



Monthly oil statistics

reporting by Contracting Parties

Cristina Martello and Krzysztof Piela

E.5 (Energy)

EUROSTAT

15th Oil Forum – 10 & 11 October 2023

The MOS OIL questionnaire

MOS OIL – Legal Bases

Energy Statistics Regulation

Regulation (EC) No 1099/2008 on energy statistics + amendments in 2010, 2013, 2014, 2017, 2019 and 2022/132

ANNEX C: MONTHLY ENERGY STATISTICS Chapter 3 "OIL AND PETROLEUM PRODUCTS" listing: Applicable energy products, list of aggregates, stocks, units of measure and deadline for transmission of data

Latest consolidated version: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02008R1099-20220220>

MOS OIL – Legal Bases

Emergency Oil Stocks Directive

Council Directive 2009/119/EC of 14 September 2009, imposing an obligation on Member States to maintain minimum stocks of crude oil and/or petroleum products

+ amendment in 2018: **Commission Implementing Directive (EU) 2018/1581** which modified [Article 3: Emergency stocks — Calculating stockholding obligations](#)

Latest consolidated version:

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02009L0119-20200101>

MOS OIL – Products and flows

- Products and main flows - Regulation (EC) No 1099/2008 (Tab 1 to Tab 5)
Production of primary products, refinery intake and output of secondary products, flows to and from Petrochemical industry, imports and exports, international marine bunkers use, stocks in national territory, inland deliveries
- Emergency and commercial stocks - Council Directive 2009/119/EC (Tab 5b to Tab 9)
In national territory, own emergency, held for others or by others, to be imported or exported, stocks by location, commercial stocks
- Products: Crude oil, NGLs, feedstocks, and several petroleum products. Also blended biofuels and H2.

IMPORTANT: MOS oil data collection is fundamental for meeting the reporting obligations described in both the Energy Statistics Regulation and the Oil Stocks Directive.

MONTHLY OIL QUESTIONNAIRE			
Country			
Month of data			
Status of data (final/provisional)			
Prepared by			
Date of transmission			
Table 1: SUPPLY OF CRUDE OIL, NGL, REFINERY FEEDSTOCKS, ADDITIVES AND OTHER HYDR			
	Crude oil	Natural gas liquids	Refinery feedstocks
	A	B	C
+ Indigenous production	1		
+ Receipts from other sources	2		
+ Backflows ¹	3		
+ Products transferred ²	4		
+ Imports (Balance) ³	5		
- Exports (Balance) ⁴	6		
- Direct use ⁵	7		
- Stock changes ⁶	8		
= Refinery intake (Calculated)	9	0.000	0.000
- Statistical difference	10	0.000	0.000
= Refinery intake (Observed)	11		
Memo Item: Refinery losses	12		

MONTHLY OIL QUESTIONNAIRE
(select country)
August 2020

TABLE 5b AND TABLE 5c ARE TO BE COMPLETED ONLY BY THE EUROPEAN UNION MEMBER STATES AND ENERGY COMMUNIT

Table 5b: EUROPEAN UNION EMERGENCY STOCK LEVELS under Directive 2009/119/EC

All opening stock levels should be equal to closing stock levels of the previous month

		Crude oil	Natural gas liquids	Refinery feedstocks	Additives / oxygenates	Other hydrocarbons	Total (A to F, excl. E)	Ethane	LPG	Naphtha	Total motor gasolines	Biosgasolines	Non-biosgasolines	Aviation gasolines	Gasoline types jet fuel	Total kerosene types jet fuel	Bio jet kerosene	Non-bio jet kerosene	Other kerosene	Road diesel	Heating and other gas oil	Total gas/diesel oil	Biodiesels	Non-bio gas/diesel oil	
																									1
(EU-a) Emergency stocks (Total)	Opening	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Closing	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(EU-b) Stocks held for other EU Member States under official agreement	Opening	3																							
	Closing	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
(EU-c) Stocks with reserves	Opening	5																							
	Closing	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
(EU-d) Stocks held by governments	Opening	7																							
	Closing	8																							
(EU-e) Stocks held by the Central Stockholding Entity (CSE) in national territory	Opening	9																							
	Closing	10																							
(EU-f) Stocks held by Economic Operators in national territory	Opening	11																							
	Closing	12																							
(EU-g) Stocks held abroad in other EU Member States under official agreement	Opening	13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Closing	14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
(EU-h) Stocks held abroad in EU designated facilities for import into your country	Opening	15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Closing	16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
(EU-i) Total Emergency Stocks held by the MS in accordance with the EU Directive 2009/119/EC	Opening	17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Closing	18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Sum of monthly figures for 2019

Refinery gross output	19																								
Refinery feed	20																								
Imports (Balance)	21																								
Exports (Balance)	22																								
Refinery intake (Calculated)	23																								
International marine bunkers	24																								
Gross inland deliveries (Observed)	25																								
All stocks	26																								
Emergency Stocks held by the MS in accordance with the EU Directive (in <i>Daily Exports</i>)	27																								
Backflows to refineries	28																								

Method used for calculating the deduction for naphtha yield: 4% default value for naphtha yield. NOTE: This variable is valid from January 2020

Minimum stock level calculated based on: Inland Consumption

Minimum stock level for compliance: 0.000

Daily Net Imports for compliance: 0.000

Daily Inland Consumption for compliance: 0.000

Method used for calculating the emergency stocks: Annex III (b)

Emergency Stocks held by the MS in accordance with the EU Directive (in *Daily Exports*): 0.000

Navigation: Summary | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | **Table 5b_5c** | Table 6 | Table 6b | Table 7 | Table 8 | Table 8b | Table 8c | Table 9

Each Contracting Party should fully understand the reporting methodologies and report the data.

MOS Oil – Submitting data

- Deadlines for reporting: 55 days after the end of the reporting month
- **Reporting obligations for EnC CPs**
 - **Mos data: Obligation started with ref month Jan 2014*** (*Georgia 2017)
 - > **Some EnC currently mostly reporting some data Tab 1 - 5**
 - **Emergency oil stocks: Obligation started with ref month Jan 2023**
 - > **Stock built and reporting**

COIR - Crude Oil Imports Register

COIR - Legal Basis

Energy Statistics Regulation

Regulation (EC) No 1099/2008

+ amendments (Amendment 2146/2019, came into force on 1/1/2020)

ANNEX D: SHORT TERM MONTHLY STATISTICS

PARAGRAPH 2: CRUDE OIL IMPORTS AND SUPPLY

COIR - Submission

- Deadlines for reporting: one calendar month after the end of the reporting month.
- **Reporting obligations for EnC CPs: From Ref month January 2023**

Instructions can be found here:

https://ec.europa.eu/eurostat/documents/38154/42198/reporting_instructions_crude_oil.pdf/4463ea3c-4466-1f3e-66d4-0a35635b7644

COIR - Questionnaire

- The COIR questionnaire - to report on a monthly basis:
 - For each crude oil type imported:
 - ✓ its API gravity (average)
 - ✓ its sulphur content (average)
 - ✓ its quantity in barrels
 - ✓ its total price in USD per barrel
 - ✓ the number of companies reporting imports of this particular type
 - The total number of companies reporting imports of crude oil
 - The total imports
 - Total production volume and weight
 - The corresponding average prices

Confidentiality issues

COIR – Questionnaire – new template and content

- Questionnaire has been updated together with IEA
- New questionnaire is joined with IEA
- Big changes to crude oil origins
- New questionnaire format

The screenshot displays the 'Crude oil imports price and quantities' reporting template, specifically for 'Crude oil supply price and quantity'. The interface is titled 'REPORTING TEMPLATE IEA - Eurostat'. It includes a 'Prefilled by:' field, a 'Language:' dropdown set to 'English', and a 'Country:' dropdown set to 'Albania'. A 'Periods to load' button is located to the right of the country dropdown. The main content area is divided into several sections: 'TABLES' with a dropdown for '2023M06' and buttons for 'Table 1', 'Table 2', and 'Remarks'; 'TIME SERIES' with a dropdown for 'API Gravity' and buttons for 'TS1', 'TS2', and 'TS Remarks'; 'DATA TRANSFER' with radio buttons for 'CSV (E-VO)' and 'SDMX-CSV', and buttons for 'Import data file', 'Export data file', 'File submission preparation', 'Copy new data to prefilled data', and 'Import prefilled data file'; and 'VALIDATION' with a 'Run all checks' button.

COIR – Questionnaire – new template and content

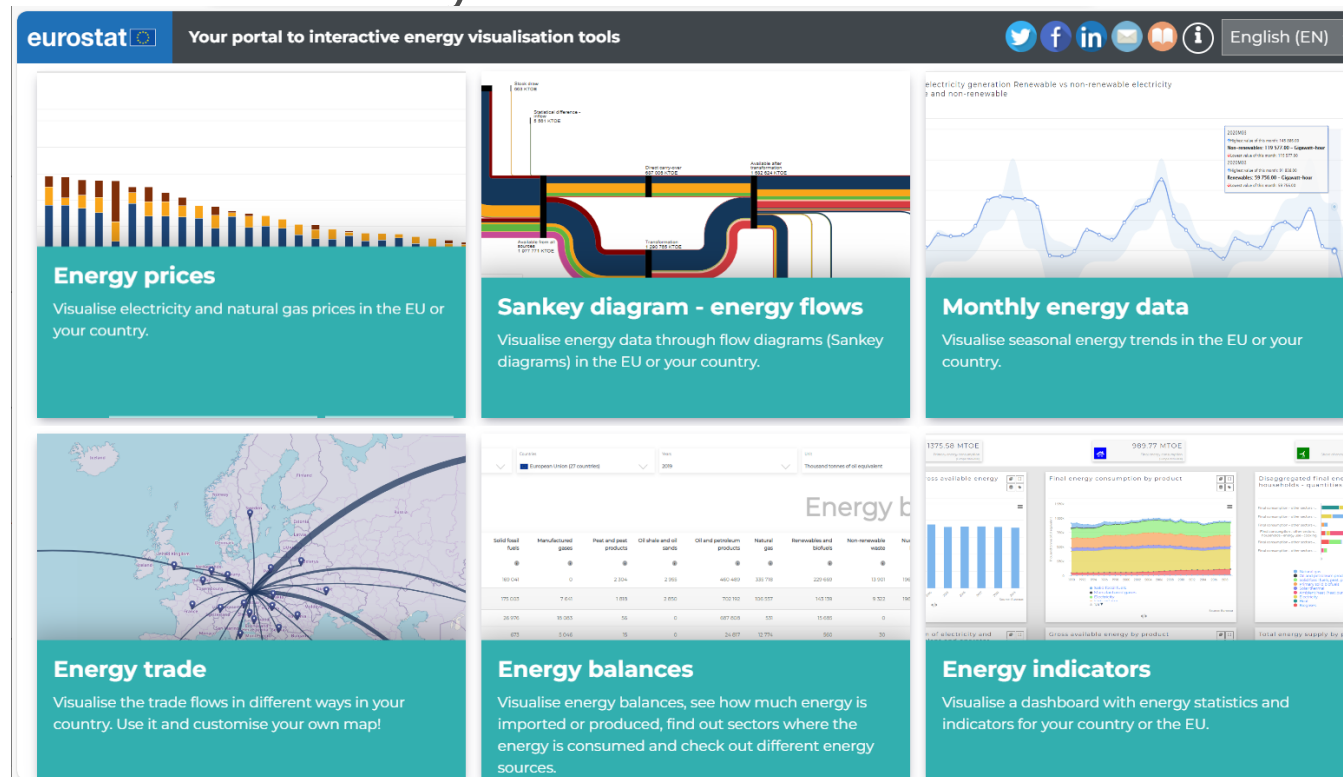
- Time series
- SDMX-csv output
- Table 2 – import is calculated from Table 1
- Easier to use flags

			Table 1: Crude oil imports price - Total volume [1000 bbls]					
			2023M01	2023M02	2023M03	2023M04	2023M05	2023M06
Albania								202
Region	Country	Crude oil type						
AFRICA	Algeria	Algerian Mix						
AFRICA	Algeria	Hassi Messaoud						
AFRICA	Algeria	Hassi Ramal						
AFRICA	Algeria	Saharan Blend						
AFRICA	Algeria	Zarzaitine						
AFRICA	Algeria	Algeria Miscellaneous						
AFRICA	Algeria	Cahara SIP						

Data use

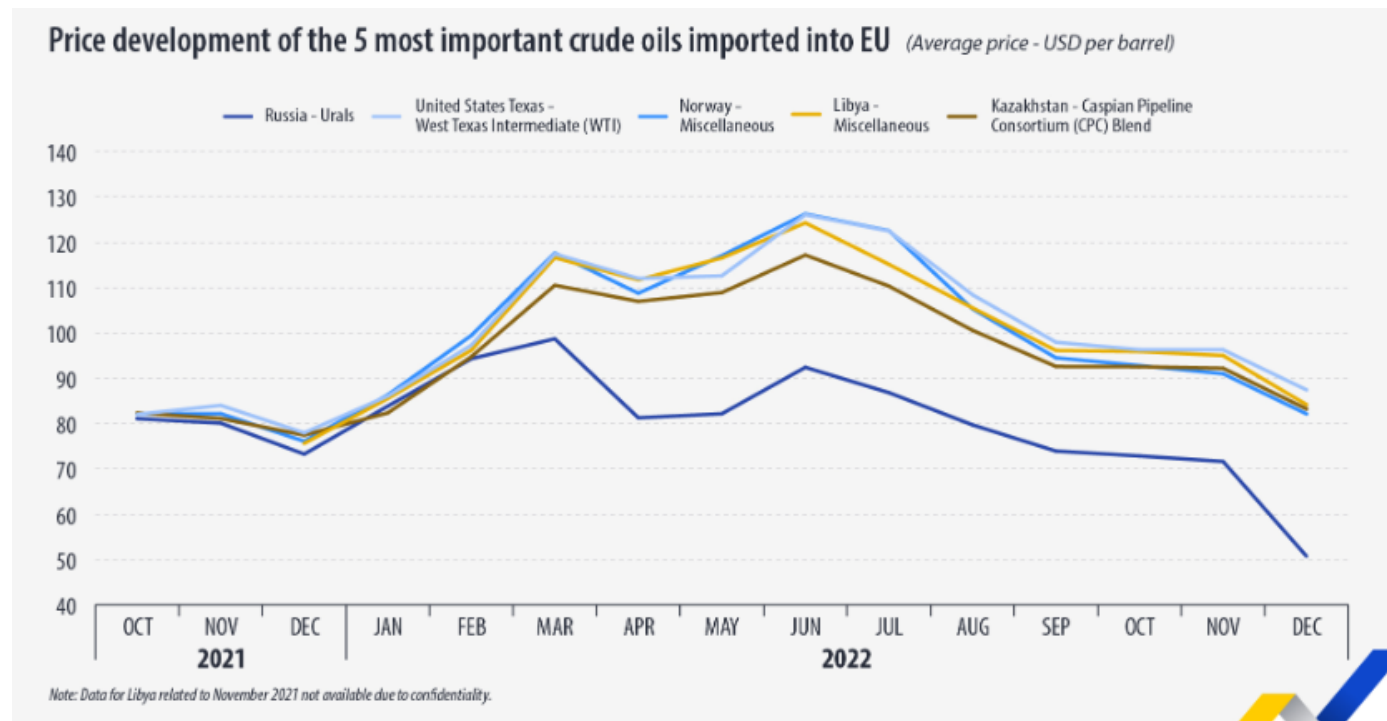
Dissemination, use and visualization

- Data are regularly published in our website.
 - The complete database is available here: <http://ec.europa.eu/eurostat/data/database>
- Visualization: Monthly data interactive visualization: [link](#)



Dissemination, use and visualization

- Eurostat articles and news items : News articles and Statistics Explained articles
- <https://ec.europa.eu/eurostat/web/energy/publications>



Thank you

ESTAT-ENERGY-MONTHLY@ec.europa.eu

ESTAT-ENERGY-ANNUAL@ec.europa.eu

ESTAT-ENERGY@ec.europa.eu