The 17th APEC Workshop on Energy Statistics

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Oil and Gas Data Collection and Reporting in Thailand

Bubpha Kunathai
Energy Policy and Planning Office
Thailand
1. Oil and gas resources in Thailand
2. Oil and gas production and consumption in Thailand
3. Sources of oil and gas data in Thailand's energy balance table
5. Government regulations for oil and gas data collection
Oil and Gas Resources in Thailand

January – March 2019

Crude Oil

Domestic Production 11%

- Sirikit 24%
- Tantawan 19%
- Erawan 15%
- Jusmin 9%
- Manora 5%
- Songkha 5%
- Nongyao 6%
- Wasana 3%
- Bualuang 7%
- Others 7%

120 Thousand Barrels/Day

Gas

Domestic Production 73%

- Erawan 37%
- Bongkot 16%
- Bongkot Tai 6%
- Pailin 12%
- Arthit 8%
- JDA 15%
- Oths. 6%

3,526 MMSCFD

Domestic Production 73%
### Energy Reserves in Thailand

#### Reserves

<table>
<thead>
<tr>
<th>Energy Reserves</th>
<th>P1</th>
<th>P1+P2</th>
<th>P1+P2+P3</th>
<th>Production 2017</th>
<th>Available for use (year)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CRUDE OIL</strong></td>
<td>156</td>
<td>276</td>
<td>366</td>
<td>51</td>
<td>3 5 7</td>
</tr>
<tr>
<td>(MMBBL.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>CONDENSATE</strong></td>
<td>166</td>
<td>319</td>
<td>412</td>
<td>36</td>
<td>5 9 11</td>
</tr>
<tr>
<td>(MMBBL.)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>NATURAL GAS</strong></td>
<td>6,410</td>
<td>11,050</td>
<td>13,389</td>
<td>1,321</td>
<td>5 8 10</td>
</tr>
<tr>
<td>(BCF)</td>
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</tr>
</tbody>
</table>

**Remark:** P1 = PROVED RESERVES, P2 = PROBABLE RESERVES, P3 = POSSIBLE RESERVES

*Includes Malaysia-Thailand Joint Development Area

*Sources: Department of Mineral Fuels (DMF)*
Oil and Gas Production and Consumption in Thailand
Oil

January – March 2019

**Crude Oil**

- **Supply of Crude Oil**
  - Domestic Production: 11%
  - Import: 89%
  - Middle East: 57%
  - Far East: 13%
  - Others: 20%
- **Import**: 1,119 Thousand Barrels/Day

**Petroleum Products**

- **Production**
  - Increase: 1.0%
  - 188 Million Liters/Day
- **Consumption**
  - Increase: 0.6%
  - 149 Million Liters/Day
- **Import**
  - Increase: 29%
  - 13 Million Liters/Day
- **Export**
  - Decrease: 8.9%
  - 29 Million Liters/Day

**Production of Condensate**

- Increase: 1.0%
- 101 Thousand Barrels/Day

**Material Intake**

- 1,146 Thousand Barrels/Day
- Capacity: 1,235 Thousand Barrels/Day
Consumption of LPG has decreased since 2015 while consumption of the other petroleum products have increased especially diesel and gasoline which were used in transport sector
Supply

Myanmar 16%
- Yadana 9%
- Yetakun 3%
- Zawtika 4%

LNG 11%

Domestic Production 73%
(3,526 MMSCFD)

Import 27%
(1,287 MMSCFD)

Demand

Electricity 59%
GSP 21%
Industry 16%
NGV 4%

4,813 MMscfd - 0.9%
4,709 MMscfd + 2.3%
Data Sources

- Thailand’s National Energy Statistic has two sources EPPO and DEDE.

- **EPPO** compiles energy data from many original sources to EPPO’s Data base and reports it monthly.

- **DEDE** also compiles, surveys and estimates. However DEDE focuses more in EE RE and more in detail in sector consumption.

**Original sources of data are DMF, DOEB, PTT and etc.**
EPPO compiles energy data from many original sources

- **Indigenous production**
  - DMF and PTT

- **Imports and exports**
  - DOEB

- **Refinery intake**
  - DOEB

- **Consumption (in power generation, other transformation and final consumption)**
  - Power gen: EGAT, PEA and MEA
  - Gas Separation: PTT
  - Oil and Gas consumption: DOEB and PTT

**Sources:**
- DOEB: Department of Energy Business
- DMF: Department of Mineral Fuels
- EGAT: Electricity Generating Authority of Thailand
- MEA: Metropolitan Electricity Authority
- PEA: Provincial Electricity Authority
- PTT: PTT Public Company Limited
Challenges in Oil and Gas Data Collection in Thailand

- EPPO as collector and compiler from original sources (a secondary data)
  - Delay from original sources (hardly occur in oil and gas)
  - Data Revise and Up-to-Date without any notification
  - Definition: different understanding and concept
  - Many data sets from the same source but different units can get
  - Error: statistic, system, human and sources, can happen in every place
  - Consistency: hardly occur in oil and gas
  - Learning: system, new data
  - Dissemination challenges: too many channels
  - New requirements and technology
  - Etc.
• So far so good
• National Energy Information Center (NEIC) under law
Thank you for Your attention