OVERVIEW & STATISTICS

THAILAND

67,989,800 | 513,140 km² | Electrification Ratio : 100 %

2018 Energy Supply

138,857 Ktoe

- Oil 50,073
- Natural Gas 44,974
- Coal 14,338
- Traditional Biomass 5,211
- Other Fuel 500
- Biomass 17,825
- Biofuel 2,556
- Electricity 2,179
- Hydro 633
- Solar & Wind 537
- Geothermal 1

2018 Energy Consumption by Fuel

Oil	34,596
Electricity	16,805
Biomass & Other RE	7,919
Coal	6,865
Natural Gas	5,769
Traditional Biomass	5,211
Biofuels	1,911

2018 Energy Consumption by Sector

79,076 Ktoe

Non-Energy	Agriculture	Commercial	Industry	Residential	Transportation
11,864 Ktoe	3.6 %	8.3 %	38.5 %	13.9 %	35.7 %

2018 Installed Capacity

50,456 MW

POWER PLANT

187,366 GWh

Geothermal	Hydro	Other RE*	Coal	Natural Gas	Oil
0.001 %	6.1 %	15.8 %	10.6 %	66.7 %	0.8 %

2018 Power Generation

*Other RE : including Bioenergy, Solar PV & Wind

ASEAN-German Energy Programme (AGEP)

Bioenergy = Biomass, Biofuel, Biogas & Waste-to-energy
GWh = Gigawatt hour
Ktoe = Kilotonnes of oil equivalent
MW = Megawatt

Source :
ASEAN Energy Database System,
ASEAN Centre for Energy

THE 6th ASEAN ENERGY OUTLOOK (AEO6) ANALYSIS

THAILAND

AMS Targets Scenario (ATS)

Energy Efficiency

Energy Intensity (TFEC / GDP)

30% ↓

2010 → 2036

Renewable Energy

2036 TFEC

RE 30%

- 15-20% RE Power plant sourced electricity
- 30-35% RE fueled heat
- 20-25% Biofuel share in TFEC

APAEC Targets Scenario (APS)

Power Generation

- Introducing solar rooftop in household.
- Increasing capacity of renewable energy above the national target.
- Implementing biomass co-firing in coal power plant.

Transportation

- Acceleration of biodiesel and ethanol blending ratio for road vehicles.
- Increasing the fuel economy / efficiency of road vehicles.
- Increasing the share of electric / hybrid vehicles on the road.

Residential

- EER ↑ Increasing penetration rate of a high-efficiency residential air conditioner.

Industrial & Commercial

- Increasing the rate of Energy Intensity (EI) reduction in the sectors compared to the national target.

ASEAN-German Energy Programme (AGEP)

AMS = ASEAN Member States
APAEC = ASEAN Plan of Action for Energy Cooperation
EER = Energy Efficiency Ratio
TFEC = Total Final Energy Consumption
GDP = Gross Domestic Product

Learn more about AEO here

ACTIVITIES AMIDST COVID-19 PANDEMIC

Collaboration with ACCEPT

Incentive for Renewable Energy

Board of Investment ▶ Incentive

- Upgrading technology for energy conservation
- Alternative energy utilization
- Reduction enviromental impacts

Sammitr Group	Thai Oil PCL	B.Grimm Power
Battery Electric Vehicles	Oil waste power plant	Natural gas-fired power plant
5.5 Billion THB Investment value	24.1 Billion THB Investment value	6 Billion THB Investment value
30,000 Vehicle/ Year Production output	250 MW Total capacity	157 MW Total capacity

Electricity

30-100 % OFF for 22 Million Citizen Work From Home

Oil and Gas

Public transport
- CNG
- 3 THB ▼

Cooking gas (15kg)
- LPG
- 45 THB ▼

April - September 2020

Ease the economic impact of the COVID-19 outbreak

Oil reserves reduction
- 6% ➡ 4%
- 21 ➡ 15 days of daily consumption

- +- 1 Year
- Help reducing the operational cost of oil refineries and traders
- Response to low demand due to pandemic

ASEAN-German Energy Programme (AGEP)

CNG = Compressed Natural Gas
LPG = Liquified Petroleum Gas
MW = Megawatt
THB = Thailand Baht

Learn more about ACCEPT here