Better Data – Better Decisions
JODI-Oil Data in Participating Countries

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Energy Analyst, IEF
Assessment approach

**Participation assessment**
Participation assessments are prepared two months after the close of the respective assessment period.

To maintain comparability we do not revise past assessments.

**Remark on timeliness**
May 2019 JODI data update (data up to March 2019) was used for this assessment.

**Remark on Completeness**
Completeness is reviewed based on the Extended JODI-Oil format.
Country: Australia
Participation status

Participation assessment

<table>
<thead>
<tr>
<th></th>
<th>January-June 2018</th>
<th>July-December 2017</th>
<th>January-June 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>☺ ☺ ☺</td>
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</tbody>
</table>

Remark on timeliness
Data is available up to March 2019

Remark on completeness
• Complete data set available
Country: Australia
Flow: Balance

Observation:

Statistical difference above 10%

Calculated refinery intake < reported
Calculated demand > reported
Country: Australia  
Data: Refinery

Observation:
Occasionally refinery yield above 100%
Country: Brunei

Participation status

Participation assessment

<table>
<thead>
<tr>
<th></th>
<th>January-June 2018</th>
<th>July-December 2017</th>
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<tbody>
<tr>
<td>Brunei</td>
<td>😊😊😊</td>
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</table>

Remark on timeliness
Data is available up to March 2019

Remark on completeness
• Complete data set available
Country: Brunei
Data: Balance / Refinery

Observation:

It seems that a refinery maintenance resulting high yield and exceptional statistical difference in June 2017.
Country: China
Participation status

Participation assessment

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<tr>
<th></th>
<th>January-June 2018</th>
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<tbody>
<tr>
<td>China</td>
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</tbody>
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Remark on timeliness
Data up to August 2018

Remark on completeness
Some Naphtha data are available.
No closing stock level data. Stock change data reporting has stopped since August 2018.
Country: China  
Flow: Stock

Observation during the Beijing workshop (2016):
Cumulative crude oil stock change to date stands at some 110,000 ktons.
To give an idea of scale, this is roughly double the volume of crude oil stocks held by Japan.

Clarification and actions:
Stock change reported by NBS is calculated as:
- stock as of the end of current month
- minus
- stock at the end of last year

From April, Stock Change will be calculated to align with the JODI definition as:
- stock as of the end of current month
- minus
- stock at the end of previous month

APEC recalculated stock change based on this information and sent the recalculated data to NBS for review and confirmation.
Observation during the Beijing workshop (2016):

Cumulative total oil products stock change to date stands at some 110,000 ktons.

By comparison, the US total oil products stock levels currently stands at 87,000 ktons.

Clarification and actions:

Stock change reported by NBS is calculated as:

- stock as of the end of current month
- minus
- stock at the end of last year

From April, Stock Change will be calculated to align with the JODI definition as:

- stock as of the end of current month
- minus
- stock at the end of previous month

APEC recalculated stock change based on this information and sent the recalculated data to NBS for review and confirmation.
Country: Hong Kong

Participation status

Participation assessment

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<tr>
<th></th>
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<tr>
<td>Hong Kong</td>
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Remark on timeliness
Data is available up to March 2019

Remark on completeness
• Some Jet kerosene data available
**Country:** Hong Kong  
**Data:** Balance

**Observation:**

Occasionally large statistical differences

Maybe trade statistics and demand data do not match.
Country: Indonesia
Participation status

Participation assessment

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<tr>
<th></th>
<th>January-June 2018</th>
<th>July-December 2017</th>
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</thead>
<tbody>
<tr>
<td>Indonesia</td>
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Remark on timeliness
Data is available up to November 2018

Remark on completeness
• Some Other (primary), Naphtha and Jet kerosene data available
**Country:** Indonesia  
**Data:** Negative production

<table>
<thead>
<tr>
<th>Naphtha Refinery output</th>
<th>Jan16</th>
<th>Feb16</th>
<th>Mar16</th>
<th>Apr16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-5.167</td>
<td>-51.06</td>
<td>-1.494</td>
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</thead>
<tbody>
<tr>
<td></td>
<td>-11.12</td>
<td>-88.48</td>
<td>-85.68</td>
<td>-90.93</td>
<td>-48.33</td>
<td>-122.6</td>
<td>-75.55</td>
<td>-81.78</td>
<td>-173.3</td>
<td>-1077</td>
<td></td>
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**Observation:**

Negative production of Naphtha and Other (Primary)
**Country:** Indonesia  
**Data:** Demand

**Observation:**

In general, missing data between Jul-Dec 2016.

The large spike of gasoline demand toward Dec 2015.
**Country: Korea**

**Participation status**

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<tr>
<td>Korea</td>
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</tr>
</tbody>
</table>

**Remark on timeliness**
Data up to March 2019

**Remark on completeness**
Complete data set available
Country: Malaysia
Participation status

Participation assessment

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<tr>
<th></th>
<th>January-June 2018</th>
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<tr>
<td>Malaysia</td>
<td>😊😊😊</td>
<td>😊😊😊</td>
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</tr>
</tbody>
</table>

Remark on timeliness
Data is available up to March 2019

Remark on completeness
- Some Naphtha data are available.
- No stock and products demand data
Country: Malaysia  
Data: Production

Observation:

NGL production data stopped as of December 2015 (data began in Sep 2008)
Country: Malaysia
Data: Refinery

Observation:
It is clear that some inputs (ie NGL) are missing.
Country: New Zealand
Participation status

Participation assessment

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<th>January-June 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Zealand</td>
<td>😞 😞 😊</td>
<td>😊 😊 😊</td>
<td>😞 😞 😊</td>
</tr>
</tbody>
</table>

Remark on timeliness
Data is available up to March 2019

Remark on completeness
• Fairly complete data set in extended format
• Supply data of Other (Primary) seem missing
Country: New Zealand
Flow: Balance

Observation:

Statistical difference occasionally above 10%

Calculated refinery intake < reported
Calculated demand > reported
**Country: Papua New Guinea**

**Participation status**

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<thead>
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<th>January-June 2017</th>
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<tr>
<td>Papua New Guinea</td>
<td>😊😊😊</td>
<td>😊😊😊</td>
<td>😊😊😊</td>
</tr>
</tbody>
</table>

**Remark on timeliness**
Data is available up to March 2019

**Remark on completeness**
- Complete Naphtha data available
Country: Papua New Guinea
Data: Refinery

Observation:
Refinery shutdown?
Country: Philippines
Participation status

Participation assessment

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<thead>
<tr>
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<th>January-June 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philippines</td>
<td>🌟🌟🌟</td>
<td>🌟🌟🌟</td>
<td>🌟🌟🌟</td>
</tr>
</tbody>
</table>

Remark on timeliness
Data is available up to January 2019

Remark on completeness
• Complete Naphtha data available
• Occasional data missing
<table>
<thead>
<tr>
<th></th>
<th>Jul15</th>
<th>Feb17</th>
<th>Apr18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>From other sources</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Imports</td>
<td>875.419</td>
<td>925.49</td>
<td>805.291</td>
</tr>
<tr>
<td>Exports</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Products transferred/Backflows</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Direct use</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Stock change</td>
<td>22.8225</td>
<td>-285.05</td>
<td>-213.01</td>
</tr>
<tr>
<td>Statistical difference</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Refinery intake</td>
<td>1014.01</td>
<td>947.483</td>
<td>1037.43</td>
</tr>
<tr>
<td>Closing stocks</td>
<td>640.001</td>
<td>641.245</td>
<td>624.647</td>
</tr>
</tbody>
</table>

Observation:

Refinery shutdown?
Country: Philippines
Data: Demand

Observation:
As a result of missing data
Country: Philippines
Flow: Balance

Observation:
Statistical difference occasionally above 10%
Country: Russia

Participation status

Participation assessment

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<td>☀ ☀ ☀ ☐ ☐</td>
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Remark on timeliness
Data is available up to March 2019

Remark on completeness
- Some NGL, Naphtha and Jet Kerosene data are available
- For kerosene, only exports data are available.
### Observation:
Granularity under 100 ktons became available as of Nov 2018.
Country: Russia
Flow: Production

Observation during Moscow Workshop (2016):

Apparent discrepancies between JODI data and data from Ministry of Energy.

About 477 KBD difference

*Russian crude oil production data in accordance with JODI-Oil definition is available only as of January 2012
**Country:** Chinese Taipei  
**Participation status**

## Participation assessment

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<tr>
<td>Chinese Taipei</td>
<td>😊😊😊😊😊😊😊😊😊😊😊</td>
<td>😊😊😊😊😊😊😊😊😊😊😊</td>
<td>😊😊😊😊😊😊😊😊😊😊😊</td>
</tr>
</tbody>
</table>

## Remark on timeliness
Data is available up to March 2019

## Remark on completeness
- Complete data set in the extended format.
Country: Chinese Taipei
Flow: Refinery

Observation:
Fluctuating refinery yield between 97 to 110%.
Due to measurement timing?
Country: United States
Participation status

Participation assessment

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<tr>
<td>United States</td>
<td>😊😊😊</td>
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<td>😊😊😊</td>
</tr>
</tbody>
</table>

Remark on timeliness
Data is available up to March 2019

Remark on completeness
- Complete data set in the extended format
- LPG data represents only outputs from refinery portion
Observation:

The latest month data is usually a subject to revision due to different product classification.

* Country note says…

Liquefied Petroleum Gases Demand and Closing Stocks - Most recent month's information include data for propane only, butane data are not included.
Country: Viet Nam

Participation status

Participation assessment
Viet Nam stopped data reporting as of September 2010

Remark on completeness
• Previously Viet Nam reported some additional data set in extended format including Jet Kerosene.
www.jodidata.org