



Overview of Technical Definitions in the JODI Oil Questionnaire

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- Introduction
- Definitions
 - Products
 - Flows
- Common reporting mistakes
- Feedback from participants (interactive for each flow/product definition)



The JODI oil questionnaire

Country: _____

Month: _____

Month -2		Oil
Production		
Imports		
Exports		
Stocks	Closing Change	
Refinery Intake		

A simple format (42 data points)

Unit: _____

		Petroleum Products					
		LPG	Gasoline	Kerosene	Gas/Diesel Oil	Fuel Oil	Total Oil
Refinery Output							
Imports							
Exports							
Stocks	Closing Change						
Demand							

Choice of units left to organisations

Simple definitions

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

	Crude Oil	NGL	Other	Total (1)+(2)+(3)		Petroleum Products								Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12)
						LPG	Naphtha	Gasoline	Total Kerosene	Of which: Jet Kerosene	Gas/ Diesel Oil	Fuel Oil	Other Products	
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= Refinery Intake					= Demand									
Closing stocks					Closing stocks									

- Harmonization of definitions to the extent possible
- Umbrella definitions for partner organizations
- Manual for reference downloadable from the JODI website

<https://www.jodidata.org/capacity-building/jodi-manuals.aspx>

The extended JODI oil questionnaire



Country _____

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- Wellhead liquid hydrocarbon production excl. impurities
- Association with natural gas
- Condensates
- Conventionalality
- Fundamental quality characteristics (API & sulfur)

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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- Natural gas liquids – liquid or liquefied hydrocarbons from gas separation plants & gas processing facilities
- Condensates, natural gasolines & liquefied petroleum gases
- Ethane
- Association with natural gas
- LNG vs. NGL

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Country _____

Month _____

Unit : _____

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Definitions: Products/columns – Other primary

- All input from other commodities & refinery feedstocks
- Refinery feedstocks (hydrocarbons from refinery/petrochemical industry for further blending)
- Additives/oxygenates (oxygenates, biofuels,...)
- Other hydrocarbons (gas-to-liquids, coal to liquids, hydrogen,...)

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Country _____

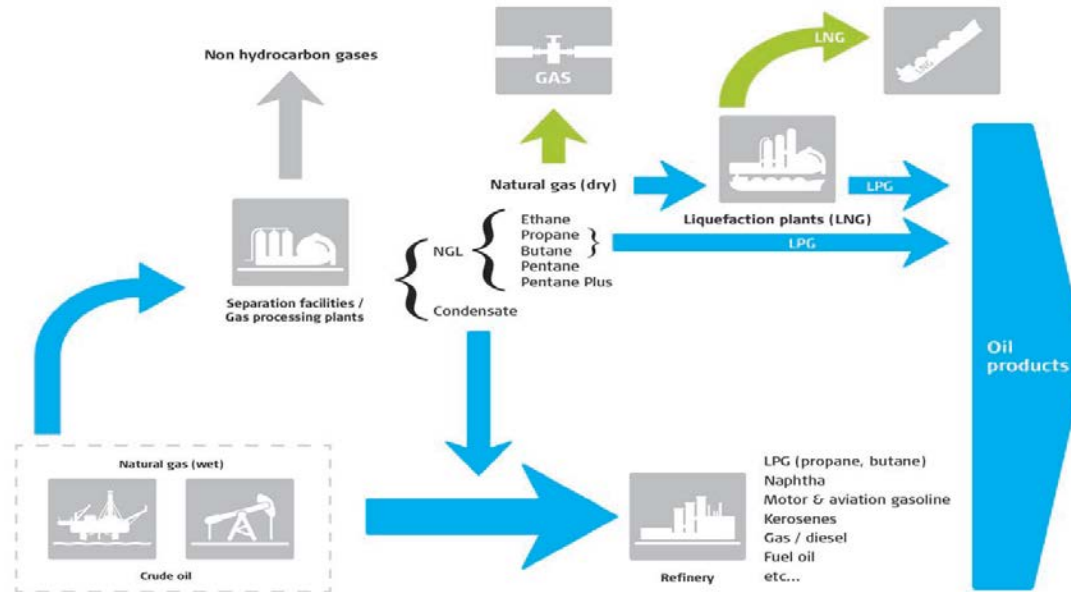
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Closing stocks					Closing stocks									

Definitions: Products/columns – LPG

- Propane (C_3H_8), butane (C_4H_{10}) or a mixture of these two hydrocarbons
- Gas plant volumes



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Country _____

Month _____

Unit : _____

	Crude Oil	NGL	Other	Total (1)+(2)+(3)		LPG	Naphtha	Petroleum Products						Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12)
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- Feedstock in the gasoline pool and the chemical/petrochemical industries
- Paraffins, isoparafins, olefins, naphthenes & aromatics
- Gas plant volumes
- Double-counting

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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Closing stocks					Closing stocks									



- Motor & aviation gasoline
- Blending components
- Biofuels – only in relation to petroleum products
- Ethanol & methanol

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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Definitions: Products/columns – Kerosenes



- Jet fuel & other kerosene
- Bio jet/kerosene
- International aviation bunkers

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Country _____

Month _____

Unit : _____

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Closing stocks					Closing stocks									

Definitions: Products/columns – Gas diesel oil

- Automotive & heating purposes
- Biodiesel
- International marine bunkers

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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Closing stocks					Closing stocks									



Definitions: Products/columns – Residual fuel oil

- Heavy residual oil/boiler oil
- International marine bunkers

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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- Refinery gas
- Ethane
- Gasoline type Jet fuel
- Petroleum coke
- Lubricants
- White spirit & SBP
- Bitumen
- Paraffin waxes
- Other: chemicals and organic chemicals (propylene, benzene, toluene, xylene)
- Demand includes direct use of crude & NGLs

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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The extended JODI oil questionnaire



Country _____

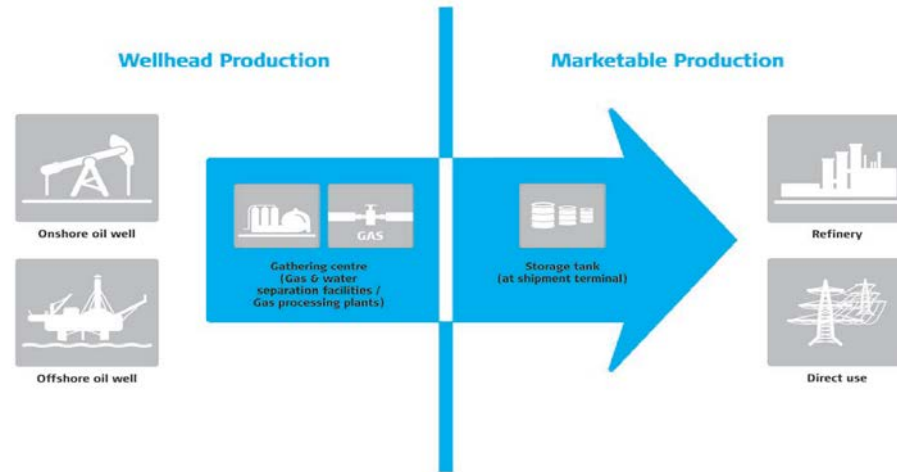
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Closing stocks					Closing stocks									

Definitions: Flows/rows – Production

- Marketable production after removal of impurities
- Crude oil, NGL & other (additives, from other commodities)



The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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Closing stocks					Closing stocks									

Definitions: Flows/rows – From other sources

- Input of additives, biofuels & other hydrocarbons that are produced from non-oil sources
- Liquid biofuels

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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- National boundaries
- Transit
- International bunkers
- Crude oil & NGL (country of origin)
- Feedstocks & finished products (country of last consignment)

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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Definitions: Flows/rows – Product transferred & backflows from petrochemical industry



- Finished & semi-finished products as input to refineries (processing, blending or sale)
- Naphtha
- Ethane
- Propane
- Gas oil
- Re-classification for processing in refinery (products)

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Country _____

Month _____

Unit : _____

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- Crude & NGL used directly without being processed
- Electricity generation
- Petrochemical industry
- Receipts

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

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- Primary stocks
- National territory
- Commercial & government holding
- Stock build vs/ draw

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Country _____

Month _____

Unit : _____

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Definitions: Flows/rows – Refinery intake



- Observed refinery throughput
- Crude, NGL, feedstocks, additives, biofuels entering the refinery

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Definitions: Flows/rows – Statistical difference

- Difference between observed supply flows & calculated refinery intake
- Primary supply

Stat. difference = Production + From other sources + imports – exports + product transferred/backflows – direct use – stock change – refinery intake

The extended JODI oil questionnaire



Country _____

Month _____

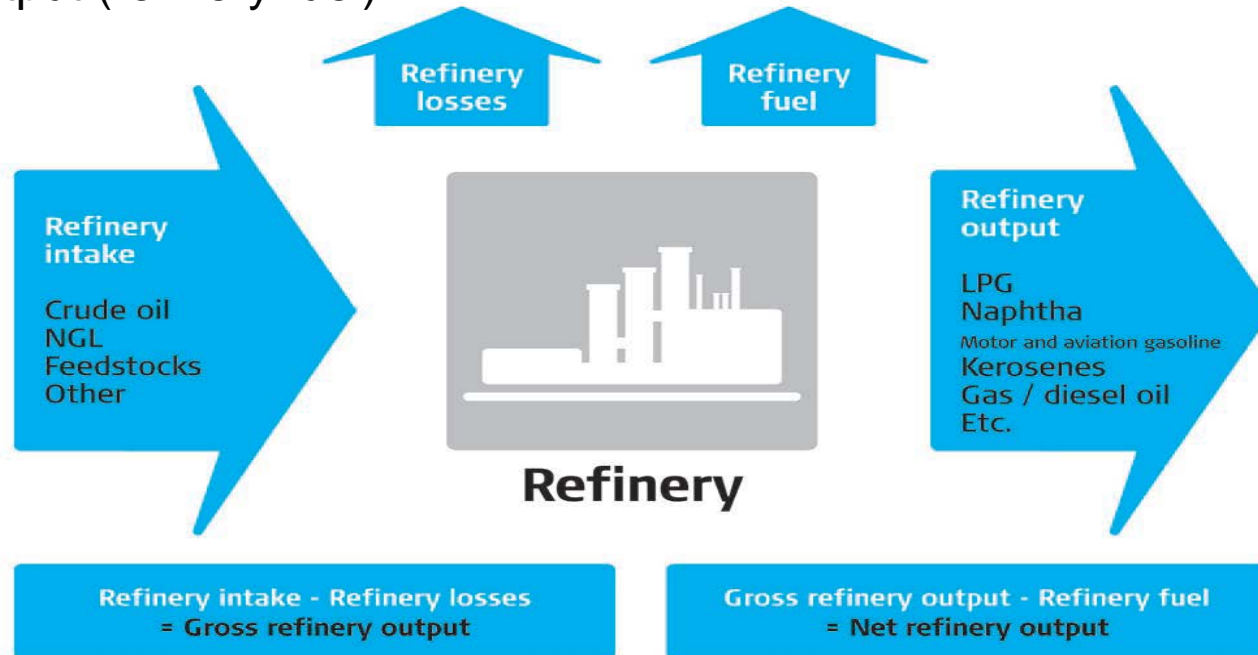
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	Crude Oil	NGL	Other	Total (1)+(2)+(3)		Petroleum Products							Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12) (13)	
						LPG	Naphtha	Gasoline	Total Kerosene	<i>Of which: Jet Kerosene</i>	Gas/ Diesel Oil	Fuel Oil		Other Products
	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
+ Production					+ Refinery Output									
+ From Other sources					+ Receipts									
+ Imports					+ Imports									
- Exports					- Exports									
+ Products Transferred /Backflows					- Products Transferred									
- Direct Use					+ Interproduct Transfers									
- Stock Change					- Stock Change									
- Statistical Difference	0	0	0	0	- Statistical Difference	0	0	0	0	0	0	0	0	0
= Refinery Intake					= Demand									
Closing stocks					Closing stocks									



Definitions: Flows/rows – Refinery output

- Gross output (refinery fuel)



The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

	Crude Oil	NGL	Other	Total (1)+(2)+(3)		Petroleum Products							Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12) (13)	
						LPG	Naphtha	Gasoline	Total Kerosene	Of which: Jet Kerosene	Gas/ Diesel Oil	Fuel Oil		Other Products
	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
+ Production					+ Refinery Output									
+ From Other sources					+ Receipts									
+ Imports					+ Imports									
- Exports					- Exports									
+ Products Transferred /Backflows					- Products Transferred									
- Direct Use					+ Interproduct Transfers									
- Stock Change					- Stock Change									
- Statistical Difference	0	0	0	0	- Statistical Difference	0	0	0	0	0	0	0	0	0
= Refinery Intake					= Demand									
Closing stocks					Closing stocks									



Definitions: Flows/rows – Receipts

- Primary product receipts & recycled products
 - Crude
 - NGL
- Returned of delivered products to supply without reclassification as another product

	NGL			LPG	Other oil products
Production	100		Refinery output	10	
Imports	25		Receipts		→ 50
Direct use	50		Exports	5	↓ -50
Stock Change	6		Interproduct transfers	50 ←	
Statistical Difference	4		Stock Change	2	
Refinery Intake	65		Statistical Difference	-2	0
Closing Stocks			Demand	55	

The extended JODI oil questionnaire



Country _____

Month _____

Unit : _____

	Crude Oil	NGL	Other	Total (1)+(2)+(3)		Petroleum Products							Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12) (13)	
						LPG	Naphtha	Gasoline	Total Kerosene	<i>Of which: Jet Kerosene</i>	Gas/ Diesel Oil	Fuel Oil		Other Products
	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
+ Production					+ Refinery Output									
+ From Other sources					+ Receipts									
+ Imports					+ Imports									
- Exports					- Exports									
+ Products Transferred /Backflows					- Products Transferred									
- Direct Use					+ Interproduct Transfers									
- Stock Change					- Stock Change									
- Statistical Difference	0	0	0	0	- Statistical Difference	0	0	0	0	0	0	0	0	0
= Refinery Intake					= Demand									
Closing stocks					Closing stocks									

Definitions: Flows/rows – Product transfers & interproduct transfers



- Product transfers
 - Reclassification of finished products as feedstock to refineries
 - Naphtha for upgrading
- Interproduct transfers
 - Reclassification as another product because of spec or blending
 - Positive sign (reclassified product), negative sign product to be reclassified

The extended JODI oil questionnaire



Country _____

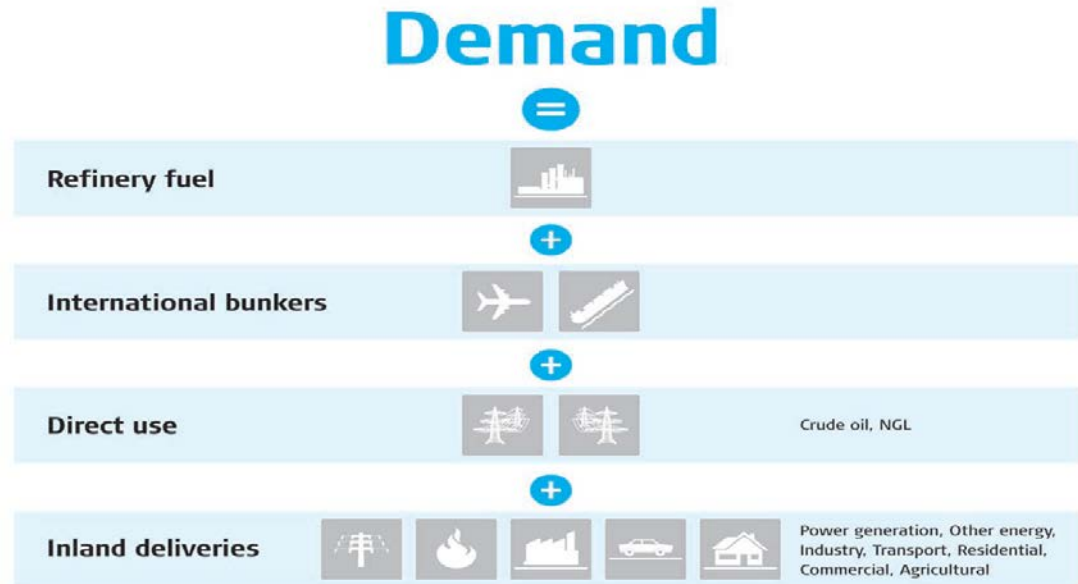
Month _____

Unit : _____

	Crude Oil	NGL	Other	Total (1)+(2)+(3)		Petroleum Products							Total Products (5)+(6)+(7) +(8)+(10) +(11)+(12) (13)	
						LPG	Naphtha	Gasoline	Total Kerosene	Of which: Jet Kerosene	Gas/ Diesel Oil	Fuel Oil		Other Products
	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
+ Production					+ Refinery Output									
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- Stock Change					- Stock Change									
- Statistical Difference	0	0	0	0	- Statistical Difference	0	0	0	0	0	0	0	0	0
= Refinery Intake					= Demand									
Closing stocks					Closing stocks									

Definitions: Flows/rows – demand

- Deliveries to inland market
- Refinery fuel
- International bunkers
- Direct use



Definitions: Flows/rows – Statistical difference

- Difference between observed supply flows & calculated demand
- Secondary supply

Stat. difference = Refinery output + receipts + imports – exports -
product transferred + interproduct transfers – stock
change – demand



- Large statistical difference
- Negative volumes; for which flows is it possible?
- Sum of interproduct transfers not 0
- Production (foreign companies)
- Refinery output (double-counting of semi-finished products)
- Demand (bunkers, direct use, refinery fuel, gas separation plant products)
- Kerosenes versus jet fuel



Thank You.

