.32	13.2 KRABI (kg.)
13.3 แม่เมาะ (กก.)	2500	247.70	10.47	9.92	13.3 MAE MOH (kg.)
13.4 แจ็คคอน (กก.)	3610	357.67	15.11	14.32	13.4 CHAE KHON (kg.)

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	ตันเทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานใหม่และหมุนเวียน					NEW & RENEWABLE ENERGY
1. ฟืน (กก.)	3820	378.48	15.99	15.16	1. FUEL WOOD (kg.)
2. ถ่าน (กก.)	6900	683.64	28.88	27.38	2. CHARCOAL (kg.)
3. แกลบ (กก.)	3440	340.83	14.40	13.65	3. PADDY HUSK (kg.)
4. กากอ้อย (กก.)	1800	178.34	7.53	7.14	4. BAGASSE (kg.)
5. ขยะ (กก.)	1160	114.93	4.86	4.60	5. GARBAGE (kg.)
6. ไม้เลื่อย (กก.)	2600	257.60	10.88	10.32	6. SAW DUST (kg.)
7. วัสดุเหลือใช้ ทางการเกษตร (กก.)	3030	300.21	12.68	12.02	7. AGRICULTURAL WASTE (kg.)
8. ก๊าซชีวภาพ (ลูกบาศก์เมตร)	5000	495.39	20.93	19.84	8. BIOGAS (m ³)

หน่วยทั่วไป GENERAL		
1 กิโลแคลอรี (kcal)	= 4186	จูล (joules)
	= 3.968	บีทียู (Btu)
1 ตันเทียบเท่าน้ำมันดิบ (toe)	= 10.093	จิกะแคลอรี (Gcal)
	= 42.244	จิกะจูล (GJ)
	= 40.047 x 10 ⁶	บีทียู (Btu)
1 บาร์เรล (barrel)	= 158.99	ลิตร (litres)
1 ลูกบาศก์เมตรของไม้ (cu.m. of solid wood)	= 600	กิโลกรัม (kg.)
1 ลูกบาศก์เมตรของถ่าน (kg. of charcoal)	= 250	กิโลกรัม (kg.)
5 กิโลกรัมของฟืน (kg. of fuel wood)	= 1 กิโลกรัมของถ่าน (kg. of charcoal product)	
1 ลิตรของก๊าซปิโตรเลียมเหลว (litre of LPG)	= 0.54	กิโลกรัม (kg.)

ที่มา : รายงานพลังงานของประเทศไทยรายปี กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน

Appendix II Abbreviations of the Sources Statistics

Abbreviation	Full Name	ชื่อไทย
%S	Percentage of Sulphur Contain	ร้อยละของกำมะถัน
AVG	Average	เฉลี่ย
BBL/D	Barrels per Day	บาร์เรลต่อวัน
BCP	Bangchak Petroleum Public Company Limited	บริษัทบางจากปิโตรเลียม จำกัด (มหาชน)
CNG	Compressed Natural Gas	ก๊าซธรรมชาติที่ใช้เป็นเชื้อเพลิงสำหรับยานยนต์
DEDP	Small Hydro From Kere Tan	โรงไฟฟ้าพลังน้ำคีรีธาร
DEDE	Department of Alternative Energy Development and Efficiency	กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน
DMF	Department of Mineral Fuels	กรมเชื้อเพลิงธรรมชาติ
DOEB	Department of Energy Business	กรมธุรกิจพลังงาน
EGAT	Electricity Generating Authority of Thailand	การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
ELEC.	Electricity	ไฟฟ้า
EPPO	Energy Policy and Planning Office	สำนักงานนโยบายและแผนพลังงาน
ESSO	Esso (Thailand) Public Company Limited	บริษัทเอสโซ่ (ประเทศไทย) จำกัด (มหาชน)
FO	Fuel Oil	น้ำมันเตา
GSP	Gas Separation Plant	โรงแยกก๊าซ
GWh	Gigawatt-hours	ล้านกิโลวัตต์ชั่วโมง
HSD	High Speed Diesel	ดีเซลหมุนเร็ว
IPP	Independent Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายใหญ่
IRPC	Integrated Refinery & Petrochemical Complex Public Company Limited	บริษัท ไออาร์พีซี จำกัด (มหาชน)
J.P.	Jet Fuel	น้ำมันเครื่องบิน
JDA	Joint Development Area	พื้นที่พัฒนาร่วมระหว่างไทยกับมาเลเซีย
KBD	1,000 Barrels/Day	พันบาร์เรลต่อวัน
ktoe	1,000 Tons of Crude Oil Equivalent	พันตันเทียบเท่าน้ำมันดิบ
kWh	Kilowatt-hours	กิโลวัตต์ชั่วโมง
LPG	Liquefied Petroleum Gas	ก๊าซปิโตรเลียมเหลว
LPG (Car)	Liquefied Petroleum Gas for Automobiles	ก๊าซปิโตรเลียมเหลวที่ใช้ในรถยนต์
LSD	Low Speed Diesel	ดีเซลหมุนช้า
M.Litres	Million litres	ล้านลิตร
MEA	Metropolitan Electricity Authority	การไฟฟ้านครหลวง
MMscfd	Million Standard Cubic Feet per Day	ล้านลูกบาศก์ฟุตต่อวัน
MW	Mega Watt	เมกะวัตต์
NAP	Naptha	เนฟทา
Nap.& Oths	Naphtha and Others	น้ำมันเนฟทาและอื่นๆ
NG	Natural Gas	ก๊าซธรรมชาติ
NGL	Natural Gas Liquid	ก๊าซโซลีนธรรมชาติ
NGV	Natural Gas for Vehicles	ก๊าซธรรมชาติสำหรับยานยนต์
PEA	Provincial Electricity Authority	การไฟฟ้าส่วนภูมิภาค
Pet.	Petroleum	น้ำมันสำเร็จรูป
PTTAR	PTT Aromatics and Refining Public Company Limited	บริษัท ปตท. อะโรมาติกส์และการกลั่น จำกัด (มหาชน)
REGCO	Rayong Electricity Generating Company Limited	บริษัท ผลิตไฟฟ้าระยอง จำกัด
RPC	Rayong Purifier Public Company Limited	บริษัทระยองเพียวริฟายเออร์ จำกัด (มหาชน)
SPP	Small Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายเล็ก
SPRC	Star Petroleum Refining Company Limited	บริษัทสตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด
TOC	Thai Oil Public Company Limited	บริษัทไทยออยล์ จำกัด (มหาชน)
IRPC	IRPC Public Company Limited	บริษัทไออาร์พีซี จำกัด (มหาชน)
UGR91	Regular Gasoline 91	เบนซินธรรมดา 91
ULG95	Premium Gasoline 95	เบนซินพิเศษ 95
VAT	Value Added Tax	ภาษีมูลค่าเพิ่ม
WT.AVG	Weighted Average	ค่าเฉลี่ยถ่วงน้ำหนัก
YTD	Year to Date	ข้อมูลตั้งแต่วันที่ 1 มกราคมปีนั้นๆ ถึงวันที่ออกรายงาน

รายชื่อผู้จัดทำรายงานสถิติพลังงานของประเทศไทย ปี 2555

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