Better Data – Better Decisions
Joint Organisations Data Initiative: JODI Update, Status of APEC Region, and Looking Ahead

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1. JODI: Success Model of International Cooperation

2. Status of APEC Region

3. Looking ahead
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1. JODI: Success Model of International Cooperation

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3. Looking ahead
Successful Model of International Cooperation
Designed by Policy Makers

Ministerial Inspiration since 2000

The 7th International Energy Forum host and the co-host statement emphasised the importance of “improving and timely accessing to energy data” for “market assessment and transparency”.
Successful Model of International Cooperation Designed by Policy Makers

Tangible outcomes

JODI-Oil World Database Public Launch November 2005

JODI-Gas World Database Public Launch May 2011
Successful Model of International Cooperation
Designed by Policy Makers

- 114 participating countries
- 98% of global oil supply
- 88% of global oil consumption
- 85 participating countries
- 90% of global gas supply
- 93% of global gas consumption
Successful Model of International Cooperation Designed by Policy Makers

Cooperation model across data chain

Hundreds of Energy Companies feed their data to...

... more than 100 national administrations which then submit their data to...

... the 7 JODI Partners who deliver their findings to...

... the International Energy Forum which consolidates their data...

... and populates the JODI WDB available at www.jodidata.org

... which is used by a global audience, including market analysts, traders, investors, and government officials
Successful Model of International Cooperation among 8 International Organisations

APEC, Eurostat, GECF, IEA, IEF, OLADE, OPEC and UNSD tirelessly work together to enhance global energy data transparency

Some of their key functions are to:

1. Participate in collection of “monthly” energy data set by JODI Questionnaires.

2. Meet data reporting frequent deadlines set.

3. Assess reliability of data received from its national data sources.

4. Assess its member countries on their participation in JODI.

5. Participate in all decision making related to JODI and attend regular JODI events/activities.
Successful Model of International Cooperation among 8 International Organisations

Coordination and consensus building
Successful Model of International Cooperation among 8 International Organisations

Established training programmes since 2004
Successful Model of International Cooperation among 8 International Organisations

Harmonizing definitions
Successful Model of International Cooperation
Beyond Policy Makers and JODI Partners

Enhanced data provider-user feedback chain

IJC13  13th International JODI Conference  Jodi.data.org

10-11 October 2017, London, UK  One Birdcage Walk, Westminster  The Institution of Mechanical Engineers

Hosted by the UK Government with the support of Joint Organisations Data Initiative (JODI) partners
Successful Model of International Cooperation
Beyond Policy Makers and JODI Partners

Enhanced data provider-user feedback chain

Energy Data Transparency Exhibition / Reception

Associated with the 13th International JODI Conference
10 October 2017, One Birdcage Walk, Westminster, London
Successful Model of International Cooperation Beyond Policy Makers and JODI Partners

Enhanced dialogues for all key stakeholders

JODI Information Seminar | 21 November 2017 | Santa Cruz de la Sirrra, Bolivia

Hosted by GECF 2017 - Bolivia with support of Joint Organisations Data Initiative (JODI) partners
Successful Model of International Cooperation
Beyond Policy Makers and JODI Partners

Enhanced dialogues for all key stakeholders

JODI Information Seminar  |  10 April 2018  |  New Delhi

In Association with IEF16 with support of Joint Organisations Data Initiative (JODI) partners
IEF with support of JODI Partners elaborated the plan based on 7 key objectives.

Objective 1: Continue to enhance the quality of JODI data

Objective 2: Improve the timeliness of data reporting mechanisms

Objective 3: Continue to strengthen capacity building efforts

Objective 4: Strengthen engagement with the JODI user/energy data analytics community

Objective 5: Raise JODI brand - awareness

Objective 6: Consider improvement of data transparency for other forms of energy

Objective 7: Identify and engage expanded JODI Champions
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3. Looking ahead
Chilean oil products demand at the highest level
Gasoline leads Chilean oil products demand
China continue to produce domestic oil at low level
Chinese crude oil imports at the highest level
Chinese oil products are increasingly altered to exports
Hong Kong oil products demand remains robust
Indonesian crude oil production below 5 year average
Indonesian crude oil production below 5 year average
Korean crude oil refinery intake has slowed in 2018
Malaysian crude production at the highest level
Malaysian oil products imports in rise…(?)

Malaysia Total oil products Imports

[Bar chart showing the trend of total oil products imports in Malaysia from 2011-01 to 2018-06.]

JodiOil

BETTER DATA BETTER DECISIONS
Malaysian oil products imports in rise…(?)

[Chart showing a line graph with data points from December 2013 to December 2017, with different years and ranges highlighted.]

JodiOil | BETTER DATA BETTER DECISIONS
Mexican crude oil production at the lowest level
Mexican crude oil exports at the highest level in contrary
Mexican crude oil refinery intake at the highest level as a result
And Mexico imports oil products at the highest level
New Zealand oil products demand at the highest level
PNG oil products demand at 5-year average
Philippines oil products demand at the highest level
Russia registered record highest y-o-y level in April
Relatively high Russian crude oil refinery intake
Chinese Taipei crude oil imports at slightly below the 5-year average
Chinese Taipei oil products demand with seasonal pattern

KB/D

Range 2013-2017
Avg 2013-2017
2017
2018

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Thai crude oil imports at the highest level
Thai oil products demand also at the highest level
Export Trends

*[Presented in monthly average and 2018 data are average up to April]*

Source: JODI
Import Trends

*Presented in monthly average

Source: JODI & IEA
Chinese demand is Growing

Chinese Natural Gas Imports

Source: JODI Monthly Data
Accurate data is source of stability and opportunity

Source: World Bank, Commodities Prices, Pink Sheets
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“IEF16 ministers supported efforts to improve energy data transparency beyond the current data collection framework by increasing visibility and accessibility of other available data such as coal on the JODI Website. Encouraging JODI partner organisations to assess the feasibility of extending the current coverage to other flows,” 16th International Energy Forum Ministerial Meeting Concluding Statement by Host Country, April 2018, India

“to assess feasibility of extending JODI coverage to LNG trade flows and others as appropriate.” Meeting of Heads of JODI Partner Organizations, April 2018, India

“We recognise the key role that natural gas currently plays for many G20 countries, and its potential to expand significantly over the coming decades, supporting transitions towards lower emission energy systems. We will endeavour to improve the functioning, transparency and competitiveness of gas markets…including Liquefied Natural Gas (LNG) and storage facilities - at a global level.” G20 Energy Ministers Communiqué, June 2018, Argentina
## Feedback from JODI Partners

<table>
<thead>
<tr>
<th>Member organisation</th>
<th>Collection of LNG Trade Data by Origin &amp; Destination</th>
<th>Monthly</th>
<th>Annually</th>
<th>All of the organisation covered</th>
<th>Opportunities for improvement</th>
<th>Other comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>APEC</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Lacks some data on origin outside the organisation</td>
<td>China, Malaysia, PNG &amp; Thailand are omitted</td>
<td>Can deliver with some patching JODI Questionnaire with extension</td>
</tr>
<tr>
<td>Eurostat</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>-</td>
<td>Technically data are available MOS questionnaire</td>
</tr>
<tr>
<td>GECF</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>-</td>
<td>we will follow up how GECF countries can organize and accommodate that request</td>
<td>“theoretically it should not be complicated” GECF governing board agreed to extend the data coverage.</td>
</tr>
<tr>
<td>IEA</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>-</td>
<td>Technically data are available MOS Questionnaire</td>
</tr>
<tr>
<td>OLADE</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Some annual data is submitted but improvements can be made in granularity of LNG imports/exports by origin/destination</td>
<td>Monthly data would require a new data request. Would likely contain exceptions</td>
</tr>
<tr>
<td>OPEC</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>-</td>
<td>-</td>
<td>Trade origins data shown regionally. Publications of collected data will require permission</td>
</tr>
<tr>
<td>UNSD</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Possibility of perusing separation between pipeline and LNG gas in Yearbook data</td>
<td>This organisation collects for JODI only Year book contains annual data only there may be difficulties in attaining detail.</td>
</tr>
</tbody>
</table>
Improving Coal Data Resource Visibility
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Looking ahead

1. Focus future JODI activities based on the Action Plan

2. Notably JODI Partners work toward extension of LNG trade data to its origin and destination

3. JODI Partners agreed to improve available coal data resource and its visibility

4. Update the Plan with the progress made to year 2020

5. Elaborate a new plan beyond 2020