



# Monthly Oil Statistics

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**JODI OIL TRAINING WORKSHOP**

*Energy Community Secretariat*

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# Overview

- **General framework of the European monthly energy statistics**
- **Monthly Oil Statistics at Eurostat**
- **The MOS-Oil questionnaire**
- **Complementarity MOS-JODI Oil questionnaires**
- **Final remarks**



# General framework of the monthly energy statistics

- Regulatory aspects
  - ✓ **Regulation (EC) 1099/2008** (*Energy Statistics Regulation – ESR*)
    - Annexes **C** and **D** – **Monthly** [M-2 / M-3] and respectively **Short term monthly** [M-1] energy statistics
  - ✓ Legally binding: data reporting obligation for **EU** Member States and **EEA** States
    - Applicable to EU Candidate Countries and Potential Candidates, as well as to **Energy Community** Contracting Parties
- Technical aspects
  - Dedicated questionnaires [some of which] used in collaboration with other international organizations (IEA, JODI Partner Organizations)
    - MOS (Oil and Gas) / Coal / Electricity
    - JODI / SEG (Gas and Electricity)
  - Harmonized methodology (definitions, concepts)
    - Reporting Instructions
    - Manual

# Monthly oil data reporting at Eurostat

- Two complementary data collections
  - ✓ **JODI**-Oil (formally 'short term monthly oil statistics')
    - Mainly aimed at estimating the trends (short-term indicators)
      - Focuses on the supply side
    - Deadline for transmitting the data [for countries reporting to EUROSTAT]: 25 days after the end of the reference month (M-1)
    - Use of the first version of the JODI-Oil questionnaire (42-position simplified data collection) as regards the mandatory reporting
      - Possibility to transmit the Maxi-JODI (extended 126-position questionnaire)
  - ✓ **MOS**-Oil (**M**onthly **O**il [and Gas] **S**tatistics – *Oil part*)
    - Deadline for reporting: 55 days after the end of the reference month (M-2)
    - More accurate and complete data
      - Provides a higher level of detail on the supply side and complements it with some information on the consumption side
- Eurostat is deeply involved in and supports JODI

# The MOS-Oil questionnaire

- Questionnaire used by both EUROSTAT and the IEA
  - ✓ Developed jointly by the European Commission [Directorate General for Energy & Eurostat] and the IEA [Energy Policy Division & Energy Statistics Division], with the aim to minimise the administrative reporting burden of the reporting countries
    - Latest version implemented from reference month January 2013 onwards
  - ✓ Common [reporting instructions](#)
  
- Specific issues
  - ✓ Stock reporting obligations (10 dedicated tables out of 14) related to mandatory stockholding for EU MS
    - Calculated based on monthly oil statistics (MOS Oil Questionnaire)
  - ✓ Detailed origin / destination countries for the trade
  
- Detailed checking and validation process

# The MOS-Oil questionnaire: Table 1

## MONTHLY OIL QUESTIONNAIRE

Country (select country)  
 Month of data January 2017  
 Status of data (final/provisional) Final  
 Prepared by \_\_\_\_\_  
 Date of transmission \_\_\_\_\_

ALL DATA SHOULD BE ENTERED  
 IN THOUSAND METRIC TONS  
 WITH NO DECIMAL PLACE

Table 1: SUPPLY OF CRUDE OIL, NGL, REFINERY FEEDSTOCKS, ADDITIVES AND OTHER HYDROCARBONS

*Unit: Thousand metric tons*

		Crude oil	Natural gas liquids	Refinery feedstocks	Additives / oxygenates	Of which Biofuels	Other hydrocarbons	Total (A to F, excl. E)	Probate
		A	B	C	D	E	F	G	H
+ Indigenous production	1							0	
+ Receipts from other sources	2							0	
+ Backflows <sup>1</sup>	3							0	
+ Products transferred <sup>2</sup>	4							0	
+ Imports (Balance) <sup>3</sup>	5							0	
- Exports (Balance) <sup>4</sup>	6							0	
- Direct use <sup>5</sup>	7							0	
- Stock changes <sup>6</sup>	8							0	
= Refinery intake (Calculated)	9	0	0	0	0	0	0	0	
- Statistical difference	10	0	0	0	0	0	0	0	
= Refinery intake (Observed)	11							0	
Memo Item: Refinery losses	12							0	

- 1, Total of Backflows (reference G3) should correspond to Total products of Backflows to refineries in Table 2 (reference Z19).
- 2, Total of Products transferred (reference G4) should correspond to Total products of Products transferred in Table 2 (reference Z9).
- 3, Imports (Balance) should correspond to Total imports for these products in Table 3 (references A105 to F105).
- 4, Exports (Balance) should correspond to Total exports for these products in Table 4 (references A96 to F96).
- 5, Direct use should be carried over to Primary product receipts in Table 2 (line 1).
- 6, Stock changes should correspond to Closing level minus Opening level of Stocks on national territory, Table 5 (line 2 minus line 1).

OK  
 OK  
 OK  
 OK  
 OK  
 OK

# The MOS-Oil questionnaire: Table 2 (products – extract)

MONTHLY OIL QUESTIONNAIRE

(select country)  
January 2017

Table 2: SUPPLY OF FINISHED PRODUCTS

		Gasoline			Aviation gasoline	Gasoline type jet fuel	Total kerosene			Other kerosene	Road diesel		Total gas/diesel oil	Biodiesels	Non-bio gas/diesel oil
		Total motor gasoline	Biogasoline	Non-biogasoline			Bio jet kerosene	Non-bio jet kerosene	Road diesel		Heating and other gas oil				
		G	H	I	J	K	L	M	N	O	P	Q	R	S	T
+ Primary product receipts <sup>1</sup>	1														
+ Refinery gross output	2														
+ Recycled products	3														
- Refinery fuel	4														
+ Imports (Balance) <sup>2</sup>	5														
- Exports (Balance) <sup>3</sup>	6														
- International marine bunkers	7														
+ Interproduct transfers <sup>4</sup>	8														
- Products transferred <sup>5</sup>	9														
- Stock changes <sup>6</sup>	10														
= Gross inland deliveries (Calculated)	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Statistical difference	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
= <b>Gross inland deliveries (Observed)</b>	13														
Memo Items: <sup>7</sup> Deliveries to international aviation	14														
Deliveries to main activity producer power plants	15														
Deliveries of automotive LPG	16														
Deliveries of rail and marine diesel	17														
Gross deliveries to the petrochemical industry <sup>8</sup>	18														
Backflows to refineries <sup>9</sup>	19														
Net deliveries of Total products	20														

# The MOS-Oil questionnaire: Table 5 (Stocks)

## MONTHLY OIL QUESTIONNAIRE

(select country)

January 2017

### Table 5: STOCK LEVELS

(a) All stocks on national territory (b+c+d+e+f+g+h+i) <sup>1</sup>	Opening	1
	Closing	2
(b) Stocks held for other countries under official agreement	Opening	3
	Closing <sup>2</sup>	4
(c) Stocks with known foreign destination	Opening	5
	Closing <sup>3</sup>	6
(d) Stocks held in bonded areas and not included in (b) or (c)	Opening	7
	Closing	8
(e) Stocks held by major consumers, obligated by law	Opening	9
	Closing	10
(f) Stocks held on board incoming ocean vessels in port or at mooring	Opening	11
	Closing	12
(g) Stocks held by government on national territory	Opening	13
	Closing	14
(h) Stocks held by stock holding organisation on national territory	Opening	15
	Closing	16
(i) All other stocks held on national territory	Opening	17
	Closing	18
(j) Stocks held abroad under official agreement (o+p+q) <sup>*</sup>	Opening	19
	Closing <sup>4</sup>	20
(k) Stocks held abroad designated definitely for import into your country	Opening	21
	Closing <sup>5</sup>	22
(l) Total stocks (a-b-c+j+k)	Opening	23
	Closing	24
(m) Other stocks in bonded areas	Opening	25
	Closing	26
(n) Pipeline fill	Opening	27
	Closing	28
(o) Government stocks held abroad under official agreement <sup>*</sup>	Opening	29
	Closing	30
(p) Holding organisation's stocks held abroad under official agreement <sup>*</sup>	Opening	31
	Closing	32
(q) Other stocks held abroad under official agreement <sup>*</sup>	Opening	33
	Closing	34



## Complementarity MOS-JODI Oil questionnaires

- Similar definitions and concepts (for *products* and *flows*)
  - ✓ Some differences still exist: calculation of *Stock change*, Demand vs. *Gross inland deliveries*
  - ✓ More details in the MOS, both for the products (e.g. *gasoline* split between *motor gasoline* and *aviation gasoline*) as for the flows (e.g. *international marine bunkers*)
    - Some insight into the consumption side
      - Deliveries to power plants, deliveries of LPG for automotive use
    - Includes information about the bio-fuels
  
- JODI (extended version or Maxi-JODI) can be filled in using the MOS data as input (MOS tables 1, 2 and 5)
  - ✓ Same reporting unit (*metric tons*)
  - ✓ Accuracy of JODI data can be checked by comparing with the more detailed MOS data

## Final remarks (1)

- All data sent to EUROSTAT should be transmitted via the **EDAMIS Single Entry Point**
- Monthly [M-2 / M-3] statistics are also used to calculate and publish early estimates of CO<sub>2</sub> emissions from combustion of fossil fuels
- Calculation of stockholding obligation has to be further refined for the non-EU MS
  - ✓ More information about the interpretation of the [Oil Stocks Directive](#) and its implementation for non-EU MS is currently expected from the policy side (DG Energy)
  - ✓ The work for adapting the questionnaires and taking into account the new potential reporting countries has started (Eurostat has already sent a proposal to the IEA on the topic)

## Final remarks (2)

- All Eurostat collected data is published free of charge in the dissemination database  
<http://ec.europa.eu/eurostat/web/energy/data/database>
- Within the JODI framework, the JODI WDB includes Eurostat collected data 'only' from the EU MS non-OECD members
- Methodological guidance published on Eurostat's website, in the [energy dedicated section](#)



ENERGY

Statistics illustrated  
Overview

- Data

- Main tables
- Database
- Energy balances
- SHARES (Renewables)

Energy flow diagrams

- Methodology

Annual

**MONTHLY**

Prices

Legislation

Publications

Cooperation

Links

LEGAL BASIS

Reporting countries should transmit energy data as specified in [Annexes C and D of Regulation \(EC\) No 1099/2008 on energy statistics](#). As specified these annexes, data shall be transmitted to the single entry point for data at Eurostat, which is currently implemented in eDAMIS. The appropriate data transmission format is the latest version of the joint annual energy questionnaires in the MS Excel file format (available for download in the section below).

MONTHLY QUESTIONNAIRES & REPORTING INSTRUCTIONS

This section presents the latest version of monthly energy questionnaires that should be use for official data transmissions. Reporting instructions are also available here.

- MOS - oil (version 2012)
- MOS - gas (version 2012)
- MOS - reporting instructions (version 2012)
- Monthly questionnaire oil (JODI)
- JODI description
- JODI manual
- SEG gas
- Monthly questionnaire electricity (version 2017)
- Monthly questionnaire electricity - reporting instructions (version 2017)
- SEG electricity
- Monthly questionnaire coal (version 2017)
- Monthly questionnaire coal - reporting instructions (version 2017)

ARCHIVES - FORMER VERSIONS

Below are the previous versions of monthly energy questionnaires. **These versions are outdated and should not be used for data transfers.**

[Display archived versions](#)

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# Thank you for your attention!



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