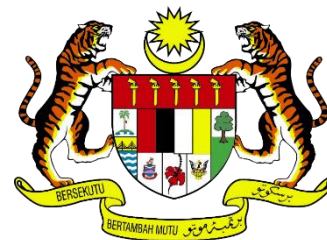




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MALAYSIA's Update

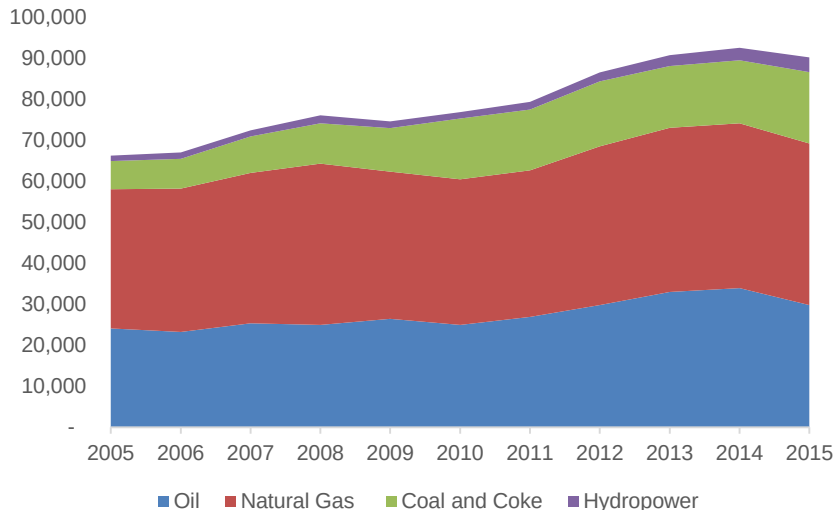
OIL AND GAS SECURITY

Ahmad Zuhairi Muzakir
Principal Assistant Director
Economic Planning Unit
Prime Minister's Department

29 – 30 JUNE 2017

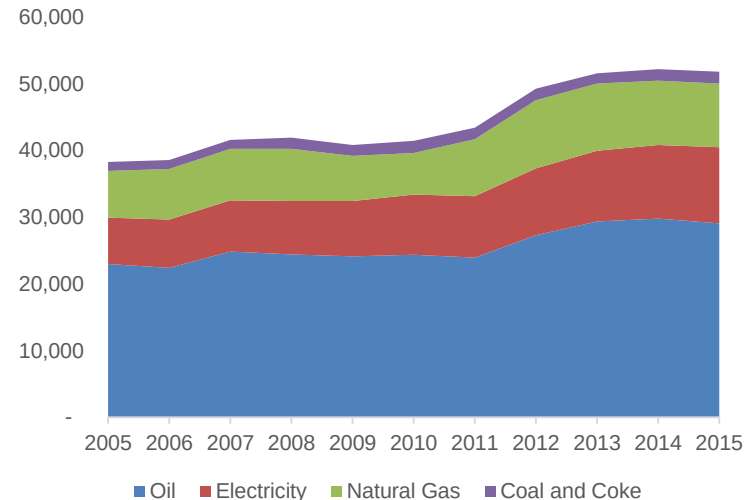
Oil and Gas Supply and Demand Situation Malaysia

Primary Energy Supply 2005 – 2015, ktce



- Total Energy Supply in 2015 is 90,188 ktce
- For period 2005 to 2015, oil and natural gas share of primary energy supply is at about 82%
- Average annual growth rate (2005 to 2015)
 - Oil – 2.16%; and
 - Natural gas – 1.50%.

Final Energy Consumption 2005 – 2015, ktce



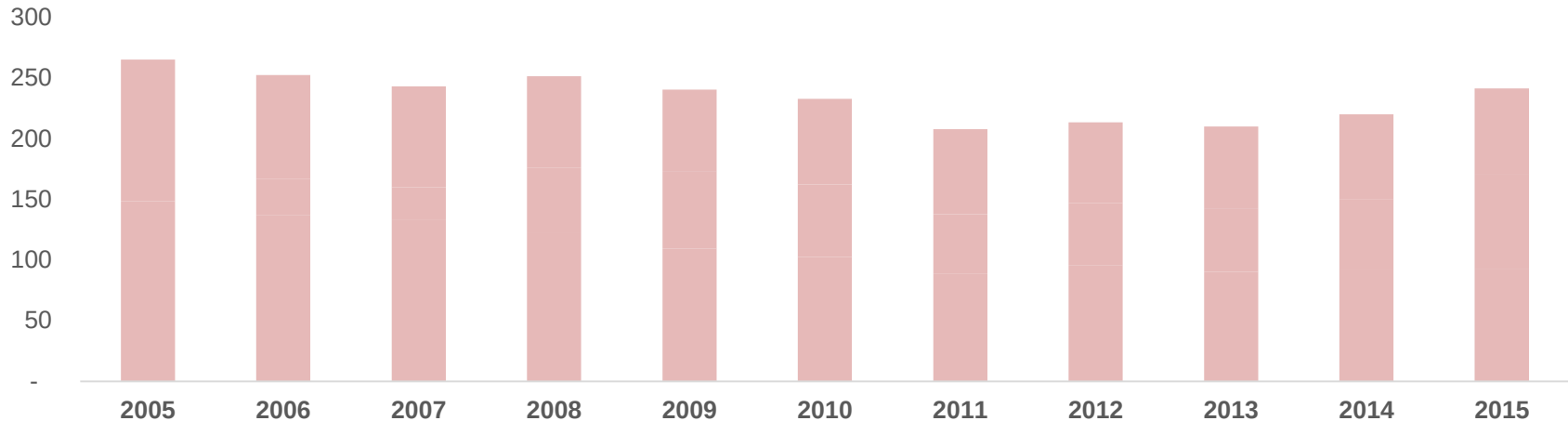
- Final Energy Consumption in 2015 is 51,829 ktce
- For period 2005 to 2015, oil and natural gas share of final energy consumption is at about 76%
- Average annual growth rate (2005 to 2015)
 - Oil – 2.37%; and
 - Natural gas – 3.20%.

Malaysia at the moment is self sufficient for oil and natural gas. However, for certain petroleum product especially gasoline, Malaysia is in a net importer situation

Oil and Gas Supply and Demand Situation Malaysia

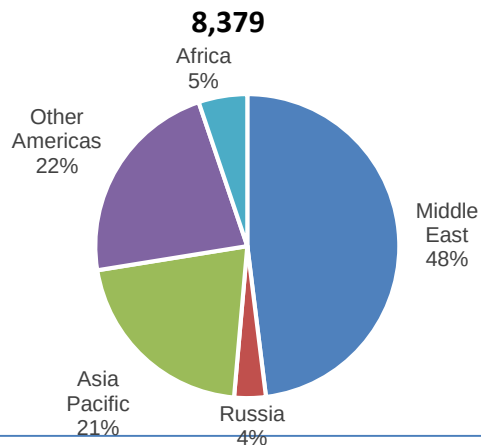
Crude Oil Production 2005 - 2015

Unit: thousand barrels



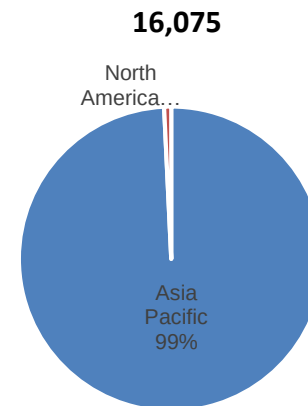
Crude Oil Import by Region, 2015

Unit: Kilo tonnes



Crude Oil Export by Region, 2015

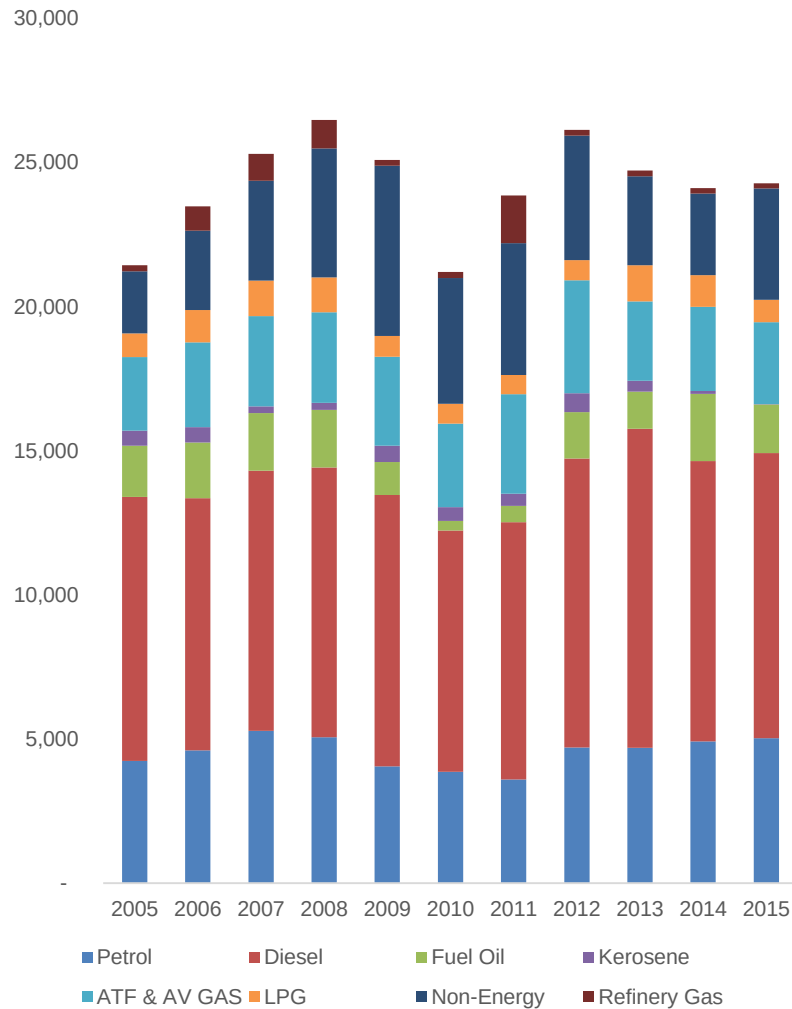
Unit: Kilo tonnes



Oil and Gas Supply and Demand Situation Malaysia

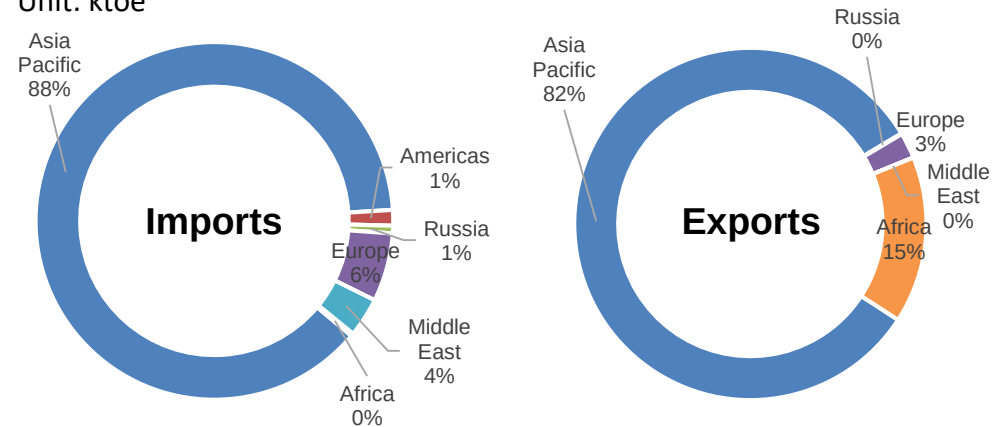
Refined Petroleum Products from Refineries 2005 – 2015

Unit: ktoe



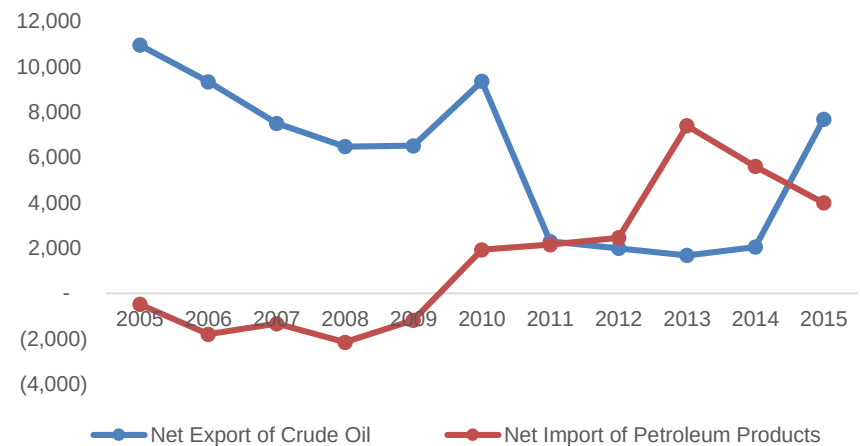
Petroleum Products Imports and Exports Destination

Unit: ktoe



Net Export/Import of Oil 2005 - 2015

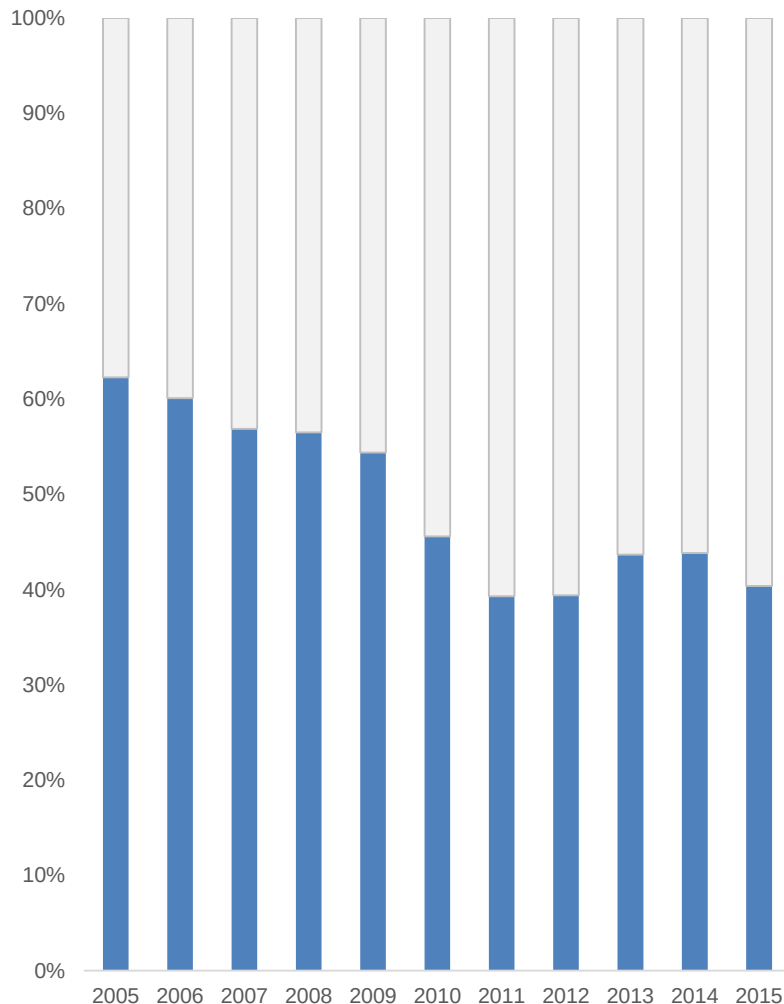
Unit: ktoe



Oil and Gas Supply and Demand Situation Malaysia

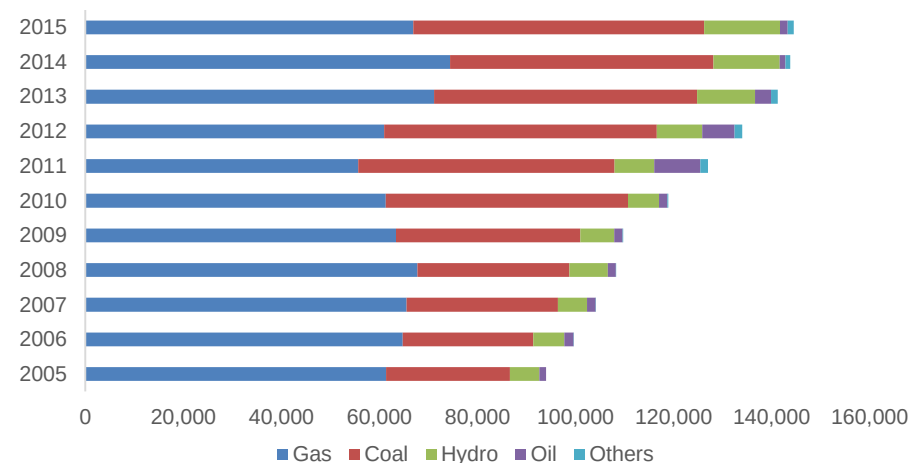
Natural Gas Input into Power Plant, 2005 – 2015

Unit: %



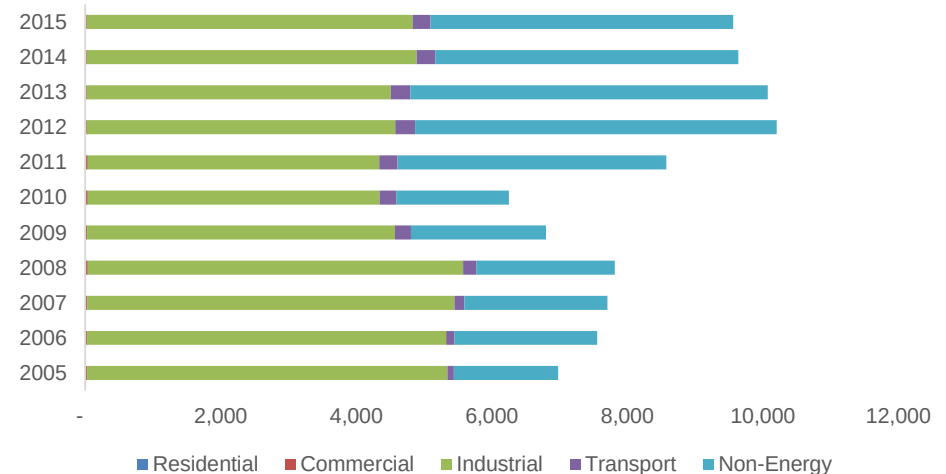
Generation Mix by Fuel Type, 2005 - 2015

Unit: GWh



Natural Gas Consumption by Non Power, 2005 - 2015

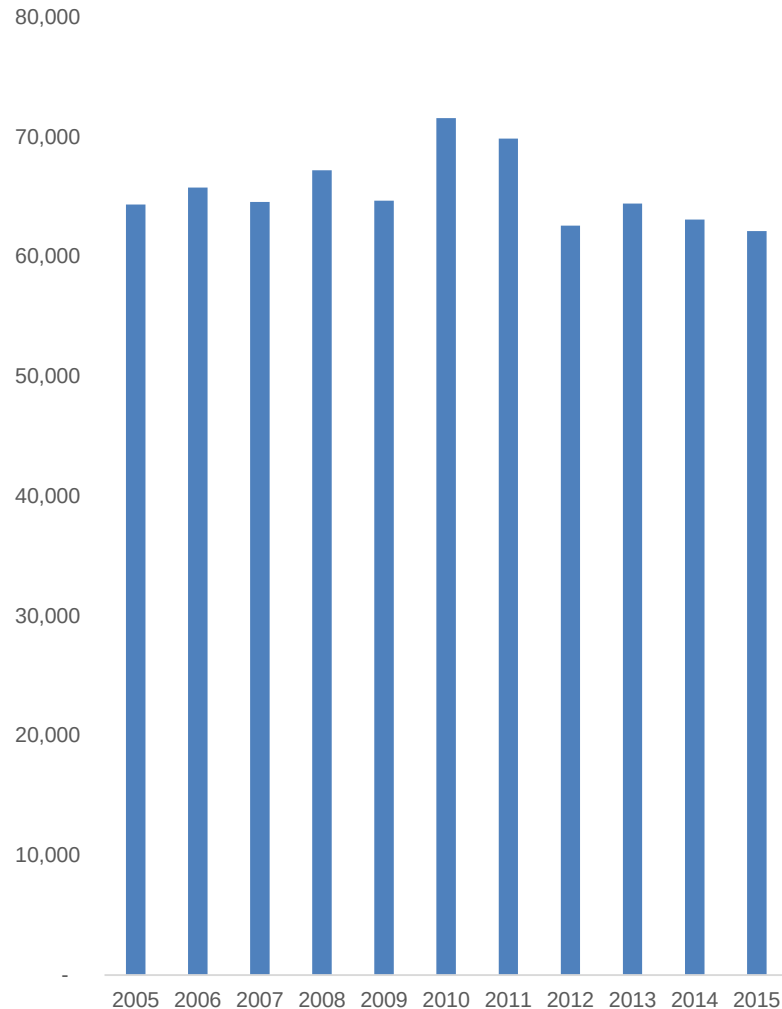
Unit: ktoe



Oil and Gas Supply and Demand Situation Malaysia

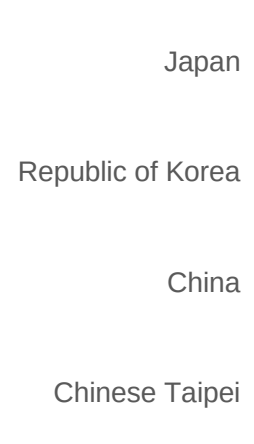
Natural Gas Production, 2005 - 2015

Unit: ktce



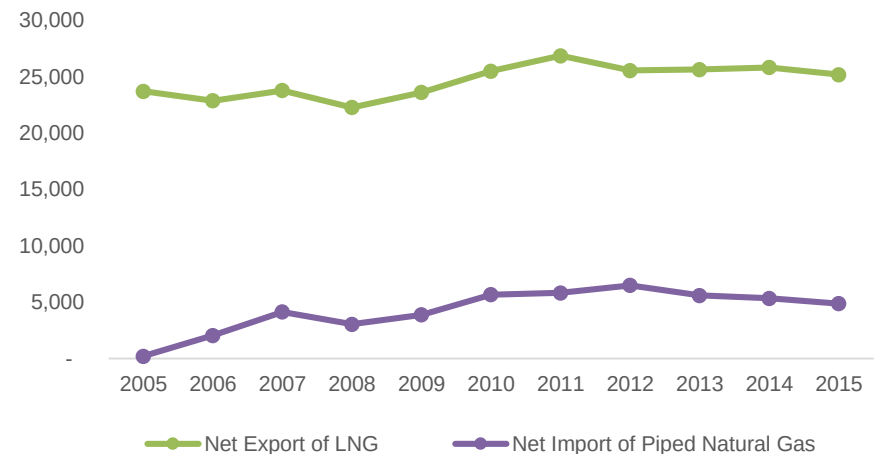
LNG Export by Destination, 2015

Unit: ktce



Net Export/Import of Gas 2005 - 2015

Unit: ktce



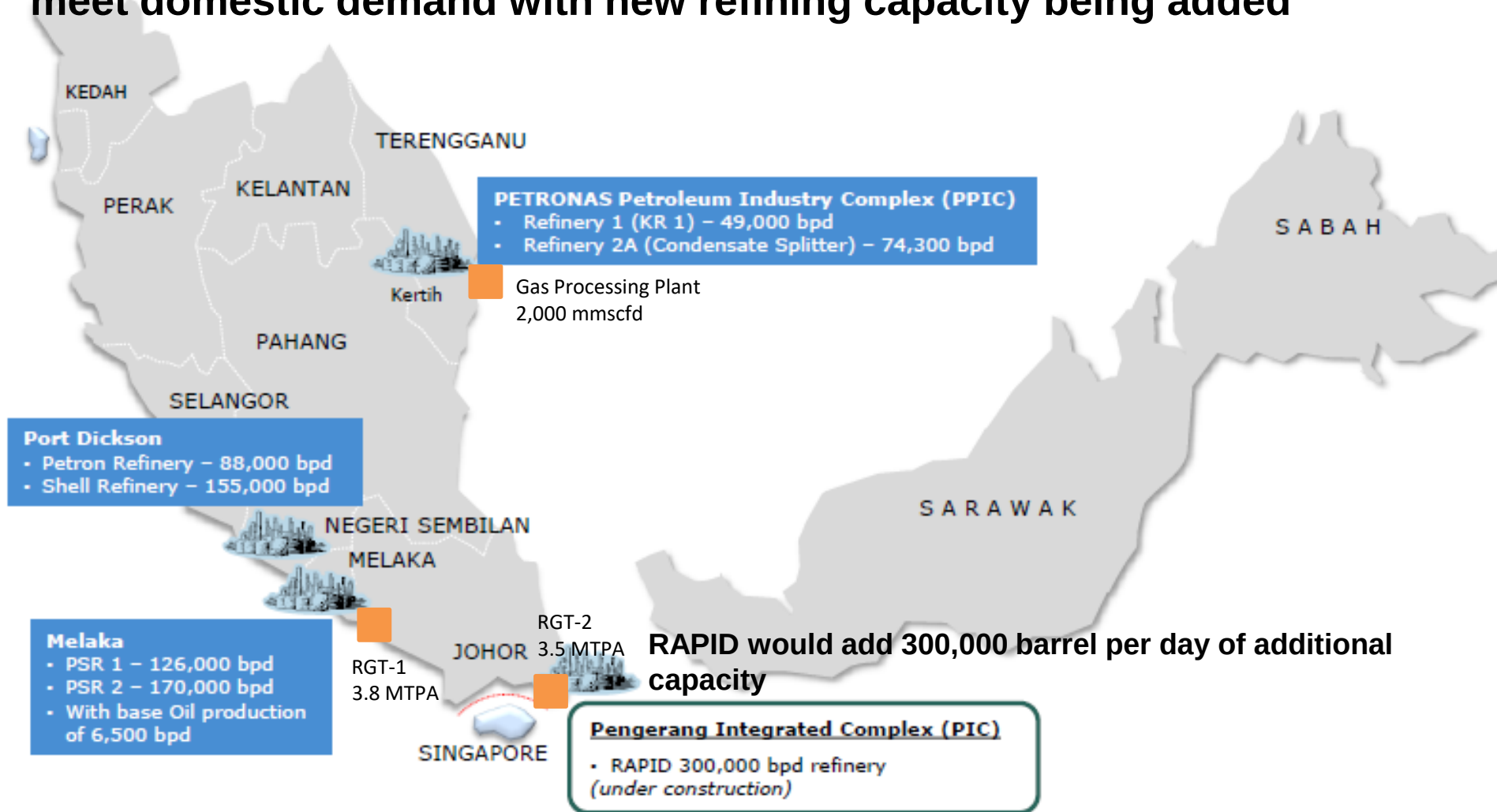
- **Oil Supply Security Policy for Malaysia**

- **The National Depletion Policy** was formulated in 1980 with the aim of conserving energy resources, particularly oil. The production of oil is capped below 700,000 bpd.
- Malaysia doesn't have national oil stockpiling facilities for crude oil. However, based on the Malaysia's current reserves of about 3.6 million barrels (2P), it can be utilised for another ~15 years based on current level of production.
- For petroleum products especially diesel and petrol, it is mandatory for all pump stations to reserve their products for at least 3 day's consumption.
- As one of the ASEAN member countries, Malaysia is also under the **ASEAN Petroleum Security Agreement (APSA)** arrangement.

Oil and Gas Security Policy

Malaysia

Malaysia current combined refining capacity of 650 kbpd is sufficient to meet domestic demand with new refining capacity being added



- **Gas Supply Security Policy for Malaysia**
 - Malaysia has implemented additional initiatives under its 11th Malaysia Plan which includes:
 - ✓ 10% buffer of total supply volume between 100 and 200 mmscfd from gas processing plant in Kerteh, Terengganu to cater for East Coast and Southern Peninsula demand; and
 - ✓ 15% buffer of storage capacity from Regasification Terminal 1 (RGT-1) in Malacca to cover West Coast Peninsula demand centres.

Oil and Gas Supply and Demand Situation Malaysia

- Policy Actions (Domestic and Regional) to Strengthen Oil and Gas Supply Security

At the regional level

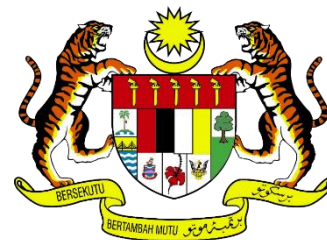
- Currently Malaysia as ASEAN members is under the APSA initiatives.
- The potential to expand the *emergency oil and gas sharing scheme in the APEC region need to be studied.*

At the domestic level

- Malaysia has already embarked on a demand side management programme for energy usage.
- In addition, Malaysia will also undertake a study to strengthen oil and gas supply security



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Thank you very much...

Email Address: zuhairi@epu.gov.my

Contact Number: +60388725869