

# Annual and Monthly Data Relationship the IEA, an example

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• The IEA data collection system

• Reasons for collecting monthly data

• Challenges of collecting monthly data/JODI

- Monthly (OECD/Supply): MOS (M-2), JODI (M-1), emergency
- Annual: Y-2 (World/Supply and demand)
  Y-1 (OECD/supply preliminary) & Non-OECD production estimates



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## The IEA monthly oil data system



MOS





- Emergency data collection (IEA countries)
  - QuE Standard Modules: Data requirements depend on the nature of the oil supply disruption -> flexible questionnaire designed to facilitate this

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Transparency in the oil market

Improved analysis and policies

Energy security



# Why collect monthly oil data?

- Transparency in the oil market
  - Short-term/Trend indications
  - Seasonality
  - Impact of events (planned or unplanned)
  - Data validation
- Improved analysis and policies
  - Preliminary source of information
  - Basis for comparison with annual data
- Energy security purposes
  - Recent/quick assessment of markets
  - Size of a supply disruption
  - Ad-hoc assessment
  - Monitoring of a country's ability to face a disruption



### Short term – Trend indicators





## Seasonality





## Impact of events - Scheduled maintenance





## Impact of events - Detailed visualization of the effects of unplanned events

• Example: France 2016 - Impact of strike on oil markets / oil industry



#### Source? IEA, Monthly oil data service



## Data validation - Detailed visualization of possible data issues



#### **Refinery Losses (Annual data)**

Refinery Losses (monthly data)



Preliminary source of information

LNG imports from major exporters to OECD regions in 2017 in million cubic meters



## Preliminary source of information

**OECD** Natural gas deliveries to power generation and gross deliveries in 2016 and 2017 (selected European countries)





## Basis for comparison with annual data





## Basis for comparison with annual data





## Basis for comparison with annual data



1. Number of months per year in which JODI Maxi data are present

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**Quick assessment of markets** 



## Monitoring of a country's ability to face a disruption



# Challenges in collecting monthly data



- Timeliness can be a factor
- The data collection system of a country also matters (voluntary v. mandatory)
- Confidentiality issues





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