



The MOS OIL questionnaire

Stocks reporting

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EnC Workshop – Vienna 14 March 2023

OVERVIEW

- Legal bases
- Data submission and questionnaire info
- The questionnaire: Supply, trade, stocks (Tables 1 – 5)
- **The questionnaire: Emergency stocks (Tables 5b – 9 and days equivalent calculation)**
- Data validation
- Eurostat database
- **Questions, Q&A session, exercise**

Legal basis

MOS – Legal Basis

- **Table 1 to 5: Supply side + stocks + deliveries**

Regulation (EC) No 1099/2008

Production of primary products, refinery intake of primary, output of secondary products, flows to and from petrochemical industry, imports and exports, international marine bunkers use, stocks in national territory, inland deliveries.

As transposed in the EnC → Entry into force in 2014

- **Table 5b to 9 (and New days equivalent calculation sheet):
Emergency and commercial stocks**

Council Directive 2009/119/EC

Stocks in national territory, own emergency, held for others or by others, to be imported or exported, stocks by location, commercial stocks.

As transposed in the EnC → Entry into force Jan 2023

Data submission and questionnaire info

MOS – Submitting data

- Deadlines for reporting: 55 days after the end of the reporting month
- Reporting for Energy Community (EnC) contracting parties (CPs):
 - MOS ESR data: Obligation started with ref month Jan 2014* (*Georgia 2017)
 - Most CPs are currently reporting some/all data Tab 1 - 5
 - Emergency oil stocks: Obligation to start with ref month Jan 2023
 - Stock build and emergency stock data reporting
- Via eDAMIS under the dataset: ENERGY_MOSOIL_M
- Data with no errors must be transmitted by the deadline
- Revisions due to data improvements and updates are accepted
- Questionnaire: <https://ec.europa.eu/eurostat/web/energy/methodology/monthly>
- Reporting instructions: https://ec.europa.eu/eurostat/documents/Reporting_Instructions_Oil_Gas_2020.pdf

MOS - Information

- Includes the changed calculation provisions: amendment (EU) 2018/1581 to the Oil Stocks Directive
- Includes changes needed due to legal interpretation developments: EnC CPs stocks location
- **New format** -> Presentation later

The questionnaire: Table 1 – 5

Energy Statistics - Regulation (EC) No 1099/2008

Table 1 – Table 5

- Products: 19 (plus breakdowns)
- Tables:
 - Table 1: Supply of primary fuels (and others)
 - Table 2: Supply of finished products (secondary) + Other info (Selected deliveries)
 - Table 3: Imports
 - Table 4: Exports
 - Table 5: Stocks
- Units of measure: Thousand metric tons (kilo-tonnes)

Table 5 - Stocks

(a) All stocks on national territory (b+c+d+e+f+g+h+i) ¹

(b) Stocks held for other countries under official agreement

(c) Stocks with known foreign destination

(d) Stocks held in bonded areas and not included in (b) or (c)

(e) Stocks held by major consumers, obligated by law

(f) Stocks held on board incoming ocean vessels in port or at mooring

(g) Stocks held by government on national territory

(h) Stocks held by stock holding organisation on national territory

(i) All other stocks held on national territory

(j) Stocks held abroad under official agreement (o+p+q)*

(k) Stocks held abroad designated definitely for import into your country

(l) Total stocks (a-b-c+j+k)

- Opening and closing
- Some of the closing amounts are found in Table 6 to 9

(m) Other stocks in bonded areas

(n) Pipeline fill

*(o) Government stocks held abroad under official agreement**

*(p) Holding organisation's stocks held abroad under official agreement**

*(q) Other stocks held abroad under official agreement**

The questionnaire: Table 5b – 9 and calculation table.

Emergency and commercial stocks - Council Directive
2009/119/EC

Table 5b – Table 9: Emergency and commercial stocks* (*read labels as EU=EnC)

- Products: 19 (plus breakdowns)
- Tables:
 - **Table 5b: European union emergency stock levels under directive 2009/119/EC**
 - **Table 5c: European union commercial stocks held by economic operators on national territory under directive 2009/119/EC**
 - **Table 6:** Closing stocks held for other countries under official agreement, by beneficiary
 - **Table 6b:** Closing stocks held for other countries under official agreement, of which held as stock tickets, by beneficiary
 - **Table 7:** Closing stocks with known foreign destination, by beneficiary
 - **Table 8:** Closing stocks held abroad under official agreement, by location
 - **Table 8b:** Closing stocks held abroad under official agreement, of which held as stock tickets, by location
 - **Table 8c:** Emergency stocks - closing stocks held abroad, of which pursuant to government / cse delegation, by location
 - **Table 9:** Closing stocks held abroad designated definitely for import into your country, by location
 - **Table: New Days equivalent calculation**

Table 5b – European Union Emergency Stocks Levels

(EU-a) Emergency stocks (Total)	Opening
on national territory	Closing
(EU-b) Stocks held for other EU	Opening
Member States under official agreement	Closing
(EU-c) Stocks with known	Opening
foreign EU destination	Closing
(EU-g) Stocks held by government	Opening
on national territory	Closing
(EU-h) Stocks held by the Central Stockholding	Opening
Entity (CSE) on national territory	Closing
(EU-ie) Stocks held by Economic Operators	Opening
on national territory	Closing
(EU-j) Stocks held abroad in other EU	Opening
Member States under official agreement	Closing
(EU-k) Stocks held abroad in EU, designated	Opening
definitely for import into your country	Closing
(EU-l) Total Emergency Stocks held by the MS	Opening
in accordance with the EU Directive 2006/119/EC	Closing

- Directive 2009/119/EC
- Excludes non-emergency stocks
- Excludes non-EU and non-EnC
- Some differences based on definitions/requirements (c) (d) (f) (h) in Tab 5
- Opening (enter)
- Closing. If grey = calculated or linked to:
 - EU-b Table 6
 - EU-c Table 7
 - EU-j Table 8
 - EU-k Table 9

Table 5c - European Union Commercial Stocks held by economic operators on national territory

Commercial stocks held by	Opening
Economic Operators	Closing

- Directive 2009/119/EC
- Stocks held by economic operators in the national territory for their own operational and commercial needs which can be considered available to use in case of crises.
- Enter both opening and closing

Example of a closing stocks table: Table 6

		Crude oil	Natural gas liquids	Refinery feedstocks	Additives / oxygenates	Of which Biofuels	Other hydrocarbons	Total (A to G)
		A	B	C	D	E	F	G
Albania	1	0.000	0.000	0.000	0.000	0.000	0.000	
Armenia	2	0.000	0.000	0.000	0.000	0.000	0.000	
Australia	3	0.000	0.000	0.000	0.000	0.000	0.000	
Austria	4	0.000	0.000	0.000	0.000	0.000	0.000	
Belarus	5	0.000	0.000	0.000	0.000	0.000	0.000	
Belgium	6	0.000	0.000	0.000	0.000	0.000	0.000	

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Turkey	52	0.000	0.000	0.000	0
Ukraine	53	0.000	0.000	0.000	0
United Kingdom	54	0.000	0.000	0.000	0
United States	55	0.000	0.000	0.000	0
Others	56	0.000	0.000	0.000	0
Total¹	57	0.000	0.000	0.000	0
Total EnC Contracting Parties	58	0.000	0.000	0.000	0

- Report closing stocks by country
- Same for all other tables: Tab 6b – Tab 9

- Total world -> Table 5 (line b)
- Total EnC -> Table 5b (line EU - b)

Table: New Days Equivalent Calculation - Top part: Determining the obligations

LEVEL OF DAILY NET IMPORTS OR DAILY CONSUMPTION (ANNEX I AND II OF DIRECTIVE 2009/119/EC)

**Determine Obligation based on Net Imports
Annex I of the Directive**



Calculation*

**Determine Obligation based on Inland Consumption
Annex II of the Directive**



Calculation*

***based on Y-2 (Jan – Jun) or Y-1 (Jul - Dec)**

Deducing the naphtha yield:

1. 4%
2. the average naphtha yield
3. the net actual naphtha consumption

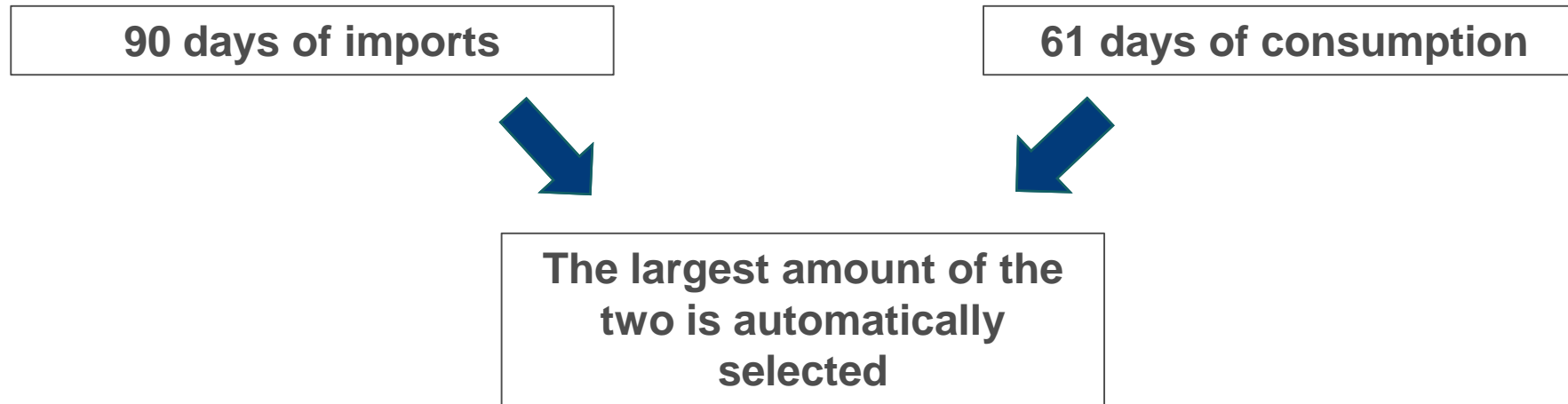


**Amount of stocks equivalent to
90 days of imports**



**Amount of stocks equivalent to
61 days of consumption**

Table: New Days Equivalent Calculation - Middle part: determining the obligations



Art 3: “whichever of the two quantities is greater”

Table: New Days Equivalent Calculation - Bottom part: Counting the stocks

Level of Emergency Stocks in Days Equivalent (Annex III of the Directive)

Crude oil stocks
+
Total products stocks
(Annex III a)



Total in kt
Number of days equivalent

90.251 *Days*

Different weights
apply to the three
elements!

Both totals are corrected
for bottom tanks

Crude oil stocks
+
Selected products stocks
(Annex III b)



Total in kt
Number of days equivalent

88.639 *Days*

Reporting country can choose (once a year):

Method Follow Annex III (a) Follow Annex III (b)

MS is compliant to directive 2009/119/EC

MS is not compliant to directive 2009/119/EC

Biofuels and additives

Article 16

When calculating the obligations: are counted if already blended.

When calculating the stock levels: are counted if blended already or if are stored on the territory, they are to be blended for emergency stocks of fuels used in transportation.

New Days Equivalent Calculation sheet and Table 5b_5c

Yearly figures in the Table 5b_5c:

Sum of monthly figures for		2020
Refinery gross output		
Refinery fuel		
Imports (Balance)		
Exports (Balance)		
Refinery intake (Calculated)		
International marine bunkers		
Gross inland deliveries (Observed)		
All stocks	Opening JAN	
on national territory	Closing DEC	
Backflows to refineries		

INPUT

Summary and results is also displayed also in the Table 5b_5c:

Method used for calculating the deduction for naphtha yield	29	The net actual naphtha consumption
Minimum stock level calculated based on:	30	Net Imports
Minimum stock level for compliance	31	8052.977
Daily Net Imports for compliance	32	89.478
Daily Inland Consumption for compliance	33	
Method used for calculating the emergency stocks	34	Annex III (a)
Emergency Stocks held by the MS in accordance with the EU Directive (in Days Equivalent)	35	90.251

OUTPUT

Eurostat database

OIL STOCKS DATABASE

Oil stocks data can be found here: <https://ec.europa.eu/eurostat/web/energy/data/database>

The screenshot shows the Eurostat website interface. At the top, there is a navigation bar with the Eurostat logo, the text "Your key to European statistics", and a search bar. Below this is a main navigation menu with tabs for "News", "Data", "Publications", "About Eurostat", and "Help". The breadcrumb trail indicates the current location: "European Commission > Eurostat > Energy > Data > Database".

The "ENERGY" section is expanded to show the "DATABASE" category. Under "DATABASE", the "Energy (nrg)" folder is expanded to show several sub-folders. The "Stocks (nrg_stk_m)" folder is highlighted with a red box, and a red arrow points to it from the right side of the page. The sub-folders under "Stocks (nrg_stk_m)" are:

- Stock levels for oil products - monthly data (nrg_stk_oilm)
- Oil stocks held for other countries - monthly data (nrg_stk_oom)
- Oil stocks held abroad - monthly data (nrg_stk_oam)
- Emergency oil stocks in days equivalent - monthly data (nrg_stk_oem)
- Stock levels for gas products - monthly data (nrg_stk_gasm)

OIL STOCKS DATABASE

Table 5b = *nrg_stk_oilm* = Stock levels

- (EU-a) Emergency stocks (Total) on national territory
- (EU-b) Stocks held for other EU Member States under official agreement
- (EU-c) Stocks with known foreign EU destination
- (EU-g) Stocks held by government on national territory
- (EU-h) Stocks held by the Central Stockholding Entity (CSE) on national territory
- (EU-ie) Stocks held by Economic Operators on national territory
- (EU-j) Stocks held abroad in other EU Member States under official agreement
- (EU-k) Stocks held abroad in EU, designated definitely for import into your country
- (EU-l) Total Emergency Stocks held by the MS in accordance with the EU Directive 2006/119/EC

Table 6 and 6b and 7 = *nrg_stk_oom* = Stocks held for other countries or with known foreign destination

Table 8 and 8b and 8c and 9 = *nrg_stk_oam* = Stocks held abroad or destined for your country

Sheet: Remarks

The remarks sheet: describe important information, clarification.
Remember to use it!

Remarks MOS OIL

Validation

MOS Data Validation

- Embedded checks, cell protection, and info.
- Automatic validation: StruVal and ConVal checks.
- Further content validation via email (soon via platform):
 - Intra questionnaire checks
 - Time series checks
- Easier validation with the upcoming new excel questionnaire format

Section on methodology: <https://ec.europa.eu/eurostat/web/energy/methodology>

Validation manual and rules: [Validation manual](#)

Questions?



Thank you

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Exercise

MOS OIL – Emergency stocks data exercise

1. Word document: Scenario and data-entry questions.
2. Excel file: MOS oil, partially prefilled with data.
 - Enter in the MOS oil the remaining data described in the questions.

Thank you

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