



### **JODI-Gas Data Quality Assessment**

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Joint Organisations Data Initiative (JODI) 15<sup>th</sup> Regional Training Workshop



















# What is GECF - GECF Member and Observer Countries





### **Background: GECF Vision & Mission**

### Supporting the rights and interests of the Member countries on gas resources

# Vision

- To become an authentic platform for Gas activities
- A Credible reference in gas studies and debate
- A center for exchange of data and information on gas
- A center for policy debate on gas and energy
- A center for exchange of experience on Gas

# Mission

To promote the use of Gas as a clean fuel and contribute to the clean environment and sustainable development;

To increase the market share of Gas in the global energy mix;

To contribute to the stability of the global gas market;

To exchange data, information and experience among member countries;

To develop Dialogue with all stakeholders, including other producers and consumers.



# **Quality Indicators: Sustainability of Submission**

GECF DEM: Monthly Questionnaire (MQs) Sustainability*														
Year	Algeria	Bolivia	Egypt	Eq. Guinea	Iran	Libya	Nigeria	Oman	Qatar	Russia	Trinidad and Tobago	United Arab Emirates	Venezuela	Grand Total
2011	0	12	12	0	7	0	0	12	0	0	12	0	12	67
2012	0	12	12	6	12	12	0	12	0	0	12	0	12	90
2013	0	12	12	12	12	12	0	12	11	0	12	0	12	107
2014	12	12	12	6	12	12	0	12	12	0	12	0	12	114
2015	12	12	12	12	12	12	12	5	4	0	12	12	12	129
2016	12	12	12	0	6	3	12	0	5	0	12	12	5	91
2017	2	1	1	0	0	0	1	0	2	0	1	1	0	9
Grand Total	38	73	73	36	61	51	25	53	34	0	73	25	65	607

Yellow

<= 25% of the expected questionnaires

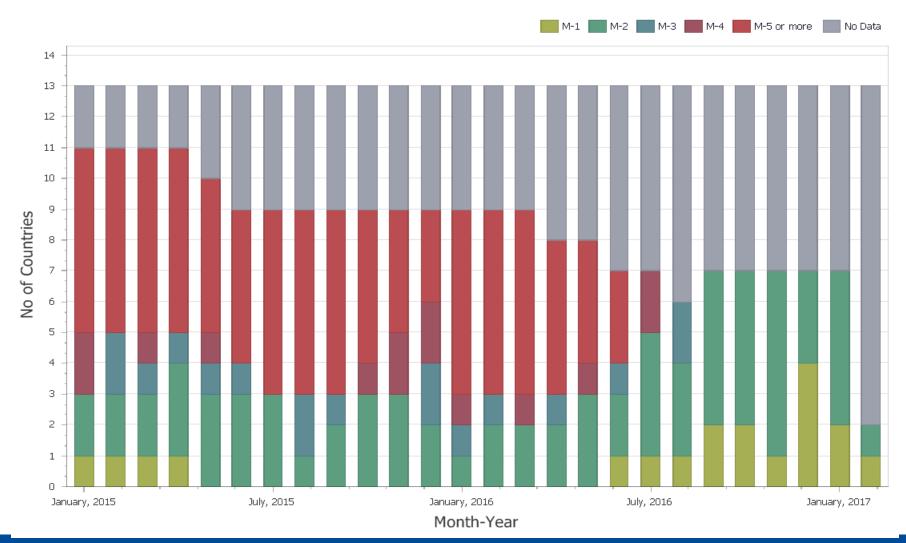
>25% & < 75 % of the expected questionnaires

Green > 75% of the expected questionnaires

\*Sustainability: refers to the continuity of submitting monthly gas questionnaire data to GECF, regardless of the timeliness of submission or completeness of data.

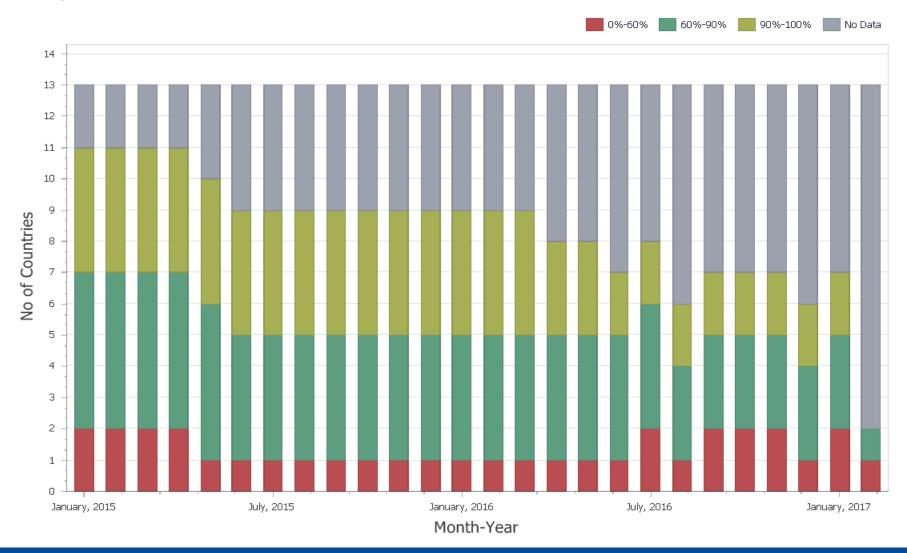
Suitability is measured as number of monthly questionnaires received from a country per year.

### **Timeliness**



# **Quality Indicators : Completeness (GECF Questionnaire)**

### Completeness (GECF)





# **Quality Indicators: Timeliness and Completeness**

₽ Tx 5 ≡
Country
Algeria
Bolivia
Egypt
Iran
Libya
Nigeria
Qatar

₽ Tx	<b>≒ ■</b>
Year	
2017	
2016	
2015	

Data Quality Assessment						
Country	Questionnaire	TimeLiness (Days)	Completeness (%)			
Egypt	2017 January	-2 ▼	92 🛦			
Egypt	2016 December	-2 ▼	92 🛦			
Egypt	2016 November	-2 ▼	92 🛦			
Egypt	2016 October	-3 ▼	92 🛦			
Egypt	2016 September	-2 ▼	92 🔺			
Egypt	2016 August	-1 ▼	92 🛦			
Egypt	2016 July	-4 ▼	92 🔺			
Egypt	2016 June	-1 ▼	92 🛦			
Egypt	2016 May	3 🛦	92 🛦			
Egypt	2016 April	-2 ▼	92 🛦			
Egypt	2016 March	-9 ▼	92 🛦			
Egypt	2016 February	-3 ▼	92 🔺			
Egypt	2016 January	-1 ▼	92 🔺			



# Participation Assessment \_ Smiley Face Approach – July to Dec 2015

### From July to Dec 2016

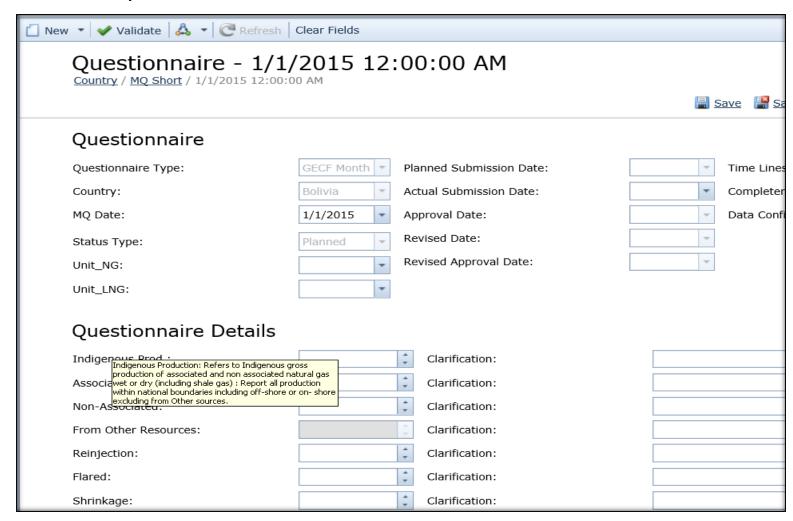
[for JoDI-Gas Monthly Questionnaire Format & M-2]

Country	Sustainability	Timeliness	Completeness	Sustainability	Timeliness	Completeness
			(%)			(%)
Algeria	6	4	77%	$\odot$	<u>e</u>	<b>:</b>
Bolivia	6	6	77%	<u>©</u>		<b>(1)</b>
Egypt	6	6	77%	<u>©</u>	<u>©</u>	<u> </u>
Eq. Guinea	0	0	0%	8	8	8
Iran	0	0	0%	8	8	8
Libya	0	0	0%	8	8	8
Nigeria	6	3	70%	<u>©</u>	8	<b>(1)</b>
Oman	0	0	0%	8	8	8
Qatar	3	3	45%	8	8	8
Russia	0	0	0%	8	8	8
Trinidad and Tobago	6	6	77%	<u>©</u>	$\odot$	<b>(2)</b>
United Arab Emirates	6	6	20%	<u>©</u>	$\odot$	8
Venezuela	0	0	0%	8	8	8



### **GECF Monthly Questionnaire in DEC**

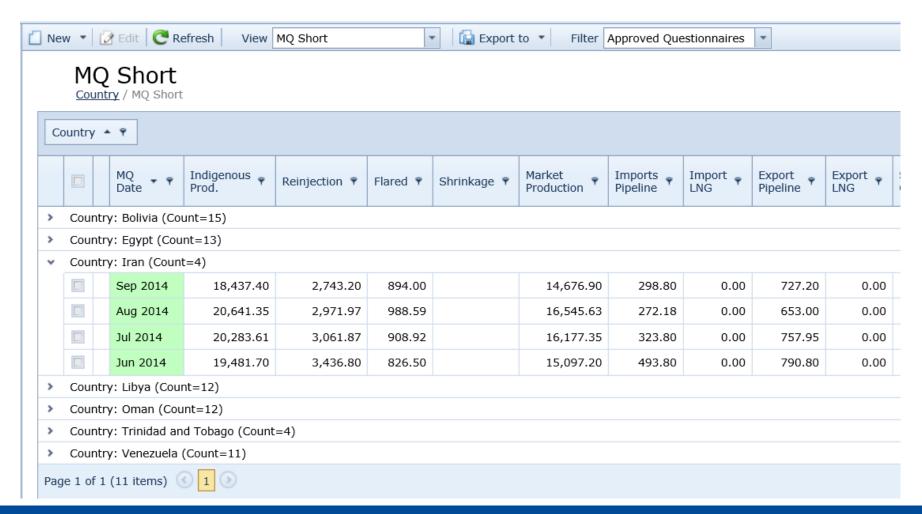
Unified GECF monthly questionnaire and related products and flows definitions are in place.





### **DEC**: Data Accessibility / Transparency

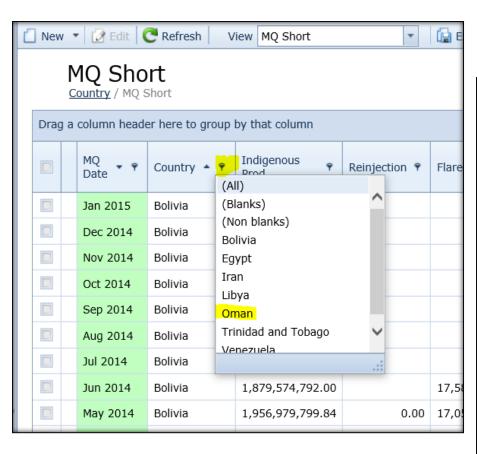
A Focal Point can browse, group, search, filter, sort monthly questionnaire data of all GECF countries.



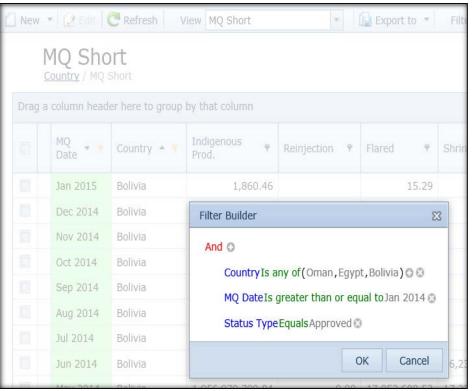


### **DEC data Accessibility: Simple and Advanced Filter**

### Filter by one or more columns



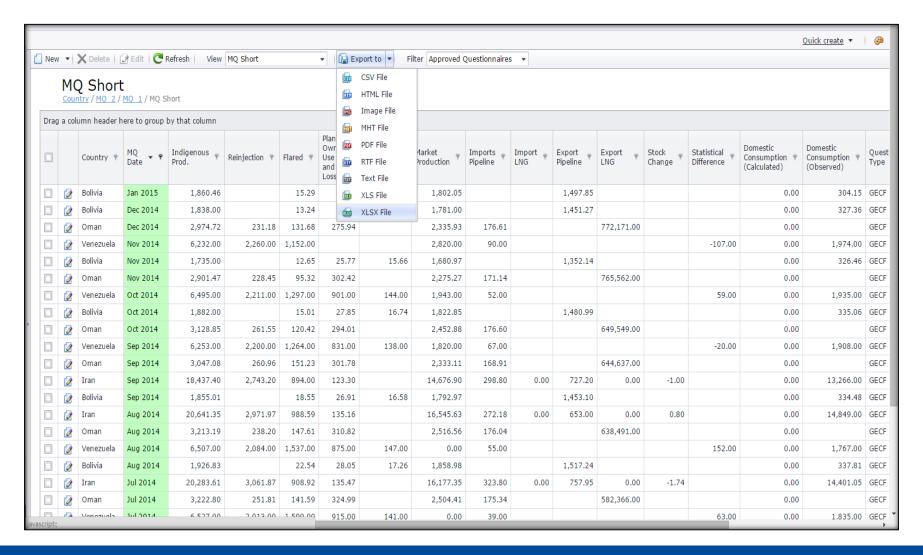
# Build a complex query with several conditions





### **DEC data availability: Data Export**

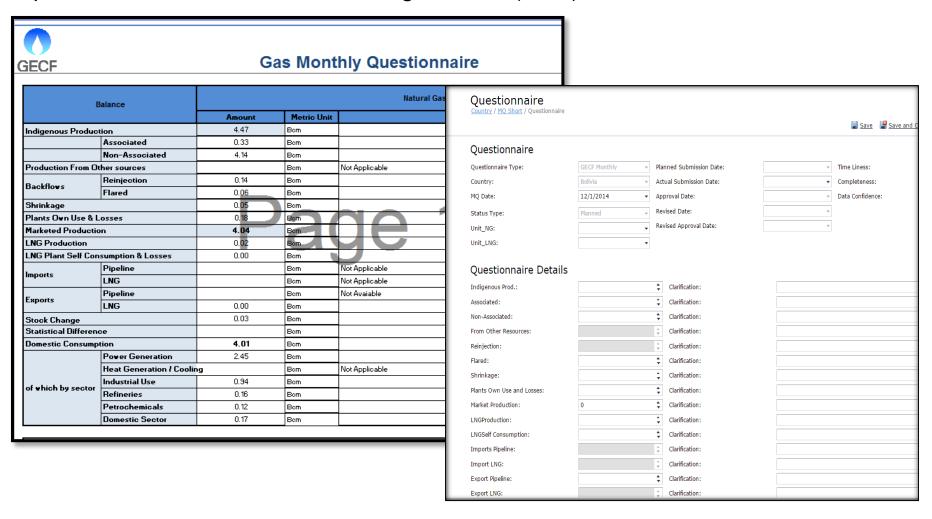
**Export** data into different file formats including **Excel**.





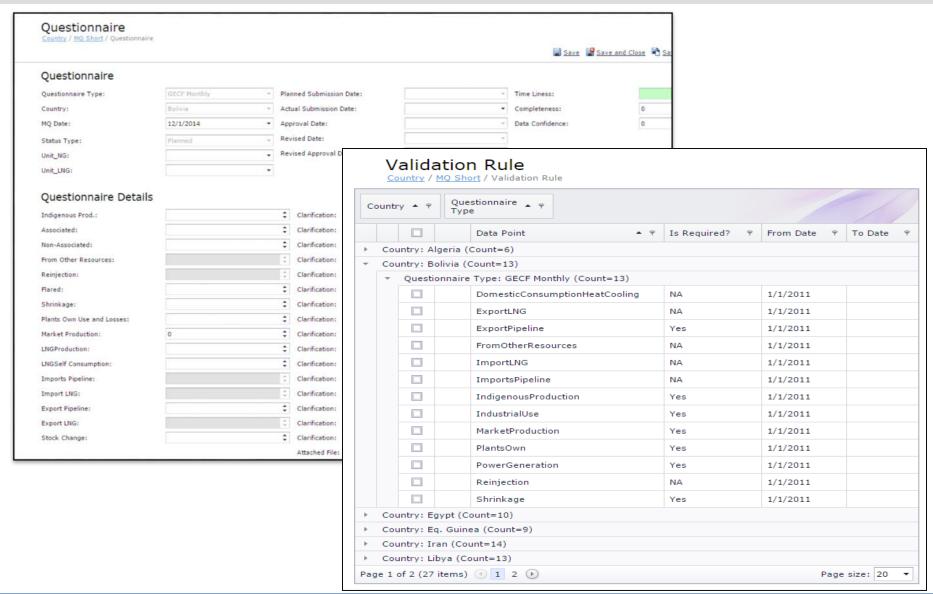
### **Monthly Questionnaire: Excel and DEC**

MC Focal Point can fill the monthly questionnaire template in Excel file or directly update the web-based Data Exchange Center (DEC).



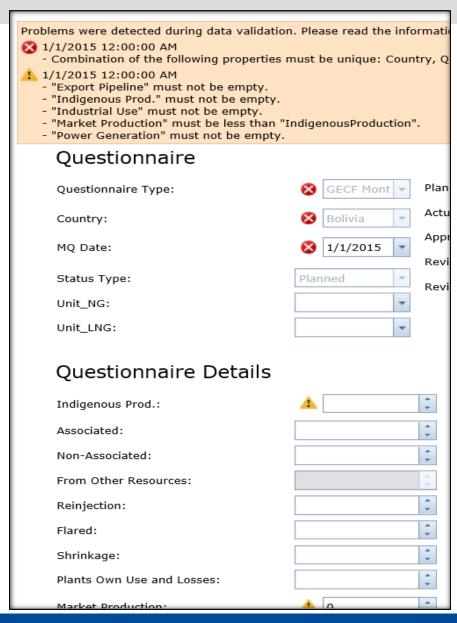


### **DEC Data Quality: Country Specific Data Entry Validation Rules**



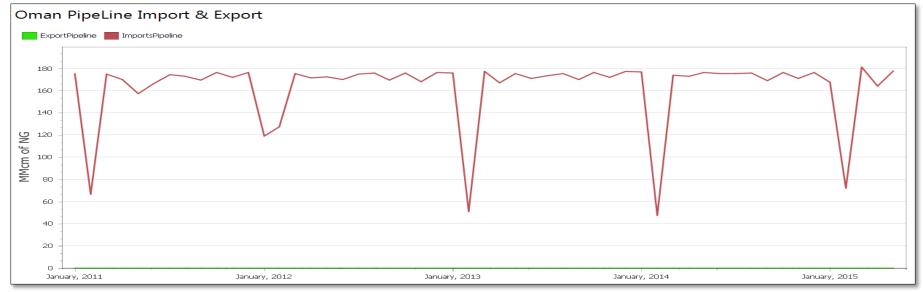


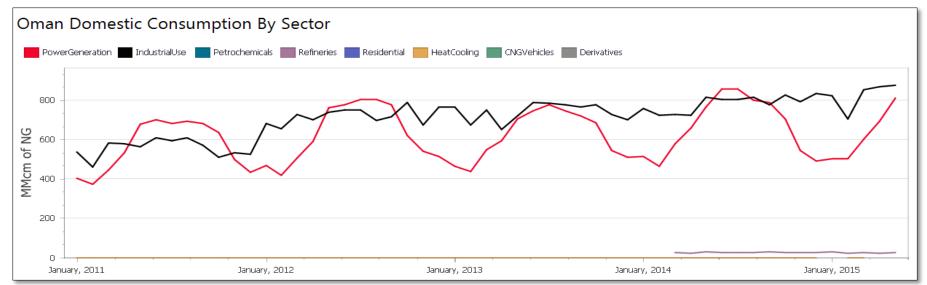
### **DEC Data Quality: Country Specific Data Entry Validation Rules**





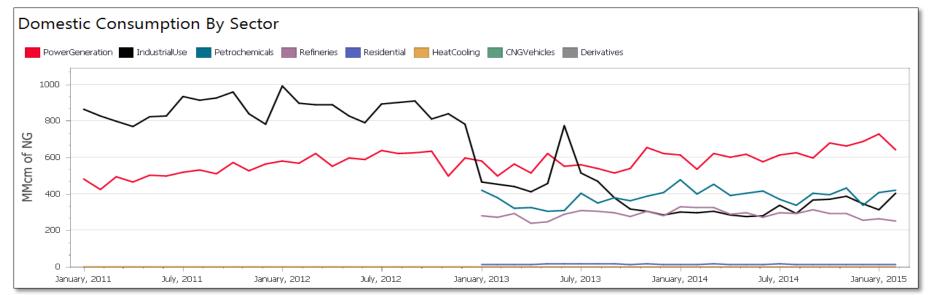
# **Data Quality Visual Check: Time-Series**

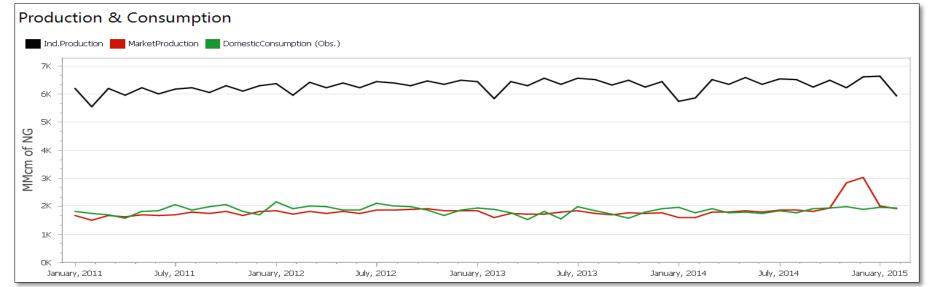






# Data Quality Visual Check: Time-Series 2: Definitions

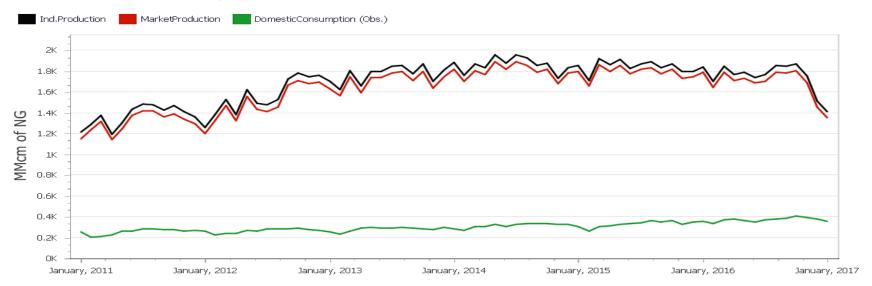




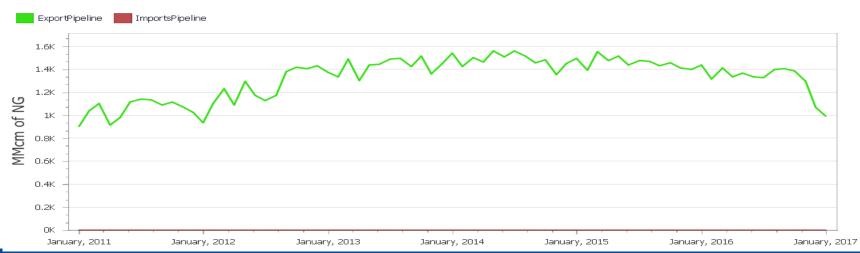


# **Data Quality Visual Check:**

### **Production & Consumption**

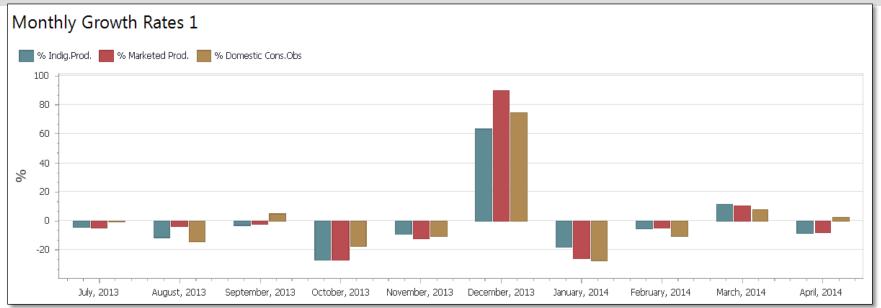


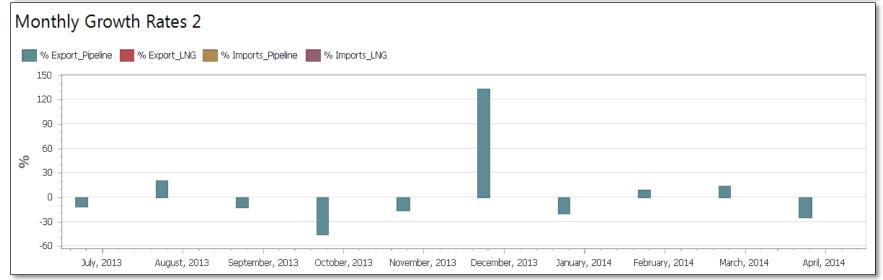
#### PipeLine Import & Export





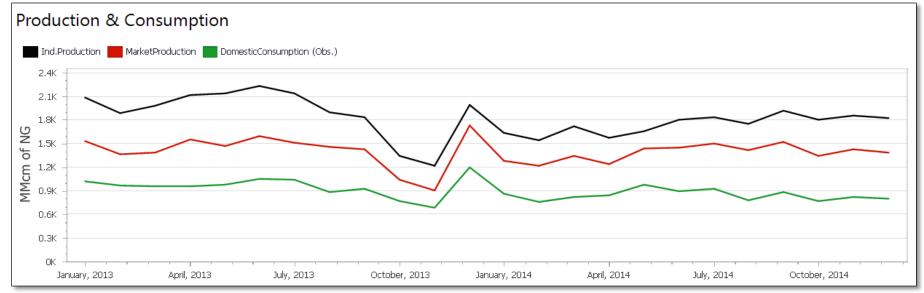
# **Data Quality Visual Check: Monthly Growth Rate**

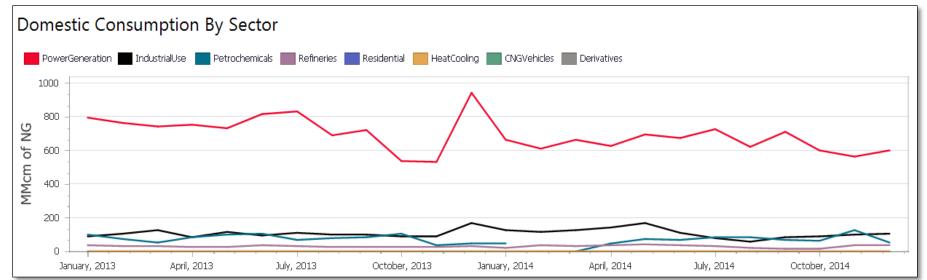






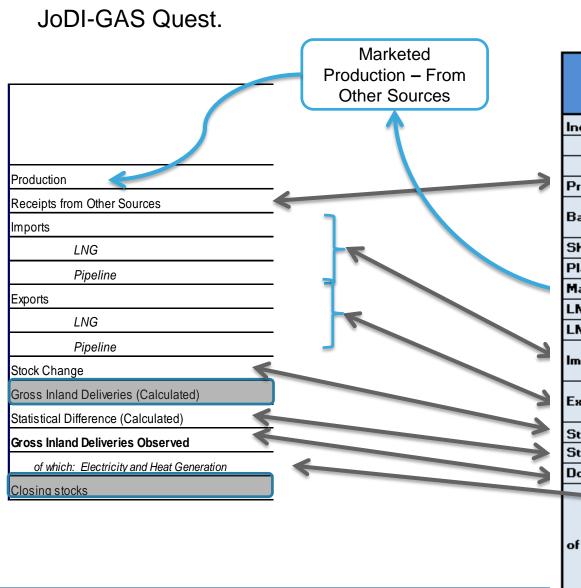
# **Data Quality Visual Check: Monthly Growth Rate**







# **Mapping GECF to JoDI-Gas**



### **GECF** Quest.

Balance						
Indigenous Production						
	Associated					
Non-Associated						
Production From Other sources						
Backflows	Reinjection					
Dackriows	Flared					
Shrinkage						
Plants Own Use & Losses						
Marketed Production						
LNG Production						
LNG Plant Self Con	sumption & Losses	Г				
	Pipeline	Г				
Imports	LNG	Г				
-	Pipeline	Г				
Exports	LNG	Г				
Stock Change						
Statistical Difference						
Domestic Consumption						
	Power Generation	Г				
	Heat Generation / Cooling					
	Industrial Use	Γ				
of which by sector	Refineries	Г				
	Petrochemicals	Г				
	Domestic Sector					

GECF Secretariat: 47th, 48th Floor, Tornado Tower, West Bay, Doha, Qatar, Website: www.gecf.org

# Thank You for Your attention

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