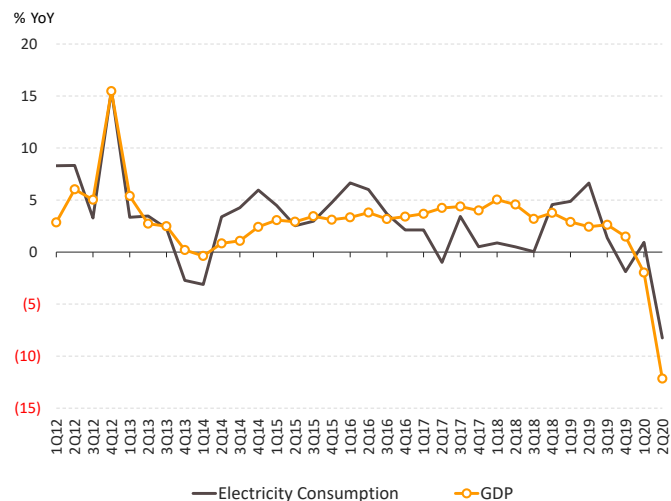
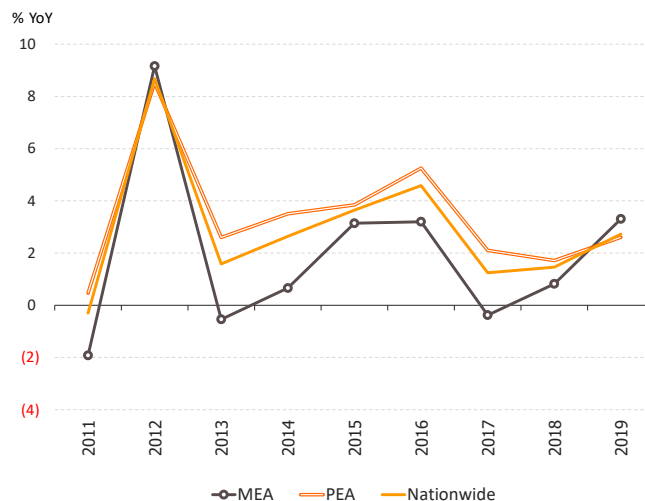


GDP & Electricity Consumption



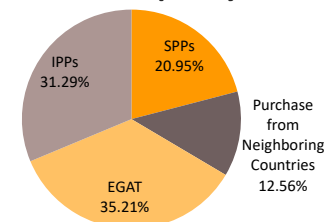
Source: EPPO, NESDC

Electricity Consumption by Area



Installed Generation Capacity

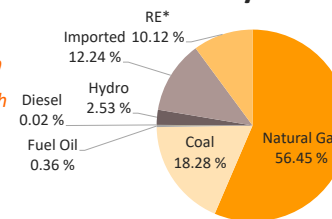
As of Jul, 2020
45,543.87 MW



Source: EGAT

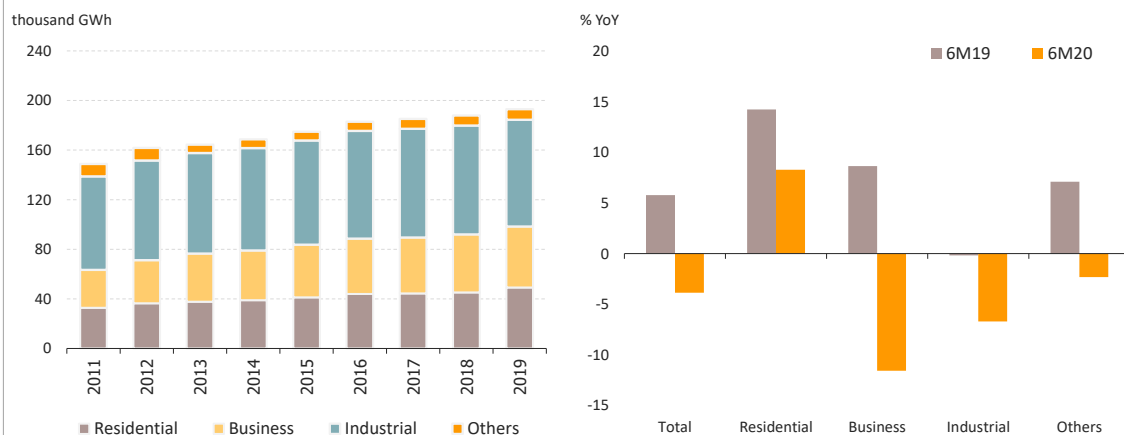
Power Generation by Fuel

Total Jan-Jun 2020
105,230.63 GWh



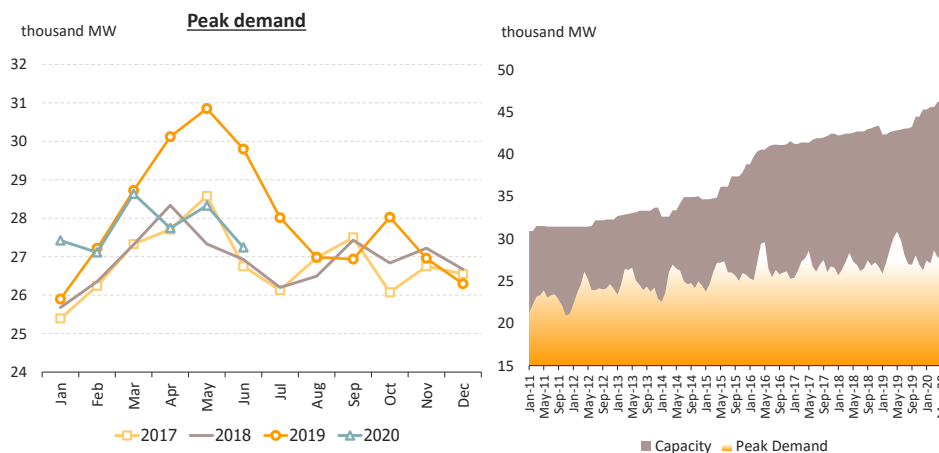
Note: On EGAT system / * Renewable Energy
Source: EPPO

Electricity Consumption by Sector



Source: EPPO

Peak Demand and Installed Generation Capacity



Source: EGAT

Electricity Consumption by Sector

Sectors	2018	2019	Unit: GWh		Growth (% YoY)	
			Jan-Jun		Jan-Jun	
			2019	2020	2019	2020
Residential	45,205	49,196	25,396	27,503	14.3	8.3
Business	46,764	49,131	24,936	22,049	8.6	-11.6
Industrial	87,829	86,106	43,396	40,484	-0.2	-6.7
Government and Non-Profit	204	211	106	103	3.7	-3.4
Agriculture	365	469	256	249	21.4	-2.8
Other	4,210	4,443	2,221	2,084	7.9	-6.2
Free of Charge	3,255	3,401	1,677	1,726	4.5	2.9
Total	187,832	192,956	97,988	94,198	5.8	-3.9

Source: EPPD

Peak Demand and Power Generation

Peak Demand (MW)

	2017	2018	2019	2020
Jan	25,390	25,677	25,898	27,423
Feb	26,240	26,352	27,215	27,112
Mar	27,326	27,314	28,722	28,637
Apr	27,708	28,338	30,120	27,747
May	28,578	27,331	30,853	28,328
Jun	26,747	26,928	29,800	27,240
Jul	26,130	26,201	28,015	
Aug	26,975	26,492	26,987	
Sep	27,500	27,430	26,937	
Oct	26,075	26,836	28,026	
Nov	26,749	27,221	26,958	
Dec	26,554	26,672	26,295	
Max	28,578	28,338	30,853	28,637

Source: EGAT, EPPD

Power Generation (GWh)

	2017	2018	2019	2020
Jan	15,509	16,007	16,374	17,383
Feb	14,915	15,055	16,178	16,699
Mar	18,033	18,147	19,020	18,925
Apr	16,881	16,709	18,582	16,932
May	17,931	17,983	19,491	18,168
Jun	17,231	17,520	18,377	17,124
Jul	17,030	17,444	18,168	
Aug	17,700	17,524	17,754	
Sep	17,419	17,077	17,014	
Oct	16,843	17,581	18,164	
Nov	16,272	16,912	17,007	
Dec	15,401	16,469	15,920	
Total	201,166	204,428	212,050	105,231

Installed Generation Capacity (July 2020)

Producers	Total Capacity	
	MW	% Share
EGAT	16,035	35.2
Purchase from Neighboring Countries	5,721	12.6
- Theun-Hinboun (Laos)	434	1.0
- Houay Ho (Laos)	126	0.3
- Nam Then 2 (Laos)	948	2.1
- Nam Ngum 2 (Laos)	597	1.3
- Xayaburi (Laos)	1,220	2.7
- Nam Ngiep (Laos)	269	0.6
- Xe-Pian Xe-Namnoy (Lao)	354	0.8
- Hongsa Power Plant	1,473	3.2
- EGAT-TNB Interconnection System	300	0.7
IPPs	14,249	31.3
- Electricity Generating PCL.	930	2.0
- Ratchaburi Electricity Generating Holding PCL.	3,481	7.6
- Global Power Synergy Co.,Ltd.	700	1.5
- Glow IPP Co.,Ltd.	713	1.6
- Eastern Power Co.,Ltd.	350	0.8
- BLCP Power Co.,Ltd.	1,347	3.0
- Gulf Power Generation Co.,Ltd.	1,468	3.2
- Ratchaburi Power Co.,Ltd.	1,400	3.1
- Gheco-One Co.,Ltd.	660	1.4
- Gulf JP NS Co.,Ltd.	1,600	3.5
- Gulf JP UT Co.,Ltd.	1,600	3.5
SPPs	9,540	20.9
Total	45,544	100.0

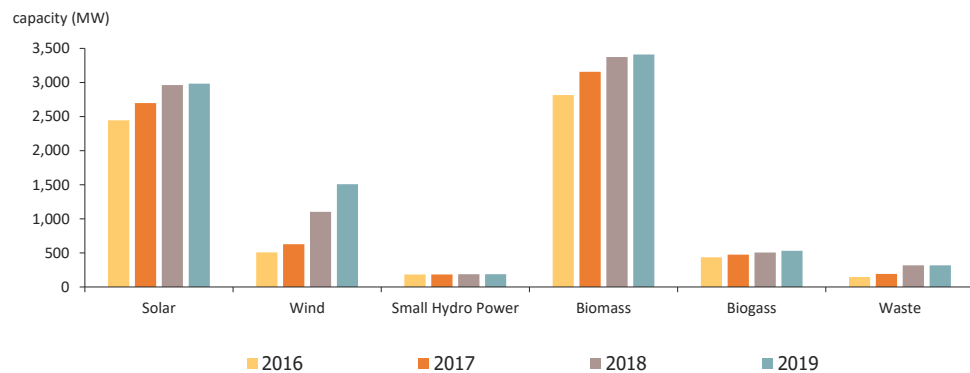
Source: EGAT

Power Generation by Fuel

Sectors	2018	2019	Unit: GWh		Growth (% YoY)	
			Jan-Jun		Jan-Jun	
			2019	2020	2019	2020
Natural Gas	116,265	121,841	62,904	59,405	9.0	-5.6
Coal&Lignite	35,796	35,825	18,134	19,238	-3.1	6.1
Fuel Oil	65	988	686	374	1551.1	-45.6
Diesel	112	137	34	20	-28.6	-39.6
Hydro Electricity	7,597	6,310	3,752	2,667	1.0	-28.9
Imported	26,669	25,547	11,916	12,882	-3.0	8.1
Renewable Energy	17,923	21,402	10,596	10,645	18.8	0.5
Total	204,428	212,050	108,022	105,231	6.5	-2.6

Notek: On EGAT System
Source: EPPD

Renewable Energy Consumption for Power Generation by Fuel Type



Note: Including off grid power generation (only renewable). Data was accumulated
Source: DEDE

Types of Energy	Target (year 2036)	2016	2017	2018	2019	Jan-May 20
Solar	6,000	2,446	2,697	2,962	2,983	2,983
Wind	3,002	507	628	1,103	1,507	1,507
Small Hydro Power ^{1/}	376	182	182	188	188	189
Biomass	5,570	2,815	3,157	3,373	3,410	3,465
Biogas ^{2/}	1,280	435	475	505	530	542
Waste ^{3/}	550	145	191	318	318	324
Large Hydro Power ^{4/}	2,906	2,906	2,906	2,920	2,920	2,920
Total	19,684.4	9,437	10,238	11,369	11,855	11,930

Note: 1/ Including hydro power plants < 12 MW & hydro power plant using the water downstream
2/ Including waste water / waste dumping and energy crop
3/ Including municipal solid waste and industrial waste
4/ The exiting installed capacity
Source: DEDE

Adder Tariff

Type of renewable energy	Adder rate (THB/kWh)	Special Adder for Diesel Replacement (THB/kWh)	Special Adder for Southernmost Province and 4 districts in Songkhla* (THB/kWh)	Year supported
1. Biomass				
Install Capacity ≤ 1 MW	0.50	1.00	1.00	7
Install Capacity >1 MW	0.30	1.00	1.00	7
2. Biogas				
Install Capacity ≤ 1 MW	0.50	1.00	1.00	7
Install Capacity >1 MW	0.30	1.00	1.00	7
3. Waste (MSW and Industries Waste, excluding Hazardous Waste and Organic Waste)				
Landfill and Digester	2.50	1.00	1.00	7
Thermal process	3.50	1.00	1.00	7
4. Wind				
Install Capacity ≤ 50 kW	4.50	1.50	1.50	10
Install Capacity > 50 kW	3.50	1.50	1.50	10
5. Small/Hydropower				
50 kW ≤ Install Capacity ≤ 200 kW	0.80	1.00	1.00	7
Install Capacity < 50 kW	1.50	1.00	1.00	7
6. Solar	6.50	1.50	1.50	10

Note: * 4 districts in Songkla province including, Chana, Thepha, Saba Yoi and Na Thawi
Source: EPPD

Feed-in Tariff for RE (VSPP) (COD within 2019)

Type of renewable energy	FiT (THB/kWh)			Period of support
	FiT(F)	FiT (V2019)	Total calculated FiT	
1. Biomass				
Capacity ≤ 1 MW	3.13	2.24	5.37	20
Capacity >1-3 MW	2.61	2.24	4.85	20
Capacity >3 MW	2.39	1.87	4.26	20
2. Biogas (waste water/other waste)				
All size	3.76	-	3.76	20
3. Biogas (energy crop)				
All size	2.79	2.58	5.37	20
4. MSW (waste management)				
Capacity ≤ 1 MW	3.13	3.25	6.38	20
Capacity >1-3 MW	2.61	3.25	5.86	20
Capacity >3 MW	2.39	2.72	5.11	20
5. MSW (landfill)	5.60	-	5.60	10
6. Industry waste (VSPP new plant)	3.39	2.72	6.11	10
7. Wind				
All size	6.06	-	6.06	20
8. Hydropower				
Capacity ≤200 kW	4.9	-	4.90	20
9. Solar				
Solar farm	5.66	-		25
Rooftop (residential)				
capacity 0-10 kWp	6.85	-		25
Rooftop (building/factory)				
capacity>10-250 kWp	6.40	-		25
capacity>250-1,000 kWp	6.01	-		25
10. SPP hybrid firm	1.81	1.87	3.68	20

Source: EPPO and ERC

Feed-in Tariff for RE (VSPP) (COD within 2020)

Type of renewable energy	FiT (THB/kWh)			Period of support
	FiT(F)	FiT (V2020)	Total calculated FiT	
1. Biomass				
Capacity ≤ 1 MW	3.13	2.25	5.38	20
Capacity >1-3 MW	2.61	2.25	4.86	20
Capacity >3 MW	2.39	1.88	4.27	20
2. Biogas (waste water/other waste)				
All size	3.76	-	3.76	20
3. Biogas (energy crop)				
All size	2.79	2.60	5.39	20
4. MSW (waste management)				
Capacity ≤ 1 MW	3.13	3.27	6.40	20
Capacity >1-3 MW	2.61	3.27	5.88	20
Capacity >3 MW	2.39	2.74	5.13	20
5. MSW (landfill)	5.60	-	5.60	10
6. Industry waste (VSPP new plant)	3.39	2.74	6.13	10
7. Wind				
All size	6.06	-	6.06	20
8. Hydropower				
Capacity ≤200 kW	4.9	-	4.90	20
9. Solar				
Solar farm	5.66	-		25
Rooftop (residential)				
capacity 0-10 kWp	6.85	-		25
Rooftop (building/factory)				
capacity>10-250 kWp	6.40	-		25
capacity>250-1,000 kWp	6.01	-		25
10. SPP hybrid firm	1.81	1.88	3.69	20

Source: EPPO and ERC