



**GECF**

Gas Exporting  
Countries Forum

**GECF  
Annual  
Statistical  
Bulletin**

**2023**

7<sup>th</sup> edition





# GECF Annual Statistical Bulletin

2023  
7<sup>th</sup> edition

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# Disclaimer

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The GECF Annual Statistical Bulletin (ASB) 2023 is the result of the data gathering collection and processing obtained directly from GECF Member and Observer Countries through the GECF Data Exchange Mechanism and in part using processed data from secondary sources examined and analysed by GECF Secretariat.

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I am honoured to present the seventh edition of the GECF Annual Statistical Bulletin (ASB), which provides valuable insights into developments in the energy sector in 2022. The ASB represents a compendium of meticulously curated primary official data and statistics from our member countries Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago, United Arab Emirates and Venezuela, with selected indicators from our observer countries Angola, Azerbaijan, Iraq, Malaysia, Mozambique, Norway, and Peru also featured within.

The year 2022 marked the energy crisis, characterised by huge volatility amidst geopolitical developments and underinvestment in the industry. That crisis led to deep transformations affecting natural gas production, consumption, trade, and storage, with the regional spot gas and LNG prices reaching all-time records. In this context, various countries across the world switched from gas to coal and lignite, mainly in the power generation and industrial sectors, with climate change mitigation goals undermined by energy security concerns. Policymakers had never faced such huge challenges in solving the energy trilemma of achieving security, affordability and sustainability. In the meantime, in 2022, the LNG industry has seen a continued expansion in the number of market players, with Mozambique, a GECF observer, joining the ranks of LNG exporters, and both El Salvador and Germany becoming new entrants in the group of importers.

These are some key insights from the seventh edition of the GECF ASB:

- In 2022, the GECF member countries collectively represented an impressive 70% of the world's natural gas reserves, reaffirming their central role in shaping the global energy landscape;
- GECF member countries contributed to 42% of the world's marketed natural gas production, with 30% of their production exported to satisfy global natural gas demand;

- GECF member countries continued to play a pivotal role in the global gas trade, accounting for 47% of the world's pipeline gas exports and a commanding 52% of the global LNG exports. This underscores their ongoing commitment as dynamic and reliable energy suppliers, reinforcing global energy ties;

With pipeline gas export capacity of over 450 billion cubic metres per annum, liquefaction capabilities surpassing 240 million metric tons per annum, and an LNG shipping fleet consisting of more than 150 LNG carriers, GECF member countries guarantee widespread access to the benefits of natural gas.

As the cleanest-burning hydrocarbon, natural gas will play a pivotal role in the ongoing energy transition, with gas demand rising across diverse applications, including power generation, heating, transport, petrochemicals, fertilisers, and feedstock. Moreover, natural gas is the best choice to advancing the United Nations' 17 Sustainable Development Goals (SDGs), particularly SDG #7, which aims to provide affordable, reliable, sustainable, and modern energy for all. With 675 million individuals still lacking the basic amenity of electricity and 2.3 billion individuals remaining heavily reliant on environmentally harmful cooking systems, the expanded usage of natural gas can foster social and economic development across the globe. Furthermore, growing attention to the energy sector's climate impact has driven global efforts to reduce greenhouse gas emissions, with growing investments in advanced technologies like carbon capture, utilization, and storage (CCUS), blue hydrogen and methane emissions mitigation.

The ASB 2023 was unveiled during the 25th GECF Ministerial Meeting, held on 10 October, in Malabo, Equatorial Guinea. I extend my appreciation to the special envoys for data and statistics from our member countries and the diligent GECF Secretariat team whose efforts made this publication possible.

**Eng. Mohamed Hamel**  
Secretary General

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Ms. Naima Suwani, Special Envoy of the State of Libya.

Mr. Aliyu Alhaji Dikko, Special Envoy of the Federal Republic of Nigeria.

Ms. Sarah Hamad Khames Marqab Al-Kaabi, Special Envoy of the State of Qatar.

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Ms. Nandita Maharaj, Special Envoy of the Republic of Trinidad and Tobago.

Ms. Amal Al Ali, (Ad-Hoc) Special Envoy of the Republic of United Arab Emirates.

Mr. Jose Agustin Ruiz, Special Envoy of the Bolivarian Republic of Venezuela.

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## About The Gas Exporting Countries Forum



24<sup>th</sup> GECF Ministerial Meeting | 25<sup>th</sup> October 2022  
Cairo, Egypt

The Gas Exporting Countries Forum (GECF) is an international, governmental organisation providing the framework for exchanging experiences and information among its Member Countries.

In accordance with the Statute, the GECF aims to support the sovereign rights of its Member Countries over their natural gas resources and their abilities to develop, preserve and use such resources for the benefit of their peoples, through the exchange of experience, views, information and co-ordination in gas-related matters.

Following the GECF Long Term Strategy, our Vision is “to become a globally recognized credible Forum that will develop and reflect common views and unified positions, positively influencing direction of the global gas market by promoting natural gas as the fuel of choice in the global energy mix based on its availability, reliability, versatility, affordability and its inherent nature as an environmentally-friendly source of energy”. Our Mission is “to enhance the role of GECF in the global energy scene in order to support the sovereign rights of Member Countries over their natural gas resources, to maximize their value for the benefit of their people, and to promote their coordination on global energy developments with a view to contributing to global sustainable development and energy security”.

The GECF was established in 2001 in Tehran, Iran and later evolved into an international organisation with the signing of an agreement for the functioning of the Secretariat and its Statute at the 7<sup>th</sup> Ministerial Meeting in Moscow, Russia in December 2008, with its permanent secretariat based in Doha, Qatar.

The GECF Member Countries are: Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago, United Arab Emirates and Venezuela. Angola, Azerbaijan, Iraq, Malaysia, Mozambique, Norway, and Peru have the status of Observer Members.

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## Definitions

Name	Definition	Source
<b>Domestic Consumption</b>	Volume of gas consumed domestically; excluding gas exports.	GECF.
<b>Energy Intensity Level of Primary Energy</b>	The ratio between energy supply and gross domestic product measured at purchasing power parity. Energy intensity is an indication of how much energy is used to produce one unit of economic output. Lower ratio indicates that less energy is used to produce one unit of output.	World Bank, Sustainable Energy for All (SE4ALL).
<b>Energy Use (kg of Oil Equivalent per Capita)</b>	Use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport.	World Bank, IEA Statistics © OECD/IEA 2014.
<b>Exports of Goods and Services (% of GDP)</b>	The share of Exports of goods and services in the total GDP.	World Bank and OECD National Accounts data files.
<b>Exports of Goods and Services (current US\$)</b>	The value of all goods and other market services provided to the rest of the world. Data are in current U.S. dollars. They include the value of merchandise, freight, insurance, transport, travel, royalties, license fees, and other services, such as communication, construction, financial, information, business, personal, and government services.	World Bank and OECD National Accounts data files.
<b>Flaring</b>	Volume of gas flared or vented.	GECF.
<b>GDP (Current US\$)</b>	The sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. Data are in current U.S. dollars. Dollar figures for GDP are converted from domestic currencies using single year official exchange rates.	World Bank and OECD National Accounts data files.
<b>GDP Growth (Annual %)</b>	Annual percentage growth rate of GDP at market prices based on constant local currency. Aggregates are based on constant 2010 U.S. dollars.	World Bank and OECD National Accounts data files.
<b>GDP per capita (Current US\$)</b>	GDP per capita is gross domestic product divided by midyear population.	World Bank and OECD National Accounts data files.
<b>Gross Production</b>	Production of associated and Non-Associated Natural Gas wet or dry within the boundaries including off and on-shore fields. Associated Natural Gas is the Natural Gas produced in association with crude oil. Non-Associated Natural Gas is Natural Gas originating from fields producing hydrocarbons only in gaseous form.	GECF.
<b>Inflation, Consumer Prices (Annual %)</b>	The annual percentage change in the cost to the average consumer of acquiring a basket of goods and services that may be fixed or changed at specified intervals, such as yearly.	International Monetary Fund, International Financial Statistics and data files.
<b>Labor Force</b>	Comprises people ages 15 and older who supply labor for the production of goods and services during a specified period. It includes people who are currently employed and people who are unemployed but seeking work as well as first-time job-seekers. Not everyone who works is included, however. Unpaid workers, family workers, and students are often omitted, and some countries do not count members of the armed forces.	World Bank
<b>Liquefaction</b>	The process of converting Natural Gas into LNG.	GECF.
<b>Liquefied Natural Gas</b>	Also LNG, natural gas in liquid form; condensed into liquid by cooling it at -161 °C / -260°F, at atmospheric pressure after pre-treatment to condense into liquid.	GECF.
<b>Marketed Production</b>	Gross Production minus Reinjection, Flaring, shrinkage and Other losses. This production is available to be marketed either on the local market or to be exported.	GECF.
<b>Natural Gas</b>	Mixture of hydrocarbons compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with oil in natural underground reservoirs at reservoirs conditions.	GECF.
<b>Natural Gas Use (Scm per Capita)</b>	Use of natural gas before transformation to other end-use fuels, which is equal to gas consumed domestically, excluding gas exports.	GECF.
<b>Other Losses</b>	Refers to the amount of gas which is directly used by upstream facilities at the field perimeter level.	GECF.
<b>Petrochemicals (Feedstock)</b>	Volume of gas consumed as feedstock for petrochemical industry.	GECF.
<b>Population</b>	Counts all residents regardless of legal status or citizenship. The values shown are midyear estimates.	World Bank and OECD National Accounts data files.
<b>Power Generation</b>	Related to Domestic Consumption and Trade tables, it represents the volume of gas consumed to generate electricity.	GECF.
<b>Proven Natural Gas Reserves</b>	Estimated quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing conditions.	BP.
<b>Refineries</b>	Volume of gas consumed as fuel in oil refineries.	GECF.
<b>Regasification</b>	The process of conversion of LNG into gas, its initial and gaseous state. It is a process by which LNG is warmed, usually through a heat exchanger, in order to become once more gaseous before emission into the Gas Grid.	GECF.
<b>Reinjection</b>	Volume of gas processed through non-associated gas processing plants and fields activities, returned to sub-surface formation to enhance recovery rate.	GECF.
<b>Shrinkage</b>	Volume reduction of wet Natural Gas due to the extraction of some of its constituents such as liquid hydrocarbon products and others.	GECF.
<b>Status</b>	Refers to last update of pipeline or plant status (Operational, Under construction or Planned).	GECF.
<b>Train</b>	An independent unit for gas liquefaction. An LNG plant may comprise one or more trains.	GECF.

## Abbreviation, Symbols and Units

Abbreviation	Explanation
%	Percentage.
-	No data applicable.
<b>1000MT</b>	One Thousand Metric Tones.
<b>Bcm</b>	Billion Standard Cubic Metres.
<b>FLNG</b>	Floating Liquefied Natural Gas Facility.
<b>FSRU</b>	Floating Storage Regasification Unit.
<b>GDP</b>	Gross Domestic Products.
<b>Kg</b>	Kilogram.
<b>Km</b>	Kilometre.
<b>LNG</b>	Liquefied Natural Gas.
<b>MCs</b>	Member Countries.
<b>MJ</b>	Mega Joules.
<b>MMcm</b>	Million Standard Cubic Metres
<b>MMT</b>	Million Metric Tons.
<b>MTPA</b>	Million Tons per Annum.
<b>NA</b>	No data available.
<b>OCs</b>	Observer Countries.
<b>PPP</b>	Purchasing Power Parity.
<b>Scm</b>	Standard Cubic Metres.
<b>US\$</b>	United States Dollar.

## Conversion Factors

### Conversion equivalents among LNG & Natural Gas units

From	To	Metric Tons of LNG	Cubic Metres of LNG	Scm
<b>Metric Tons of LNG</b>		1	2.2	1360
<b>Cubic Metres of LNG</b>		0.45	1	615
<b>Scm</b>		$7.35 \times 10^{-4}$	$1.626 \times 10^{-3}$	1

### Conversion equivalents among units of volumes

From	To	Cubic Feet	Litres	Cubic Metres
<b>Cubic Feet</b>		1	28.3	0.0283
<b>Litres</b>		0.0353	1	0.001
<b>Cubic Metres</b>		35.3147	1000	1

## Data Sources

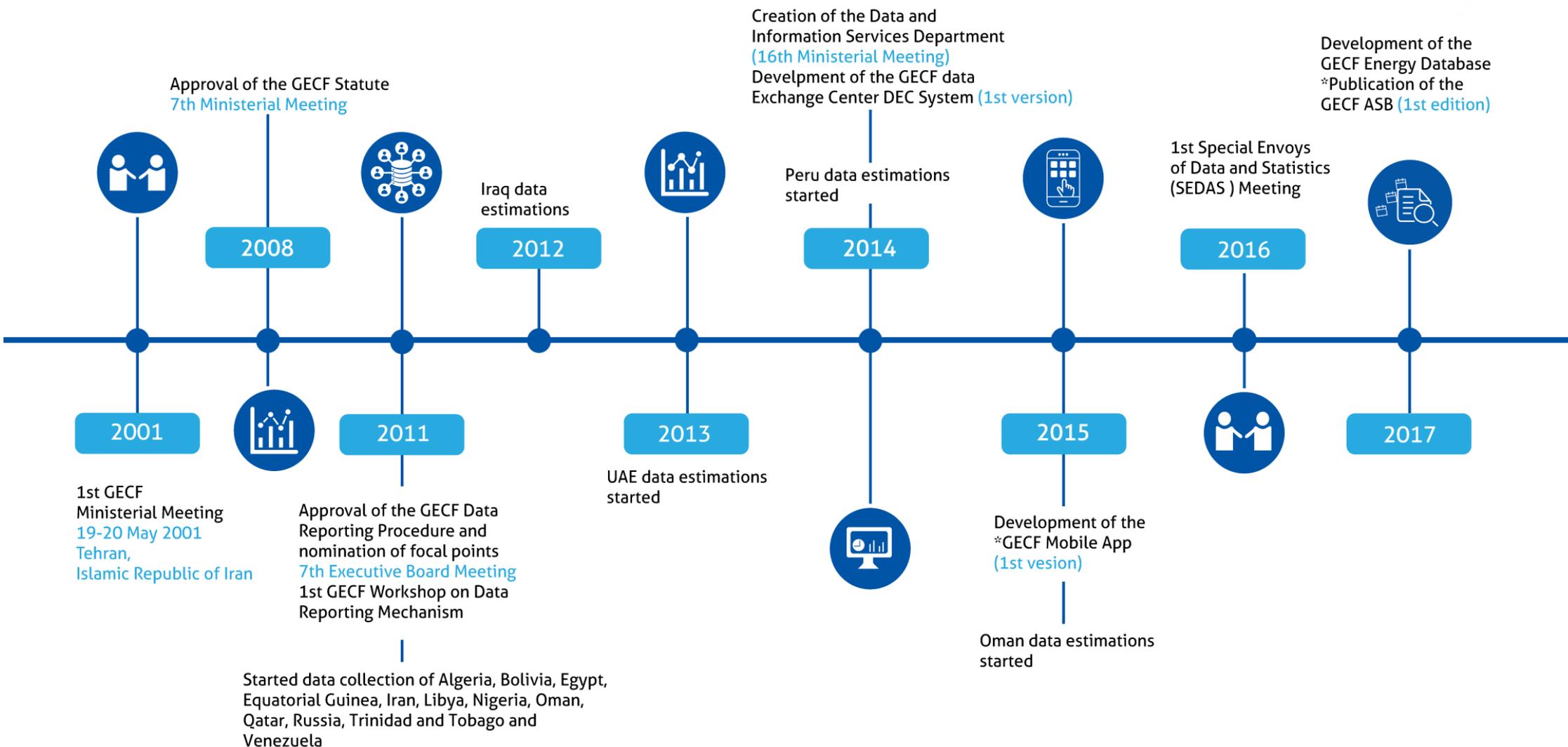
Section	Sources
<b>Macroeconomics</b>	<ul style="list-style-type: none"> <li>From Primary Sources whenever available.</li> <li>Otherwise, complemented with the World Bank data, available until July 25 2023.</li> </ul>
<b>Gas Chain figures (Proven Natural Gas Reserves, Gas Production, others)</b>	<ul style="list-style-type: none"> <li>From Primary Sources whenever available.</li> <li>Otherwise, complemented with GECF Secretariat estimations, from the following Secondary Sources: BP Statistical Review of World Energy, Cedigaz; Natural Gas in the World, EIA, Eurostat, ICIS, Organization of Arab Petroleum Exporting Countries(OAPEC), OECD/IEA, Organization of the Petroleum Exporting Countries(OPEC), United Nations Statistics, World Bank.</li> </ul>
<b>Conversion Factors</b>	<ul style="list-style-type: none"> <li>Joint Organization Data Initiative (JODI) Gas Manual.</li> </ul>
<b>Prices</b>	<ul style="list-style-type: none"> <li>GECF processed Secondary sources from Argus, Refinitiv Eikon.</li> </ul>
<b>images</b>	<ul style="list-style-type: none"> <li>Shutterstock, Pexels</li> </ul>

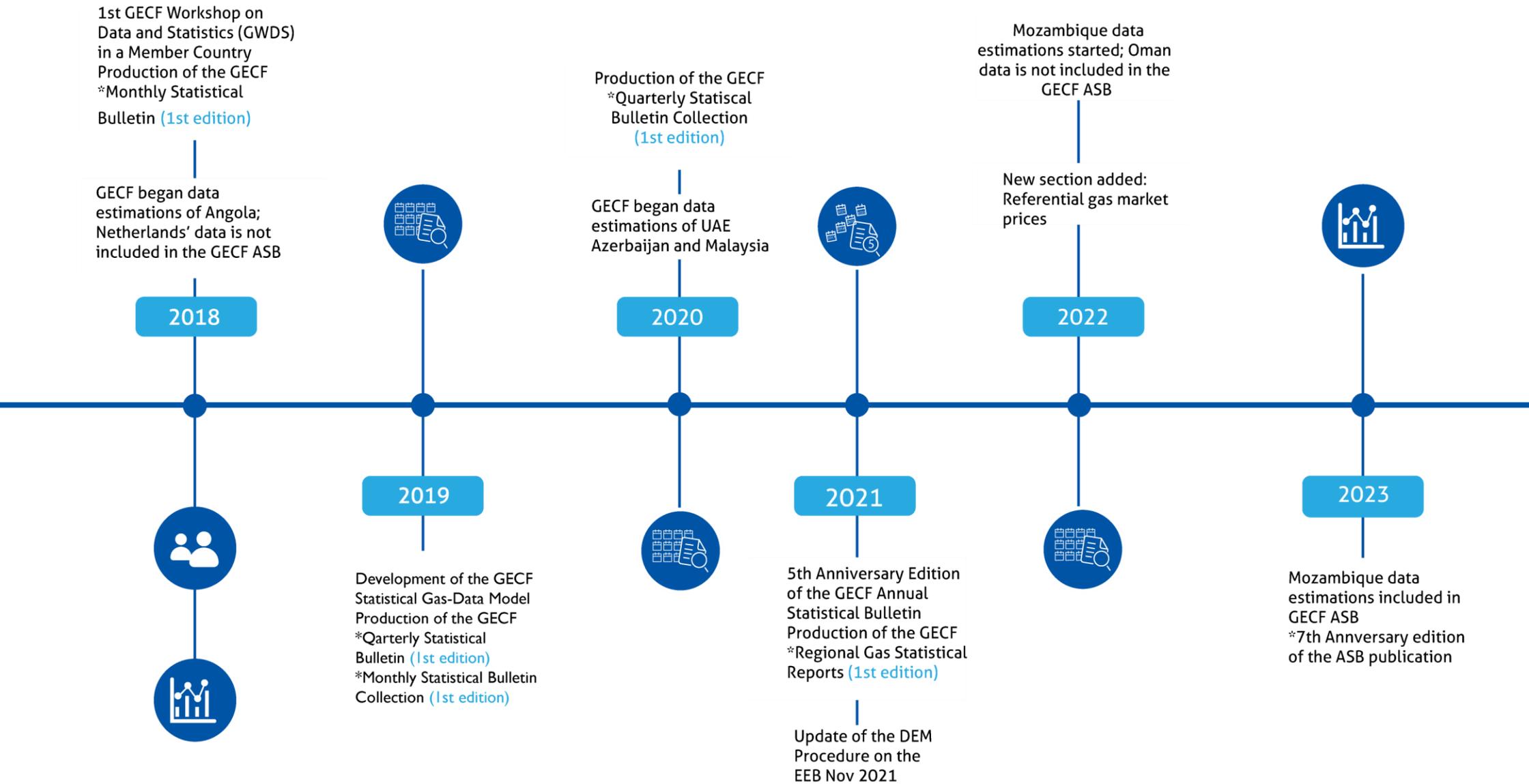
## General Notes

- Current (2023) **GECF Member Countries**: Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago, United Arab Emirates and Venezuela.
- Current (2023) **GECF Observer Countries**: Angola, Azerbaijan, Iraq, Malaysia, Mozambique, Norway and Peru.
- Totals**, in tables, may not add up due to independent rounding.
- When referring to **Standard Cubic Metres (Scm)** International Standard ISO 13443:1996 (Natural Gas – Standard reference conditions) is assumed (15°C, 760mm hg).
- Section 1 (Executive Summary) and Section 3 (GECF in the World), Tables 1.1.1, 3.1.1, 3.2.1, 3.2.3, 3.3.1, 3.3.3, 3.4.1:**
  - Figures calculated with the available data by the time of this publication.
  - GECF figures were calculated according to the official joining year of GECF Members and Observers Countries.

# GECF Data Exchange Mechanism (DEM)

Created in 2011, in order to fulfil the Article I and Article 3-B of GECF statute that highlight the exchange of information among MCs as one of the main objectives of establishment of GECF









Section 1

# Executive Summary

## 1.1 GECF Main Figures

Table 1.1.1. GECF Gas Value Chain Figures (Bcm)

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
GECF Figures*	Gas Proven Reserves (Bcm)	140,556.14	141,377.60	141,590.05	142,115.73	141,868.45	140,919.98	142,079.67	144,653.79	144,431.40	144,692.94	
	Natural Gas Gross Production (Bcm)	1,980.63	1,990.27	1,984.73	2,008.37	2,091.35	2,079.40	2,051.17	2,094.49	2,142.36	2,106.43	
	Natural Gas Marketed Production (Bcm)	1,567.73	1,566.56	1,580.30	1,601.45	1,635.37	1,657.93	1,642.88	1,700.10	1,770.43	1,736.00	
	Natural Gas Domestic Consumption (Bcm)	958.61	977.83	993.55	1,002.32	1,043.02	1,048.18	1,063.06	1,016.33	1,072.23	1,096.21	
	Natural Gas Exports (Bcm)	Pipeline	444.56	407.61	417.76	444.00	468.42	430.64	405.96	403.37	425.47	367.78
		LNG	213.53	217.31	213.91	214.94	221.28	236.09	260.45	280.80	265.33	272.21
<b>Totals</b>		<b>658.09</b>	<b>624.93</b>	<b>631.67</b>	<b>658.94</b>	<b>689.69</b>	<b>666.73</b>	<b>666.41</b>	<b>684.17</b>	<b>690.80</b>	<b>639.98</b>	

\* GECF Figures consider Member Countries and Observer Members in each particular year

Graph 1.1.1. GECF Natural Gas Gross and Marketed Production, Domestic Consumption and Exports (Total) 2013 - 2022 | Bcm

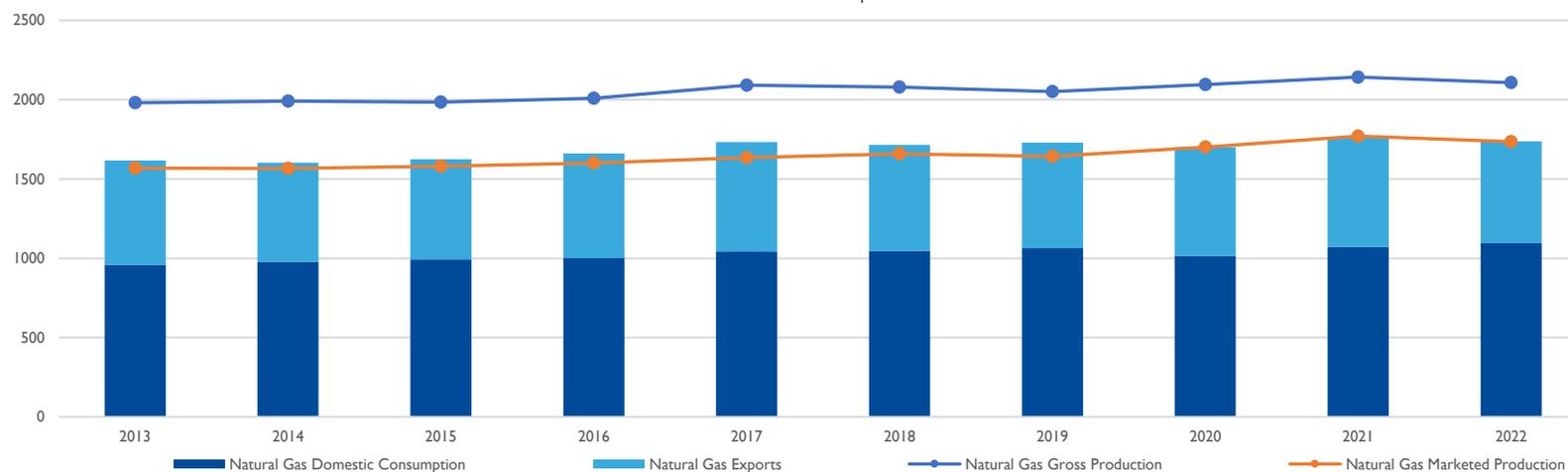
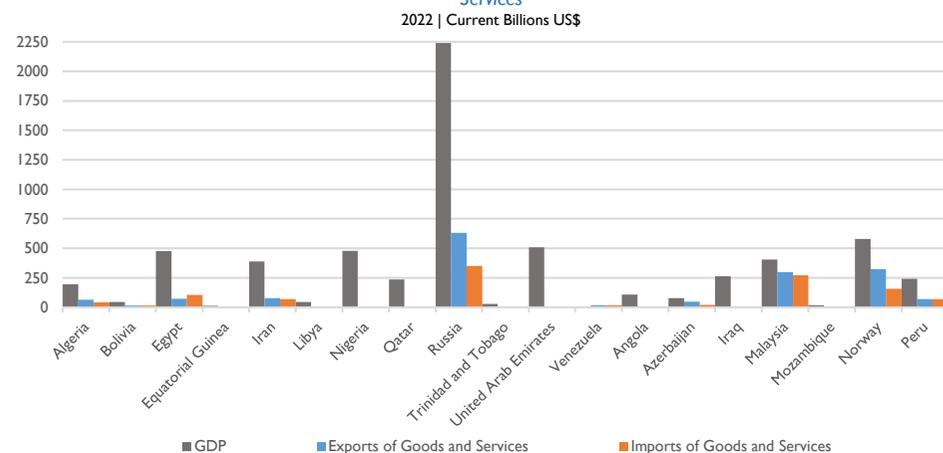


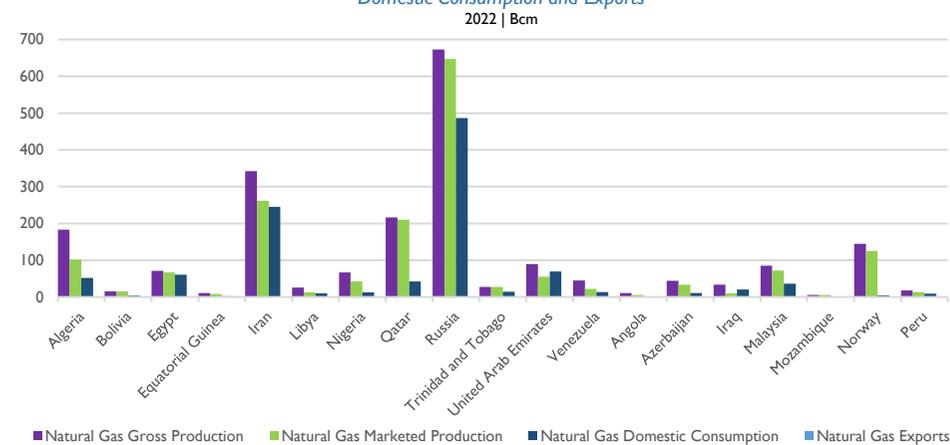
Table 1.1.2. GECF Countries Main Figures in 2022

	Population (Million Inhabitants)	GDP (Current Billion US\$)	GDP Growth (Annual %)	Exports of Goods and Services (Current Billion US\$)	Imports of Goods and Services (Current Billion US\$)	Proven Natural Gas Reserves (Bcm)	Natural Gas Gross Production (Bcm)	Natural Gas Marketed Production (Bcm)	Natural Gas Exports (Pipeline, Bcm)	Natural Gas Exports (LNG, Bcm)	Natural Gas Domestic Consumption (Bcm)	
<b>Members</b>												
Algeria	45.83	194.99	3.10	65.53	43.06	4,504.00	183.07	101.44	35.49	13.65	51.82	
Bolivia	12.01	44.31	3.48	14.45	15.55	253.00	15.52	15.09	10.31	-	4.18	
Egypt	110.99	476.75	6.59	71.93	104.39	2,209.00	70.86	66.80	0.73	11.31	61.00	
Equatorial Guinea	1.67	11.81	3.15	6.66	5.43	39.00	10.82	8.10	-	5.74	2.31	
Iran	88.55	388.54	2.75	76.92	69.45	33,988.00	342.43	262.02	18.04	-	244.89	
Libya	6.81	45.75	-1.24	NA	NA	1,505.00	25.29	12.57	2.48	-	10.09	
Nigeria	221.06	477.39	3.25	NA	NA	5,913.40	66.50	42.10	0.79	24.80	12.97	
Qatar	2.70	237.29	4.83	NA	NA	23,831.00	215.98	210.49	24.04	108.37	42.00	
Russia	146.45	2,240.42	-2.07	631.55	349.17	47,759.00	672.40	647.33	128.94	40.97	486.60	
Trinidad and Tobago	1.53	27.89	2.48	NA	NA	NA	27.71	27.52	-	10.59	14.12	
United Arab Emirates	9.44	507.53	7.41	NA	NA	8,210.00	89.20	55.57	-	7.58	69.49	
Venezuela	28.30	NA	NA	17.70	18.00	5,541.00	45.00	22.31	-	-	13.86	
<b>Observers</b>												
Angola	35.59	106.71	3.05	NA	NA	129.00	10.59	5.39	-	4.17	0.85	
Azerbaijan	10.18	78.72	4.62	47.27	21.27	1,917.00	44.11	33.23	22.67	-	10.59	
Iraq	44.50	264.18	7.01	NA	NA	3,714.00	33.96	9.86	-	-	20.48	
Malaysia	33.94	406.31	8.69	300.00	271.86	2,056.00	85.19	71.77	2.90	37.45	36.12	
Mozambique	32.97	17.85	4.15	NA	NA	650.00	5.36	5.35	4.20	0.05	1.15	
Norway	5.46	579.27	3.28	322.49	158.29	1,958.54	144.26	125.39	117.14	3.27	4.27	
Peru	34.05	242.63	2.68	71.13	70.59	237.00	18.18	13.66	-	4.25	9.41	

Graph 1.1.2. GECF Member, Observer Countries: GDP, Exports and Imports of Good and Services



Graph 1.1.3. GECF Member, Observer Countries: Natural Gas Gross and Marketed Production, Domestic Consumption and Exports







Section 2

# GECF Macroeconomics

## 2.1 Population and Labor Force

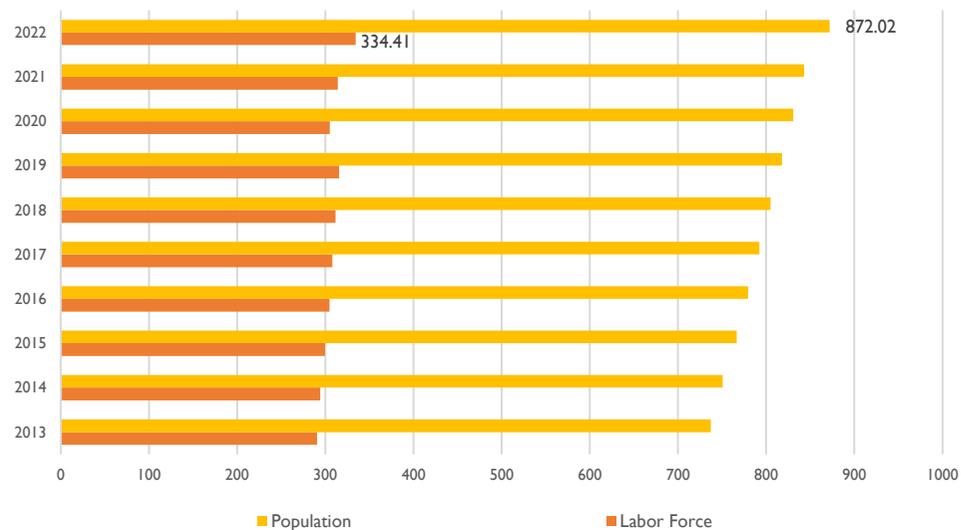
Table 2.1.1. GECF Countries Population (Million Inhabitants)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	38.14	39.10	40.07	40.84	41.70	42.63	43.42	44.23	44.62	45.83
Bolivia	10.52	10.69	10.85	11.02	11.18	11.35	11.51	11.68	11.84	12.01
Egypt	88.40	90.42	92.44	94.45	96.44	98.42	100.39	102.33	104.26	110.99
Equatorial Guinea	1.08	1.12	1.17	1.22	1.26	1.31	1.36	1.40	1.45	1.67
Iran	76.48	77.47	78.49	79.56	80.67	81.80	82.91	83.99	85.03	88.55
Libya	6.32	6.36	6.42	6.49	6.58	6.68	6.78	6.87	6.96	6.81
Nigeria	171.77	176.40	181.14	185.96	190.87	195.87	200.96	206.14	211.40	221.06
Qatar	2.34	2.46	2.57	2.65	2.72	2.78	2.83	2.88	2.93	2.70
Russia	143.51	143.70	146.50	146.80	146.90	146.90	146.80	146.30	145.56	146.45
Trinidad and Tobago	1.34	1.35	1.35	1.35	1.36	1.36	1.36	1.37	1.37	1.53
United Arab Emirates	9.20	9.21	9.26	9.36	9.49	9.63	9.77	9.89	9.99	9.44
Venezuela	29.78	30.04	30.08	29.85	29.40	28.89	28.52	28.44	28.70	28.30
<b>Observers</b>										
Angola	26.02	26.94	27.88	28.84	29.82	30.81	31.83	32.87	33.93	35.59
Azerbaijan	9.42	9.54	9.65	9.76	9.85	9.94	10.02	10.09	10.15	10.18
Iraq	33.16	34.41	35.57	36.61	37.55	38.43	39.31	40.22	41.18	44.50
Malaysia	29.47	29.87	30.27	30.68	31.10	31.53	31.95	32.37	32.78	33.94
Mozambique	25.56	26.29	27.04	27.83	28.65	29.50	30.37	31.26	32.16	32.97
Norway	5.08	5.14	5.19	5.23	5.28	5.31	5.35	5.38	5.41	5.46
Peru	29.77	30.09	30.47	30.93	31.44	31.99	32.51	32.97	33.36	34.05

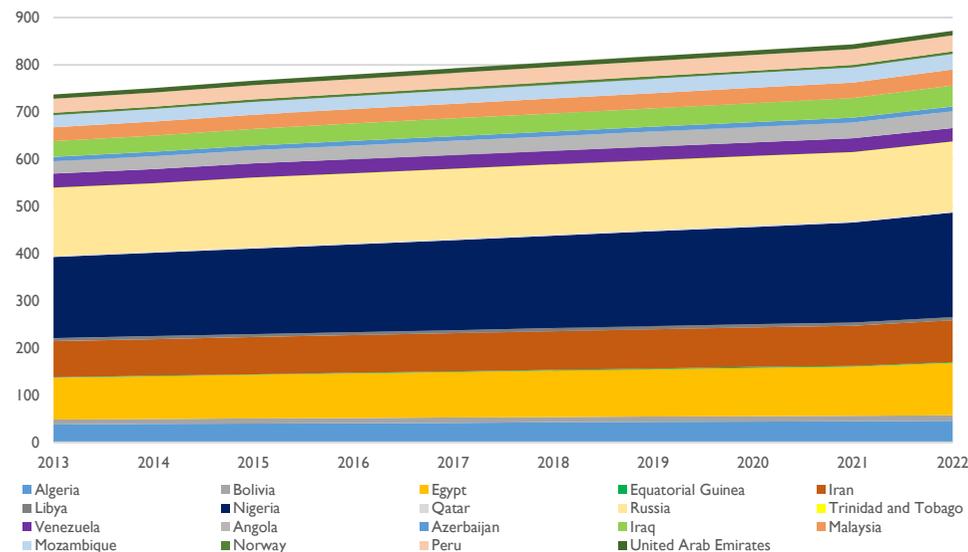
Table 2.1.2. GECF Countries Labor Force (Million Inhabitants)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	12.00	11.59	11.75	11.92	12.11	12.17	12.73	12.06	12.40	12.64
Bolivia	5.14	5.25	5.37	5.48	5.60	5.72	5.83	5.95	6.06	6.18
Egypt	28.72	29.08	28.96	29.25	28.75	28.25	28.04	27.87	28.46	31.17
Equatorial Guinea	0.37	0.39	0.41	0.42	0.44	0.46	0.48	0.48	0.50	0.57
Iran	23.66	23.76	24.71	25.74	26.73	27.20	27.29	25.88	26.41	28.82
Libya	2.15	2.16	2.17	2.20	2.24	2.28	2.32	2.34	2.40	2.32
Nigeria	52.96	54.35	55.82	57.27	58.81	60.45	62.15	62.26	64.48	73.27
Qatar	1.77	1.87	1.96	2.02	2.08	2.12	2.16	2.17	2.21	2.00
Russia	75.53	75.43	76.59	76.64	76.11	76.01	75.88	70.60	71.77	74.93
Trinidad and Tobago	0.65	0.66	0.65	0.64	0.63	0.63	0.67	0.59	0.60	0.68
United Arab Emirates	6.33	6.35	6.38	6.46	6.55	6.51	6.60	6.38	6.50	6.58
Venezuela	13.34	13.49	13.55	13.32	13.01	12.60	12.00	11.06	10.67	10.81
<b>Observers</b>										
Angola	10.62	11.00	11.40	11.80	12.22	12.66	13.12	13.42	13.97	15.04
Azerbaijan	4.70	4.79	4.88	4.97	5.03	5.09	5.10	4.85	4.96	5.16
Iraq	8.30	8.89	9.29	9.62	9.63	9.97	10.24	10.37	10.72	11.18
Malaysia	13.94	14.29	14.62	14.86	15.15	15.52	15.89	16.09	16.28	17.31
Mozambique	11.16	11.40	11.67	12.05	12.45	12.88	13.33	13.66	14.15	14.61
Norway	2.70	2.73	2.77	2.78	2.77	2.81	2.83	2.84	2.97	2.98
Peru	16.51	16.61	16.63	17.32	17.83	18.32	18.80	16.20	18.57	18.16

Graph 2.1.1. GECF Member and Observer Countries Population and Labor Force  
Totals | 2013 - 2022 | Million Inhabitants



Graph 2.1.2. GECF Member and Observer Countries Population  
Per Country | 2013 - 2022 | Million Inhabitants



## 2.2 GDP

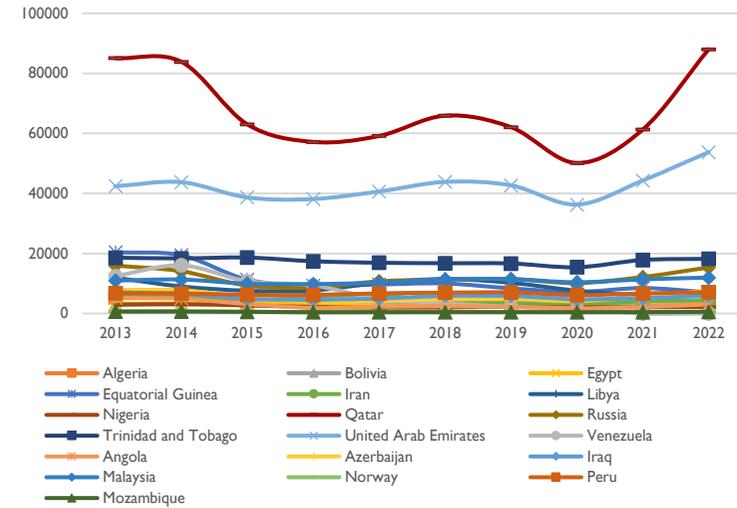
Table 2.2.1. GECF Countries GDP (Current Billion US\$)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	209.76	213.81	165.98	160.13	167.40	173.88	171.76	145.01	163.05	194.99
Bolivia	30.88	33.24	33.24	34.19	37.78	40.58	41.19	36.90	40.70	44.31
Egypt	288.43	305.60	329.37	332.44	235.73	249.71	303.08	365.25	404.14	476.75
Equatorial Guinea	21.95	21.77	13.19	11.24	12.20	13.10	11.36	10.10	12.27	11.81
Iran	492.78	460.38	408.21	457.95	486.63	330.99	291.36	231.55	359.10	388.54
Libya	75.35	57.37	48.72	49.91	67.16	76.68	69.25	52.32	41.88	45.75
Nigeria	508.69	546.68	486.80	404.65	375.75	397.19	448.12	432.29	440.78	477.39
Qatar	198.73	206.22	161.74	151.73	161.10	183.33	175.84	144.41	179.57	237.29
Russia	2,292.47	2,059.24	1,363.48	1,276.79	1,574.20	1,657.33	1,687.45	1,483.50	1,775.80	2,240.42
Trinidad and Tobago	24.93	24.72	25.16	23.57	22.94	22.78	22.74	21.06	24.38	27.89
United Arab Emirates	390.11	403.14	358.13	357.05	385.61	422.22	417.22	358.87	415.02	507.53
Venezuela	258.99	203.82	323.60	279.25	143.84	98.44	63.96	47.26	NA	NA
<b>Observers</b>										
Angola	133.40	137.24	87.22	49.84	68.97	77.79	69.31	53.62	72.55	106.71
Azerbaijan	74.16	75.24	53.07	37.87	40.87	47.11	48.17	42.69	54.62	78.72
Iraq	234.64	228.42	166.77	166.60	187.22	227.37	233.64	184.37	207.89	264.18
Malaysia	323.28	338.06	301.35	301.26	319.11	358.79	365.28	337.01	372.70	406.31
Mozambique	16.97	17.72	15.95	11.94	13.22	14.85	15.39	14.03	16.10	17.85
Norway	522.76	498.41	385.80	368.83	398.39	437.00	404.94	362.20	482.44	579.27
Peru	201.18	200.79	189.81	191.90	211.01	222.60	228.32	201.71	223.25	242.63

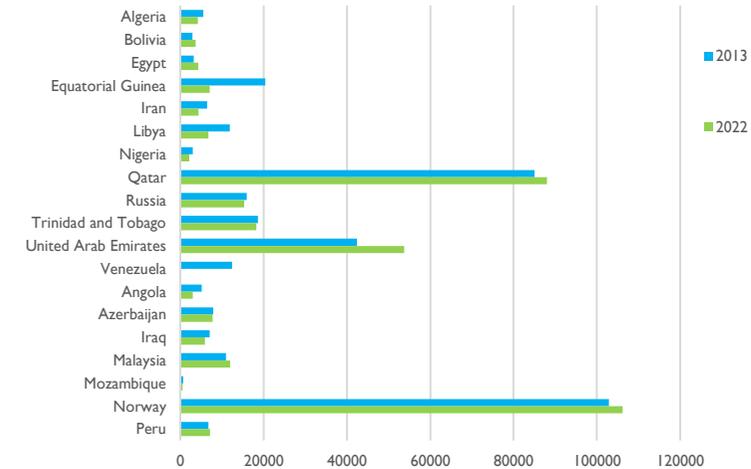
Table 2.2.2. GECF Countries GDP per Capita (Current US\$)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	5,499.72	5,468.29	4,141.96	3,920.78	4,014.47	4,079.01	3,955.41	3,278.74	3,654.47	4,273.92
Bolivia	2,935.28	3,110.30	3,063.35	3,103.41	3,378.87	3,576.31	3,578.15	3,159.68	3,437.16	3,691.06
Egypt	3,262.66	3,379.56	3,562.93	3,519.87	2,444.29	2,537.13	3,019.09	3,569.21	3,876.36	4,295.41
Equatorial Guinea	20,390.74	19,394.08	11,283.40	9,250.32	9,667.86	10,005.62	8,380.74	7,198.34	8,462.29	7,053.47
Iran	6,443.03	5,943.05	5,200.68	5,755.80	6,032.07	4,046.34	3,514.04	2,756.75	4,084.20	4,387.83
Libya	11,921.91	9,017.93	7,590.44	7,687.88	10,205.32	11,482.13	10,218.04	7,614.33	6,018.45	6,716.10
Nigeria	2,961.55	3,098.99	2,687.48	2,176.00	1,968.57	2,027.78	2,229.86	2,097.09	2,085.03	2,159.53
Qatar	85,050.68	83,858.34	63,039.11	57,162.97	59,124.87	65,907.95	62,087.97	50,124.39	61,276.00	88,046.32
Russia	15,974.64	14,095.65	9,313.01	8,704.90	10,720.33	11,287.36	11,497.65	10,126.72	12,172.79	15,345.10
Trinidad and Tobago	18,599.26	18,374.57	18,642.38	17,410.10	16,909.10	16,758.03	16,670.52	15,410.24	17,827.79	18,222.26
United Arab Emirates	42,412.64	43,751.82	38,663.39	38,141.88	40,644.79	43,839.32	42,701.44	36,284.56	44,315.55	53,757.86
Venezuela	12,457.77	16,055.65	10,757.16	9,354.68	4,892.14	3,407.64	2,242.96	1,661.81	NA	NA
<b>Observers</b>										
Angola	5,127.72	5,094.11	3,127.89	1,728.02	2,313.22	2,524.94	2,177.80	1,631.43	2,137.91	2,998.50
Azerbaijan	7,875.76	7,891.31	5,500.31	3,880.74	4,147.09	4,739.84	4,805.75	4,229.91	5,384.03	7,736.70
Iraq	7,076.55	6,637.68	4,688.32	4,550.66	4,985.45	5,915.85	5,943.46	4,583.75	5,048.39	5,937.20
Malaysia	10,970.10	11,319.06	9,955.24	9,817.79	10,259.30	11,380.08	11,432.83	10,412.35	11,371.10	11,971.93
Mozambique	664.08	673.97	589.86	428.93	461.41	503.30	506.82	448.84	500.44	541.45
Norway	102,913.45	97,019.18	74,355.52	70,460.56	75,496.75	82,267.81	75,719.75	67,329.68	89,202.75	106,148.78
Peru	6,756.75	6,672.88	6,229.10	6,205.00	6,710.51	6,958.50	7,023.08	6,117.49	6,692.25	7,125.83

Graph 2.2.1. GECF Member and Observer Countries GDP Per Capita | 2013 - 2022 Current Billion US\$



Graph 2.2.2. GECF Member and Observer Countries GDP per Capita 2013 vs 2022 | Current US\$



## 2.3 Exports & Imports of Goods and Services

Table 2.3.1. Exports of Goods &amp; Services

	(Current Billion US\$)										(% of GDP)									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>																				
Algeria	69.66	64.66	38.58	33.40	37.94	44.56	39.01	25.11	43.34	60.79	33.21	30.24	23.24	20.86	22.66	25.62	22.71	17.32	26.60	31.68
Bolivia	13.62	14.39	10.26	8.37	9.41	10.55	10.28	7.48	11.33	14.45	44.09	43.29	30.87	24.49	24.90	25.99	24.97	20.27	27.82	32.62
Egypt	49.09	43.53	43.42	34.39	37.29	47.23	53.04	47.87	44.85	71.93	17.02	14.24	13.18	10.35	15.82	18.91	17.50	13.11	11.10	15.09
Equatorial Guinea	14.85	14.36	7.47	5.78	7.18	7.81	5.81	4.39	6.81	6.66	67.65	65.96	56.66	51.41	58.86	59.61	51.13	43.49	55.47	56.34
Iran	124.10	105.11	76.42	96.91	110.64	100.02	66.17	48.05	82.01	76.92	25.18	22.83	18.72	21.16	22.74	30.22	22.71	20.75	22.84	19.80
Libya	45.13	18.50	10.83	7.28	18.27	30.38	29.66	8.61	NA	NA	59.89	32.24	22.23	14.58	27.20	39.61	42.84	33.89	NA	NA
Nigeria	91.82	100.78	51.92	37.30	49.49	61.55	63.73	35.08	47.34	NA	18.05	18.44	10.67	9.22	13.17	15.50	14.22	8.12	10.74	NA
Qatar	144.51	140.23	92.29	72.40	85.20	102.56	92.05	70.93	105.86	NA	72.72	68.00	57.06	47.71	52.89	55.94	52.35	49.12	58.91	NA
Russia	592.50	558.28	391.37	330.11	410.72	510.35	481.54	378.64	547.74	631.55	25.85	27.11	28.70	25.85	26.09	30.79	28.54	25.52	30.84	28.19
Trinidad and Tobago	17.91	15.30	11.73	8.50	9.64	10.76	8.76	6.00	11.08	NA	71.84	61.89	46.61	36.08	42.04	47.22	38.54	28.50	45.45	NA
United Arab Emirates	392.24	401.37	361.25	360.63	384.04	392.86	404.05	335.24	NA	NA	100.55	99.56	100.87	101.00	99.59	93.05	96.84	93.42	NA	NA
Venezuela	91.88	80.52	37.25	27.61	33.89	33.60	20.68	8.24	10.10	17.70	35.48	39.51	11.51	9.89	23.56	34.14	32.33	17.43	NA	NA
<b>Observers</b>																				
Angola	67.70	61.34	25.95	14.02	20.00	31.77	28.27	20.33	27.48	NA	50.75	44.70	29.75	28.12	29.00	40.84	40.79	37.91	37.87	25.92
Azerbaijan	35.91	32.56	20.06	17.58	19.84	25.48	23.63	15.21	25.49	47.27	48.42	43.27	37.79	46.43	48.55	54.09	49.05	35.62	46.66	60.05
Iraq	93.07	88.95	57.56	46.83	63.50	92.77	88.90	50.19	NA	NA	39.66	38.94	34.51	28.11	33.92	40.80	38.05	27.22	NA	NA
Malaysia	244.49	249.47	209.29	201.16	223.42	245.97	238.38	207.04	256.78	300.00	75.63	73.79	69.45	66.78	70.01	68.55	65.26	61.43	68.90	73.84
Mozambique	4.54	5.54	4.96	4.00	5.10	6.66	4.97	4.19	NA	NA	26.74	31.28	31.08	33.55	38.58	44.87	32.27	29.87	NA	NA
Norway	204.91	194.36	145.84	130.79	144.75	165.94	146.84	116.79	200.54	322.49	39.20	39.00	37.80	35.46	36.33	37.97	36.26	32.25	41.57	55.67
Peru	49.91	45.39	40.40	43.37	52.16	56.08	54.89	45.14	64.93	71.13	24.81	22.61	21.29	22.60	24.72	25.19	24.04	22.38	29.09	29.32

Table 2.3.2. Imports of Goods &amp; Services

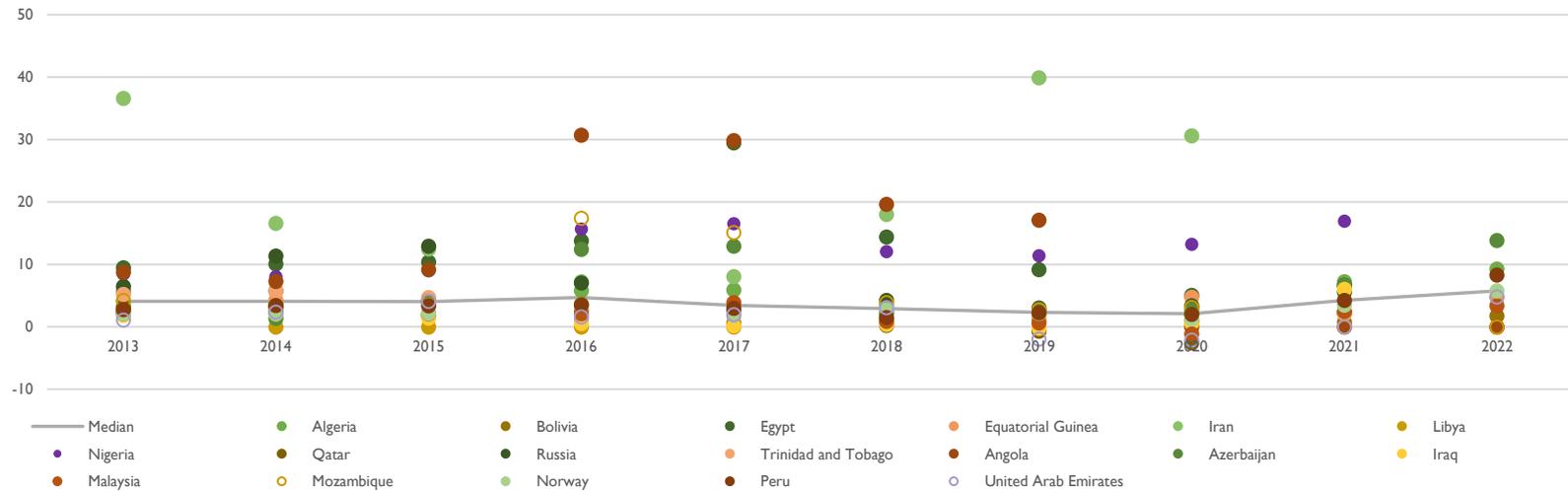
	(Current Billion US\$)										(% of GDP)									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>																				
Algeria	63.77	68.31	60.81	56.09	55.60	56.24	49.97	40.60	43.02	43.06	30.40	31.95	36.64	35.03	33.20	32.30	29.10	28.00	26.39	22.44
Bolivia	11.47	13.95	12.32	10.91	12.01	12.63	12.95	9.31	12.70	15.55	37.14	41.97	37.06	31.91	31.80	31.12	31.43	25.23	31.19	35.09
Egypt	67.36	69.30	71.35	66.16	69.09	73.33	78.01	75.43	81.94	104.39	23.36	22.68	21.66	19.90	29.31	29.37	25.74	20.65	20.28	21.90
Equatorial Guinea	8.61	8.36	5.57	4.63	5.32	5.77	4.97	4.64	5.72	5.43	39.24	38.42	42.22	41.19	43.57	44.03	43.75	45.94	46.59	45.99
Iran	107.94	103.68	84.51	88.05	107.10	93.23	79.66	59.11	77.33	69.45	21.90	22.52	20.70	19.23	22.01	28.17	27.34	25.53	21.53	17.88
Libya	35.00	25.41	16.89	13.24	13.67	18.53	24.50	20.38	NA	NA	46.45	44.29	34.68	26.53	20.35	24.17	35.37	38.95	NA	NA
Nigeria	66.12	68.06	51.92	46.55	49.51	69.55	88.74	35.59	47.34	NA	13.00	12.45	10.67	11.50	13.18	17.51	19.80	8.23	11.84	NA
Qatar	58.95	64.00	59.27	63.48	62.19	65.81	66.77	59.06	61.33	NA	29.67	31.04	36.65	41.83	38.61	35.90	37.97	40.90	34.13	NA
Russia	468.62	426.06	281.64	263.83	327.21	344.52	352.81	305.01	378.03	349.17	20.44	20.69	20.66	20.66	20.79	20.79	20.91	20.56	21.29	15.59
Trinidad and Tobago	9.28	7.92	7.53	7.09	6.45	6.62	6.03	5.02	6.37	NA	37.20	32.04	29.93	30.07	28.12	29.05	26.53	23.83	26.13	NA
United Arab Emirates	252.51	277.89	266.28	270.44	290.78	281.54	295.60	246.89	NA	NA	64.73	68.93	74.35	75.74	75.41	66.68	70.85	68.80	NA	NA
Venezuela	109.49	151.45	36.50	17.98	13.36	13.51	7.19	8.41	12.00	18.00	42.28	74.30	11.28	6.44	9.29	13.72	11.24	17.79	NA	NA
<b>Observers</b>																				
Angola	48.11	47.54	28.90	12.58	16.04	19.87	11.81	10.16	10.92	NA	36.06	34.64	33.13	25.25	23.25	25.54	17.04	18.95	15.05	11.64
Azerbaijan	19.48	19.72	18.47	16.53	17.10	17.71	17.71	15.54	16.34	21.27	26.26	26.21	34.81	43.65	41.85	37.58	36.77	36.39	29.91	27.03
Iraq	65.10	68.62	58.50	44.12	48.42	56.84	72.28	54.27	NA	NA	27.75	30.04	35.08	26.48	25.86	25.00	30.94	29.43	NA	NA
Malaysia	216.89	218.11	186.60	181.13	201.50	221.90	210.89	185.32	230.44	271.86	67.09	64.52	61.92	60.12	63.14	61.85	57.73	54.99	61.83	66.91
Mozambique	12.97	14.20	10.02	8.61	8.08	12.22	12.27	10.30	NA	NA	76.41	80.18	62.83	72.09	61.14	82.33	79.73	73.42	NA	NA
Norway	148.20	147.86	123.68	123.48	130.80	140.88	140.84	119.83	140.45	158.29	28.35	29.67	32.06	33.48	32.83	32.24	34.78	33.09	29.11	27.33
Peru	50.25	48.68	45.32	43.73	48.10	52.18	52.30	42.66	58.98	70.59	24.98	24.25	23.88	22.79	22.79	23.44	22.90	21.15	26.42	29.09

## 2.4 Inflation

Table 2.4.1. Inflation Consumer Prices (Annual %)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	4.10	3.90	4.40	5.80	5.90	3.50	2.40	2.10	7.23	9.27
Bolivia	5.74	5.76	4.06	3.62	2.82	2.27	1.84	0.94	0.74	1.75
Egypt	9.47	10.07	10.37	13.81	29.51	14.40	9.15	5.04	5.55	13.90
Equatorial Guinea	2.95	4.31	1.68	1.41	0.75	1.35	1.24	4.77	2.10	4.79
Iran	36.60	16.61	12.48	7.25	8.04	18.01	39.91	30.59	NA	NA
Libya	2.61	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nigeria	8.48	8.06	9.01	15.68	16.52	12.09	11.40	13.25	16.95	18.85
Qatar	3.22	3.35	1.81	2.68	0.39	0.26	-0.67	-2.54	2.30	5.00
Russia	6.47	11.35	12.91	7.04	2.51	4.26	3.04	3.38	6.69	NA
Trinidad and Tobago	5.20	5.70	4.70	3.10	1.90	1.00	1.00	0.60	2.10	NA
United Arab Emirates	1.10	2.35	4.07	1.62	1.97	3.07	-1.93	-2.08	-0.01	4.83
Venezuela	498.10	839.50	2,357.90	8,826.90	84,970.30	110,597,550.20	10,711,919,274.40	327,767,509,170.00	2,577,508,248,886	8,610,897,384,090
<b>Observers</b>										
Angola	8.78	7.28	9.15	30.70	29.84	19.63	17.08	22.27	25.75	NA
Azerbaijan	2.42	1.37	4.03	12.44	12.94	2.27	2.61	2.76	6.65	13.85
Iraq	1.88	2.24	1.39	0.56	0.18	0.37	-0.20	0.57	6.04	NA
Malaysia	2.11	3.14	2.10	2.09	3.87	0.88	0.66	-1.14	2.48	3.38
Mozambique	4.26	2.56	3.55	17.42	15.11	3.91	2.78	3.14	NA	NA
Norway	2.12	2.04	2.17	3.55	1.88	2.76	2.17	1.29	3.48	5.76
Peru	2.77	3.41	3.40	3.56	2.99	1.51	2.25	2.00	4.27	8.33

Graph 2.4.1. GECF Member and Observer Countries Inflation 2013- 2022 | Annual %



## 2.5 Energy Indicators

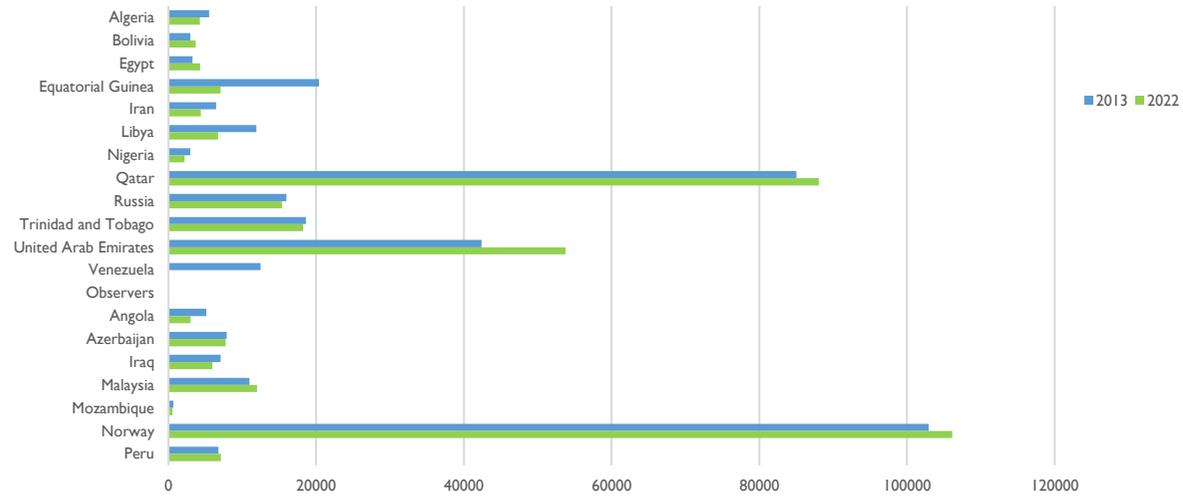
Table 2.5.1. Energy Use (kg of Oil Equivalent per Capita)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	1,247.50	1,333.90	1,368.70	1,347.70	1,339.90	1,430.90	1,433.30	1,325.02	1,416.77	1,441.12
Bolivia	668.44	714.37	731.92	747.72	736.06	718.88	671.97	586.62	622.87	617.63
Egypt	848.63	827.50	NA							
Equatorial Guinea	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iran	2,889.11	3,060.39	NA							
Libya	3,071.82	2,808.65	NA							
Nigeria	780.14	763.63	NA							
Qatar	17,266.10	17,922.70	NA							
Russia	5,078.63	4,942.88	NA							
Trinidad and Tobago	14,478.85	14,363.57	NA							
United Arab Emirates	7,604.84	7,648.39	NA							
Venezuela	2,308.94	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Observers</b>										
Angola	533.76	544.61	NA							
Azerbaijan	1,474.00	1,502.08	NA							
Iraq	1,488.56	1,437.90	NA							
Malaysia	2,979.64	3,003.45	NA							
Mozambique	427.67	442.66	NA							
Norway	6,415.99	5,595.65	5,817.64	NA						
Peru	684.15	790.22	NA							

Table 2.5.2. Natural Gas Use (Scm per Capita)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	852.80	951.59	1,005.62	990.42	1,002.78	1,058.86	1,068.44	1,018.22	1,110.82	1,130.58
Bolivia	320.25	354.37	363.74	405.84	399.54	427.83	392.80	307.92	345.31	339.91
Egypt	579.70	531.32	517.03	542.94	603.02	622.73	603.59	587.97	608.75	549.60
Equatorial Guinea	1,365.65	1,282.22	1,101.34	1,310.92	1,248.80	1,162.31	1,095.34	1,336.93	1,559.70	1,382.09
Iran	2,243.27	2,427.14	2,585.86	2,653.84	2,699.26	2,785.14	2,788.68	2,774.01	2,837.28	2,765.58
Libya	1,809.73	1,598.70	1,354.35	1,309.32	1,240.33	1,245.49	1,238.68	1,138.31	1,287.63	1,481.22
Nigeria	44.83	43.82	61.32	47.74	58.00	62.13	60.19	63.97	65.55	58.68
Qatar	16,378.03	16,476.83	15,960.51	14,579.68	13,954.35	14,710.33	14,662.95	14,052.61	13,226.66	13,802.71
Russia	2,960.16	2,968.23	2,801.95	2,847.27	2,940.68	3,081.90	3,033.42	2,921.30	3,295.25	3,322.69
Trinidad and Tobago	12,663.01	12,390.23	12,329.53	11,121.73	10,865.13	11,098.99	11,138.85	9,707.85	10,653.45	9,223.51
United Arab Emirates	7,273.39	7,152.02	7,851.76	7,668.00	7,547.01	7,272.38	6,982.91	7,154.84	6,951.20	7,360.73
Venezuela	753.43	732.68	829.67	872.66	869.65	734.68	615.42	521.36	494.60	489.57
<b>Observers</b>										
Angola	15.79	11.14	27.61	27.74	26.46	25.64	25.61	25.16	24.49	23.75
Azerbaijan	1,005.44	1,040.16	1,127.54	1,075.92	954.81	1,088.56	1,176.14	1,124.53	1,104.95	1,040.72
Iraq	194.19	197.68	194.08	230.66	269.95	347.48	445.52	466.98	469.27	460.22
Malaysia	1,113.38	1,177.90	1,049.03	1,052.25	1,070.48	1,091.00	1,157.07	1,026.17	1,056.13	1,064.37
Mozambique	61.03	68.48	70.08	65.04	60.04	50.18	51.04	47.99	33.27	34.88
Norway	700.90	835.89	872.80	881.10	893.74	861.68	879.96	783.16	802.05	782.42
Peru	219.15	254.90	251.06	275.52	237.98	247.21	253.92	216.55	240.11	276.34

Graph 2.5.2.1. GECEF Member and Observer Countries Natural Gas Use  
2012 vs 2021 | Scm Per Capita



Graph 2.5.2.2. GECEF Member and Observer Countries Natural Gas Use  
2013 - 2022 | Annual Scm Per Capita







## Section 3

# GECF in the World

### 3.1 Proven Natural Gas Reserves

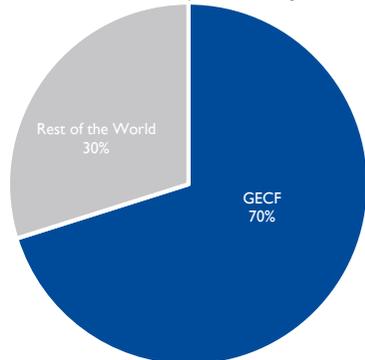
Table 3.1.1. Historical Proven Natural Gas Reserves of GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>World</b>	<b>201,033</b>	<b>201,060</b>	<b>199,766</b>	<b>201,305</b>	<b>204,370</b>	<b>202,354</b>	<b>204,007</b>	<b>202,010</b>	<b>205,845</b>	<b>206,222</b>
<b>GECF Totals</b>	<b>140,556</b>	<b>141,378</b>	<b>141,590</b>	<b>142,116</b>	<b>141,868</b>	<b>140,920</b>	<b>142,080</b>	<b>144,654</b>	<b>144,431</b>	<b>144,693</b>
Members	133,847	134,460	134,042	134,669	133,949	133,589	134,869	125,718	125,761	134,031
Observers	6,709	6,918	7,548	7,447	7,919	7,331	7,211	18,936	18,670	10,662
<b>GECF Share</b>	<b>70%</b>	<b>70%</b>	<b>71%</b>	<b>71%</b>	<b>69%</b>	<b>70%</b>	<b>70%</b>	<b>72%</b>	<b>70%</b>	<b>70%</b>

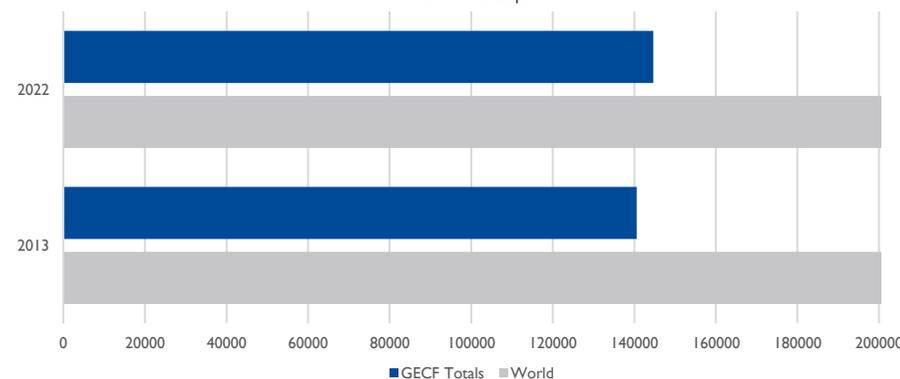
Table 3.1.2. Proven Natural Gas Reserves of Current GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504
Bolivia	296	296	296	296	255	253	253	253	253	253
Egypt	1,777	2,186	2,086	2,221	2,221	2,221	2,221	2,209	2,209	2,209
Equatorial Guinea	66	60	54	47	42	42	39	39	39	39
Iran	33,850	33,440	33,720	33,820	33,330	33,899	33,899	33,988	33,988	33,988
Libya	1,506	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505
Nigeria	5,108	5,303	5,280	5,475	5,627	5,685	5,761	5,750	5,848	5,913
Qatar	24,681	24,531	24,299	24,073	23,861	23,846	23,831	23,831	23,831	23,831
Russia	49,335	49,896	50,205	50,617	50,508	49,571	49,154	47,759	47,759	47,759
Trinidad and Tobago	347	326	300	281	298	298	302	290	NA	NA
United Arab Emirates	6,091	6,091	6,091	6,091	6,091	6,091	7,726	7,730	8,200	8,210
Venezuela	5,581	5,617	5,702	5,740	5,708	5,674	5,674	5,590	5,541	5,541
<b>Observers</b>										
Angola	275	308	308	440	422	384	343	301	301	129
Azerbaijan	1,308	1,300	1,292	1,284	1,277	1,270	1,435	1,917	1,917	1,917
Iraq	3,158	3,158	3,158	3,158	3,820	3,744	3,729	3,714	3,714	3,714
Malaysia	2,782	2,849	2,842	2,470	2,346	2,290	2,213	2,206	2,179	2,056
Mozambique	75	75	75	75	186	186	650	650	650	650
Norway	2,654	2,547	2,461	2,388	2,334	2,226	2,165	2,095	2,072	1,959
Peru	426	414	399	456	365	300	300	300	287	237

Graph 3.1.1. GECF and Rest of the World Natural Gas Proven Reserves 2022 | Bcm, Percentage



Graph 3.1.2. GECF Countries vs Rest of the World Natural Gas Proven Reserves 2013 vs 2022 | Bcm



### 3.2 Natural Gas Production

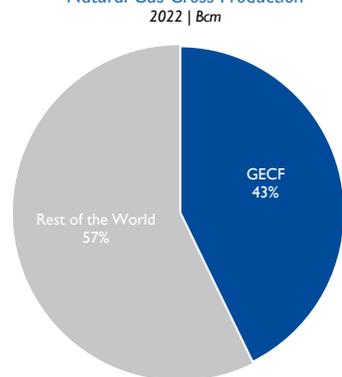
Table 3.2.1. Historical Natural Gas Gross Production of GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>World</b>	<b>4,278.79</b>	<b>4,349.63</b>	<b>4,406.34</b>	<b>4,437.97</b>	<b>4,577.82</b>	<b>4,697.26</b>	<b>4,837.11</b>	<b>4,783.28</b>	<b>4,881.48</b>	<b>4,925.17</b>
<b>GECF Totals</b>	<b>1,980.63</b>	<b>1,990.27</b>	<b>1,984.73</b>	<b>2,008.37</b>	<b>2,091.35</b>	<b>2,079.40</b>	<b>2,051.17</b>	<b>2,094.49</b>	<b>2,142.4</b>	<b>2,106.4</b>
<b>Members</b>	<b>1,720.84</b>	<b>1,718.90</b>	<b>1,681.30</b>	<b>1,702.55</b>	<b>1,789.81</b>	<b>1,807.65</b>	<b>1,786.18</b>	<b>1,641.67</b>	<b>1,728.1</b>	<b>1,764.8</b>
<b>Observers</b>	<b>259.79</b>	<b>271.36</b>	<b>303.43</b>	<b>305.82</b>	<b>301.54</b>	<b>271.74</b>	<b>264.99</b>	<b>452.82</b>	<b>414.2</b>	<b>341.7</b>
<b>GECF Share</b>	<b>46%</b>	<b>46%</b>	<b>45%</b>	<b>45%</b>	<b>46%</b>	<b>44%</b>	<b>42%</b>	<b>44%</b>	<b>44%</b>	<b>43%</b>

Table 3.2.2. Natural Gas Gross Production of Current GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
<b>Algeria</b>	179.49	186.75	183.83	189.14	188.74	183.55	175.35	168.39	179.04	183.07
<b>Bolivia</b>	21.27	22.39	22.17	21.34	20.70	19.34	17.05	16.38	16.94	15.52
<b>Egypt</b>	57.82	53.37	49.37	46.90	55.77	65.83	71.99	65.32	74.80	70.86
<b>Equatorial Guinea</b>	14.00	13.89	15.45	14.76	13.80	12.66	12.16	11.15	9.97	10.82
<b>Iran</b>	229.83	245.68	256.98	277.39	301.45	311.49	322.50	329.86	334.53	342.43
<b>Libya</b>	22.88	20.94	22.56	24.59	27.55	30.32	32.66	25.54	26.35	25.29
<b>Nigeria</b>	79.63	86.33	80.89	72.95	79.49	80.27	81.05	77.23	71.47	66.50
<b>Qatar</b>	207.05	206.99	206.45	206.69	207.09	210.55	209.31	211.50	215.02	215.98
<b>Russia</b>	667.59	642.81	633.54	640.81	692.00	694.32	677.90	658.54	728.21	672.40
<b>Trinidad and Tobago</b>	42.82	42.03	39.59	34.42	34.70	36.46	36.36	30.87	25.86	27.71
<b>United Arab Emirates</b>	84.32	84.31	90.27	91.40	91.63	95.43	93.66	89.49	88.40	89.20
<b>Venezuela</b>	76.44	76.00	80.20	82.16	76.89	67.44	56.21	46.88	45.95	45.00
<b>Observers</b>										
<b>Angola</b>	10.76	10.44	10.54	11.71	14.95	13.88	12.91	13.15	11.45	10.59
<b>Azerbaijan</b>	28.51	28.89	28.14	28.28	27.17	28.21	33.60	34.97	41.77	44.11
<b>Iraq</b>	27.65	28.88	30.15	34.32	35.15	36.33	37.12	29.45	33.55	33.96
<b>Malaysia</b>	80.06	80.66	77.94	79.52	86.60	80.43	82.29	76.47	80.24	85.19
<b>Mozambique</b>	5.28	5.60	5.71	5.81	5.81	5.61	5.51	5.41	5.38	5.36
<b>Norway</b>	145.80	152.89	162.79	162.03	164.66	160.01	152.02	147.73	142.73	144.26
<b>Peru</b>	16.22	18.46	17.29	19.62	18.42	17.11	17.99	16.40	16.09	18.18

Graph 3.2.1. GECF Countries and Rest of the World Natural Gas Gross Production



Graph 3.2.2. GECF Countries vs Rest of the World Natural Gas Gross Production

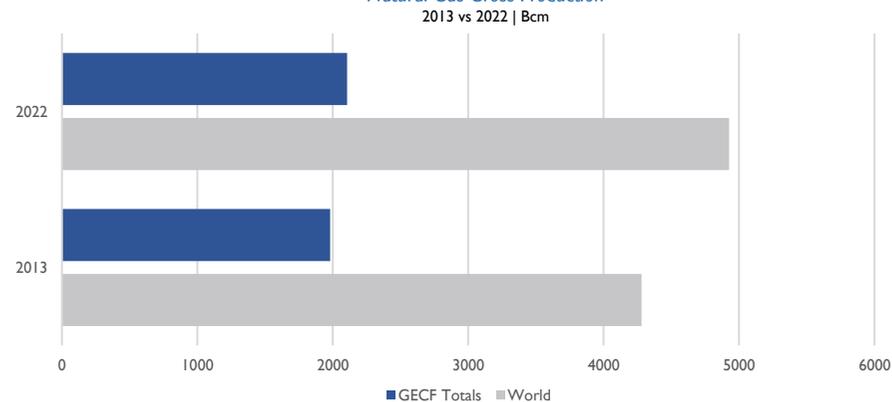


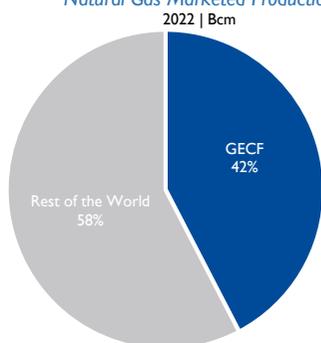
Table 3.2.3. Historical Natural Gas Marketed Production of GEFC Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>World</b>	<b>3,434.99</b>	<b>3,495.64</b>	<b>3,566.42</b>	<b>3,599.01</b>	<b>3,692.19</b>	<b>3,842.37</b>	<b>3,987.26</b>	<b>3,907.83</b>	<b>4,069.16</b>	<b>4,100.02</b>
<b>GEFC Totals</b>	1,567.73	1,566.56	1,580.30	1,601.45	1,635.37	1,657.93	1,642.88	1,700.10	1,770.43	1,736.00
Members	1,364.86	1,363.15	1,354.68	1,375.22	1,410.49	1,465.65	1,456.13	1,378.13	1,471.89	1,471.35
Observers	202.87	203.41	225.61	226.23	224.88	192.28	186.75	321.97	298.54	264.66
<b>GEFC Share</b>	<b>46%</b>	<b>45%</b>	<b>44%</b>	<b>44%</b>	<b>44%</b>	<b>43%</b>	<b>41%</b>	<b>44%</b>	<b>44%</b>	<b>42%</b>

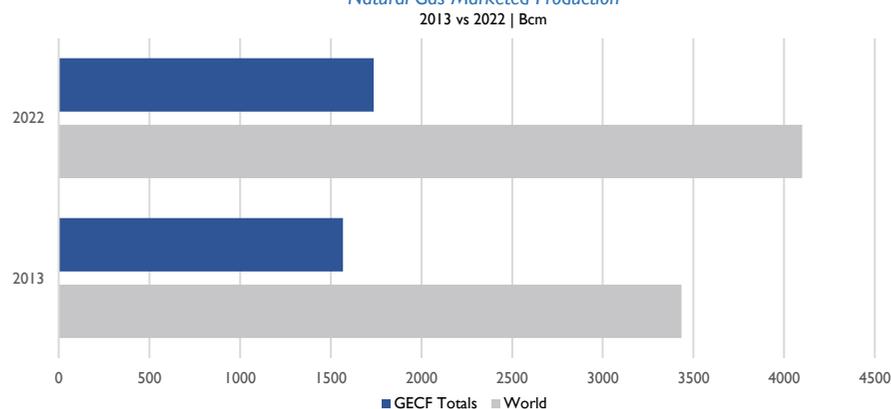
Table 3.2.4. Natural Gas Marketed Production of Current GEFC Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	82.43	83.30	84.58	94.95	96.60	97.47	89.98	84.60	105.04	101.44
Bolivia	20.49	21.65	21.49	20.61	20.03	18.70	16.46	15.81	16.44	15.09
Egypt	52.49	48.07	44.32	42.10	50.71	60.84	67.47	60.74	70.44	66.80
Equatorial Guinea	8.41	8.17	7.48	7.87	8.30	7.45	6.70	6.05	7.04	8.10
Iran	171.57	188.02	202.97	211.14	217.80	233.06	241.73	249.63	256.88	262.02
Libya	16.99	16.59	15.15	18.72	18.97	21.29	26.83	20.93	13.01	12.57
Nigeria	38.41	43.84	45.90	41.01	45.79	46.97	47.70	47.94	45.68	42.10
Qatar	201.78	201.13	201.27	201.37	201.35	205.17	204.43	205.72	208.74	210.49
Russia	626.29	607.08	608.43	614.56	635.78	667.66	644.09	637.16	701.55	647.33
Trinidad and Tobago	39.51	38.99	36.94	32.18	32.78	34.92	35.37	30.16	25.50	27.52
United Arab Emirates	54.60	54.24	60.18	61.86	54.09	47.62	55.10	55.06	54.48	55.57
Venezuela	20.95	21.62	25.95	28.84	28.29	24.50	20.27	19.40	21.57	22.31
<b>Observers</b>										
Angola	0.93	0.73	0.77	1.71	5.80	6.38	6.81	7.45	5.95	5.39
Azerbaijan	17.44	18.34	18.74	18.28	17.72	18.71	22.88	24.72	30.87	33.23
Iraq	7.44	7.93	7.69	10.42	10.65	11.13	11.54	7.37	9.59	9.86
Malaysia	64.91	65.41	63.14	64.42	71.35	66.73	68.46	63.42	67.54	71.77
Mozambique	5.28	5.60	5.70	5.80	5.80	5.60	5.50	5.40	5.37	5.35
Norway	109.98	111.38	120.74	120.42	127.73	126.38	119.05	116.20	118.29	125.39
Peru	12.22	12.97	12.59	14.02	12.97	12.75	13.47	12.08	11.81	13.66

Graph 3.2.3. GEFC and Rest of the World Natural Gas Marketed Production



Graph 3.2.4. GEFC Countries vs Rest of the World Natural Gas Marketed Production



### 3.3 Natural Gas Exports

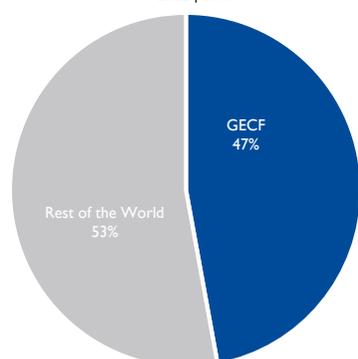
Table 3.3.1. Historical Natural Gas Pipeline Exports of GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>World</b>	<b>715.29</b>	<b>683.30</b>	<b>706.96</b>	<b>753.71</b>	<b>811.36</b>	<b>767.87</b>	<b>823.08</b>	<b>745.74</b>	<b>784.38</b>	<b>780.51</b>
<b>GECF Totals</b>	<b>444.56</b>	<b>407.61</b>	<b>417.76</b>	<b>444.00</b>	<b>468.42</b>	<b>430.64</b>	<b>405.96</b>	<b>403.37</b>	<b>425.47</b>	<b>367.78</b>
<b>Members</b>	<b>281.94</b>	<b>254.35</b>	<b>266.03</b>	<b>287.58</b>	<b>306.06</b>	<b>316.36</b>	<b>298.05</b>	<b>280.33</b>	<b>290.61</b>	<b>220.83</b>
<b>Observers</b>	<b>162.62</b>	<b>153.26</b>	<b>151.74</b>	<b>156.42</b>	<b>162.36</b>	<b>114.28</b>	<b>107.91</b>	<b>123.04</b>	<b>134.86</b>	<b>146.95</b>
<b>GECF Share</b>	<b>62%</b>	<b>60%</b>	<b>59%</b>	<b>59%</b>	<b>58%</b>	<b>56%</b>	<b>49%</b>	<b>54%</b>	<b>54%</b>	<b>47%</b>

Table 3.3.2. Natural Gas Pipeline Exports of Current GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
<b>Algeria</b>	32.23	27.08	27.04	38.44	37.59	37.95	26.31	25.24	38.97	35.49
<b>Bolivia</b>	17.12	17.80	17.52	16.08	15.39	13.84	11.75	11.81	11.98	10.31
<b>Egypt</b>	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.57	0.73
<b>Equatorial Guinea</b>	-	-	-	-	-	-	-	-	-	-
<b>Iran</b>	9.54	9.76	8.60	8.65	12.89	13.24	18.35	15.52	17.60	18.04
<b>Libya</b>	5.55	6.42	7.03	5.60	5.04	5.63	7.11	4.87	3.07	2.48
<b>Nigeria</b>	0.60	0.60	0.60	0.12	0.39	0.72	0.79	0.89	0.84	0.79
<b>Qatar</b>	19.90	20.09	19.75	20.00	21.96	22.36	22.45	22.62	21.68	24.04
<b>Russia</b>	196.40	172.60	185.50	198.70	212.80	222.62	211.29	199.20	195.90	128.94
<b>Trinidad and Tobago</b>	-	-	-	-	-	-	-	-	-	-
<b>United Arab Emirates</b>	-	-	-	-	-	-	-	-	-	-
<b>Venezuela</b>	-	-	-	-	-	-	-	-	-	-
<b>Observers</b>										
<b>Angola</b>	-	-	-	-	-	-	-	-	-	-
<b>Azerbaijan</b>	7.31	8.07	8.14	8.04	8.86	9.91	11.83	13.54	19.38	22.67
<b>Iraq</b>	-	-	-	-	-	-	-	-	-	-
<b>Malaysia</b>	2.30	1.84	1.56	1.70	1.50	1.10	1.47	1.70	2.21	2.90
<b>Mozambique</b>	3.69	3.78	3.79	3.96	4.08	4.12	3.95	3.89	4.29	4.25
<b>Norway</b>	103.08	102.23	108.38	107.87	116.68	114.28	107.91	107.81	113.28	117.14
<b>Peru</b>	-	-	-	-	-	-	-	-	-	-

Graph 3.3.1. GECF and Rest of the World Natural Gas Pipeline Exports 2022 | Bcm



Graph 3.3.2. GECF Countries vs Rest of the World Natural Gas Pipeline Exports 2013 vs 2022 | Bcm

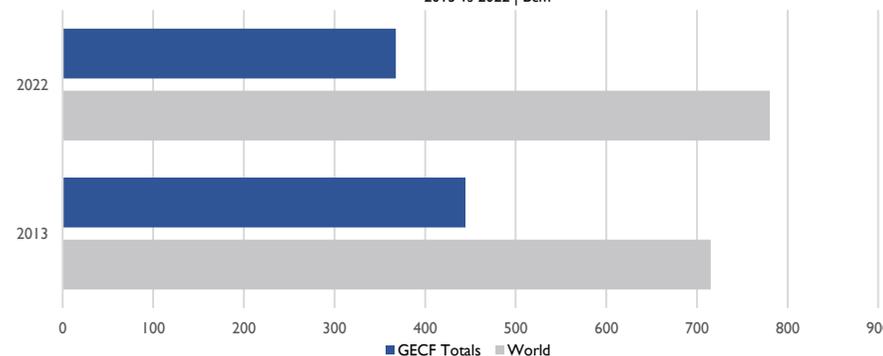


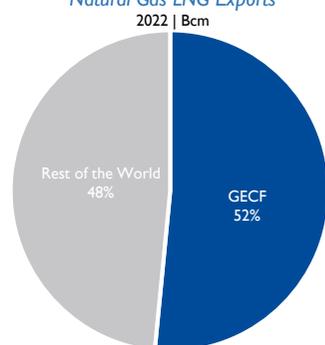
Table 3.3.3. Historical LNG Exports of GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>World</b>	<b>326.55</b>	<b>328.67</b>	<b>332.03</b>	<b>355.75</b>	<b>395.61</b>	<b>429.57</b>	<b>480.51</b>	<b>488.49</b>	<b>509.66</b>	<b>528.01</b>
<b>GECF Totals</b>	<b>213.53</b>	<b>217.31</b>	<b>213.91</b>	<b>214.94</b>	<b>221.28</b>	<b>236.09</b>	<b>260.45</b>	<b>280.80</b>	<b>265.33</b>	<b>272.21</b>
Members	209.98	206.63	192.41	191.99	198.59	205.76	229.77	210.93	214.87	223.01
Observers	3.55	10.68	21.50	22.95	22.69	30.33	30.68	69.86	50.45	49.20
<b>GECF Share</b>	<b>65%</b>	<b>66%</b>	<b>64%</b>	<b>60%</b>	<b>56%</b>	<b>55%</b>	<b>54%</b>	<b>57%</b>	<b>52%</b>	<b>52%</b>

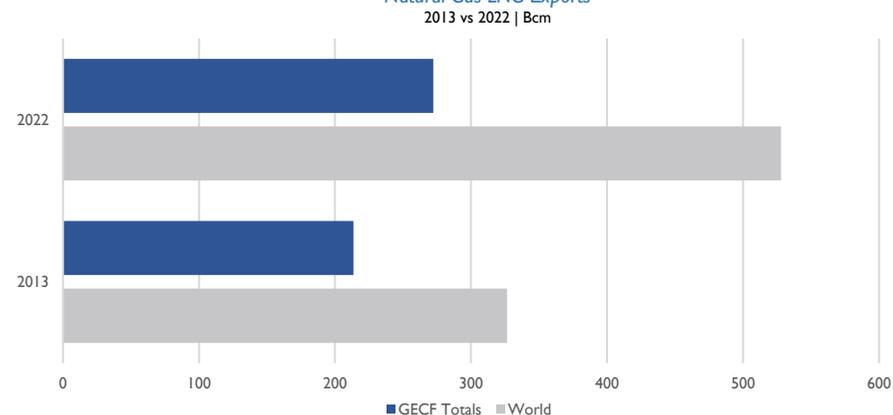
Table 3.3.4. LNG Exports of Current GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
Algeria	15.16	17.11	16.47	15.53	16.41	13.47	16.47	14.22	16.00	13.65
Bolivia	-	-	-	-	-	-	-	-	-	-
Egypt	4.02	0.36	0.00	0.99	1.33	2.45	5.89	2.63	9.96	11.31
Equatorial Guinea	5.77	5.87	5.30	5.31	5.88	5.24	4.45	4.03	4.69	5.74
Iran	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	24.54	26.78	26.70	25.02	34.33	31.11	32.02	31.04	27.72	24.80
Qatar	104.87	104.83	104.53	106.52	104.23	102.41	104.89	104.84	106.27	108.37
Russia	16.20	12.63	13.18	14.91	15.03	25.48	39.90	40.25	39.65	40.97
Trinidad and Tobago	19.00	18.85	16.90	14.27	13.05	16.67	16.90	13.92	8.94	10.59
United Arab Emirates	9.14	9.93	9.33	9.44	8.34	8.94	9.26	8.74	8.22	7.58
Venezuela	-	-	-	-	-	-	-	-	-	-
<b>Observers</b>										
Angola	0.52	0.43	0.00	0.91	4.96	5.31	5.72	6.27	4.74	4.17
Azerbaijan	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Malaysia	33.36	33.19	32.94	32.47	35.26	32.55	34.09	32.51	33.54	37.45
Mozambique	-	-	-	-	-	-	-	-	-	0.05
Norway	3.34	4.85	5.61	5.97	5.27	6.90	6.31	4.21	0.16	3.27
Peru	5.70	5.30	4.94	5.47	5.43	4.84	5.22	4.85	3.80	4.25

Graph 3.3.3. GECF and Rest of the World Natural Gas LNG Exports



Graph 3.3.4. GECF Countries vs Rest of the World Natural Gas LNG Exports



### 3.4 Natural Gas Domestic Consumption

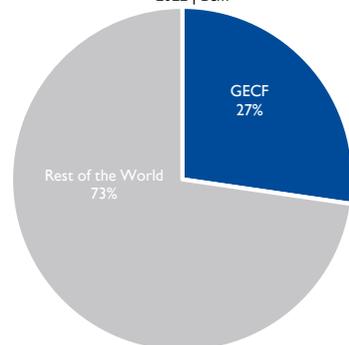
Table 3.4.1. Historical Natural Gas Domestic Consumption of GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>World</b>	<b>3,432.70</b>	<b>3,437.39</b>	<b>3,505.59</b>	<b>3,588.83</b>	<b>3,690.68</b>	<b>3,831.10</b>	<b>3,938.18</b>	<b>3,881.30</b>	<b>4,044.37</b>	<b>4,018.64</b>
<b>GECF Totals</b>	<b>958.61</b>	<b>977.83</b>	<b>993.55</b>	<b>1,002.32</b>	<b>1,043.02</b>	<b>1,048.18</b>	<b>1,063.06</b>	<b>1,016.33</b>	<b>1,072.23</b>	<b>1,096.21</b>
<b>Members</b>	<b>907.36</b>	<b>923.37</b>	<b>916.37</b>	<b>920.92</b>	<b>956.13</b>	<b>997.31</b>	<b>1,008.01</b>	<b>845.90</b>	<b>924.46</b>	<b>1,013.34</b>
<b>Observers</b>	<b>51.26</b>	<b>54.47</b>	<b>77.18</b>	<b>81.40</b>	<b>86.89</b>	<b>50.88</b>	<b>55.05</b>	<b>170.44</b>	<b>147.78</b>	<b>82.86</b>
<b>GECF Share</b>	<b>28%</b>	<b>28%</b>	<b>28%</b>	<b>28%</b>	<b>28%</b>	<b>27%</b>	<b>27%</b>	<b>26%</b>	<b>27%</b>	<b>27%</b>

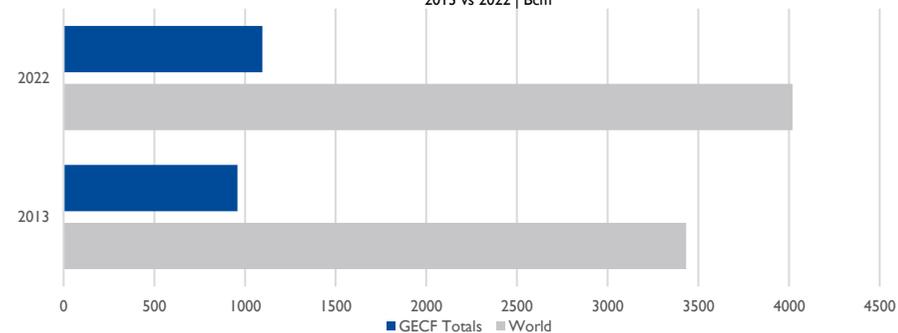
Table 3.4.2. Natural Gas Domestic Consumption of Current GECF Countries (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Members</b>										
<b>Algeria</b>	32.53	37.21	40.30	40.45	41.82	45.14	46.40	45.03	49.56	51.82
<b>Bolivia</b>	3.38	3.71	3.94	4.43	4.38	4.76	4.32	3.40	3.95	4.18
<b>Egypt</b>	51.25	48.04	47.80	51.28	58.16	61.29	60.59	60.17	63.47	61.00
<b>Equatorial Guinea</b>	1.47	1.44	1.29	1.59	1.58	1.52	1.49	1.88	2.21	2.31
<b>Iran</b>	171.57	188.02	202.97	211.15	217.76	227.82	231.22	233.00	241.25	244.89
<b>Libya</b>	10.16	8.82	8.73	7.99	8.16	8.32	8.40	7.70	9.94	10.09
<b>Nigeria</b>	7.70	7.73	11.11	8.88	11.07	12.17	12.10	13.19	13.86	12.97
<b>Qatar</b>	38.27	40.52	40.95	38.70	38.02	40.92	41.53	40.49	38.76	42.00
<b>Russia</b>	466.00	465.00	445.00	444.00	463.00	489.00	501.00	412.97	472.69	486.60
<b>Trinidad and Tobago</b>	16.99	16.66	16.64	15.06	15.02	15.09	15.19	13.25	14.57	14.12
<b>United Arab Emirates</b>	66.90	65.90	72.73	71.78	71.60	70.04	68.23	70.76	69.45	69.49
<b>Venezuela</b>	19.91	19.80	24.91	25.62	25.57	21.24	17.55	14.83	14.20	13.86
<b>Observers</b>										
<b>Angola</b>	0.41	0.30	0.77	0.80	0.79	0.79	0.82	0.83	0.83	0.85
<b>Azerbaijan</b>	9.47	9.92	10.88	10.50	9.41	10.82	11.79	11.35	11.21	10.59
<b>Iraq</b>	6.44	6.80	6.90	8.44	10.14	13.35	17.51	18.78	19.32	20.48
<b>Malaysia</b>	32.81	35.18	31.76	32.29	33.30	34.40	36.97	33.21	34.62	36.12
<b>Mozambique</b>	1.56	1.80	1.90	1.81	1.72	1.48	1.55	1.50	1.07	1.15
<b>Norway</b>	3.56	4.29	4.53	4.61	4.72	4.58	4.71	4.21	4.34	4.27
<b>Peru</b>	6.53	7.67	7.65	8.52	7.48	7.91	8.26	7.14	8.01	9.41

Graph 3.4.1. GECF and Rest of the World Natural Gas Domestic Consumption 2022 | Bcm



Graph 3.4.2. GECF Countries vs Rest of the World Natural Gas Domestic Consumption 2013 vs 2022 | Bcm



### 3.5 Liquefaction Plants

Table 3.5.1. Liquefaction Plants of GECF Countries

Country	Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Members</b>							
<b>Algeria</b>	GLIZ	6	10.1	Operational	1978	Sonatrach	Sonatrach
	GLZZ	6	10.5	Operational	1981	Sonatrach	Sonatrach
	GLIK	1	6.0	Operational	2013	Sonatrach	Sonatrach
	GL3Z	1	5.8	Operational	2014	Sonatrach	Sonatrach
<b>Bolivia</b>	Rio Grande LNG	1	0.08	Operational	2016	YPFB	YPFB
<b>Egypt</b>	IDKU Egyptian LNG	2	7.2	Operational	2005	Shell, EGAS, EGBC, Petronas, ENGIE	OPCO
	Damietta	1	4.8	Operational	2005	EGAS, EGBC, Union Fenosa Gas	SEGAS
<b>Equatorial Guinea</b>	EG LNG	1	3.7	Operational	2007	Marathon, Sonagas, Mitsui, Marubeni	EG LNG
<b>Iran</b>	Iran FLNG	1	0.7	Cancelled	-	-	-
<b>Libya</b>	Marsa al Brega	1	3.2	Decommissioned	1960	Libya NOC	Sirte Oil Company
	NLNG 1 & 2	2	7.0	Operational	1999	Nigeria LNG	Nigeria LNG
<b>Nigeria</b>	NLNG 3	1	3.3	Operational	2002	Nigeria LNG	Nigeria LNG
	NLNG 4	1	4.1	Operational	2005	Nigeria LNG	Nigeria LNG
	NLNG 5	1	4.1	Operational	2006	Nigeria LNG	Nigeria LNG
	NLNG 6	1	4.1	Operational	2007	Nigeria LNG	Nigeria LNG
	NLNG 7	1	7.0	Under Construction	2026	Nigeria LNG	Nigeria LNG
	NLNG 8	1	-	Planned	-	Nigeria LNG	Nigeria LNG
	Yoho FLNG	1	1.2	Announced	2025	Yoho FLNG	Yoho FLNG
	<b>Qatar</b>	Qatargas 1	3	9.9	Operational	1996/1997/1998	Qatar Petroleum, Exxon Mobil, Total, Mitsui, Marubeni
Qatargas 2		2	15.6	Operational	2009	Qatar Petroleum, Exxon Mobil, Total	Qatargas
Qatargas 3		1	7.8	Operational	2010	Qatar Petroleum, ConocoPhillips, Mitsui	Qatargas
Qatargas 4		1	7.8	Operational	2011	Qatar Petroleum, Shell	Qatargas
Raslaffan 1		2	6.6	Operational	1999	Qatar Petroleum, ExxonMobil, Korea LNG, Itochu, LNG Japan Corp	Qatargas
Raslaffan 2		3	14.1	Operational	2004	Qatar Petroleum, ExxonMobil	Qatargas
Raslaffan 3		2	15.6	Operational	2010	Qatar Petroleum, ExxonMobil	Qatargas
North Field Expansion 1		4	33.0	Under Construction	2025	Qatar Petroleum	Construction Phase
North Field Expansion 2		2	16	Project	2027	Qatar Petroleum	Project Phase
Sakhalin II		2	9.6	Operational	2009	Sakhalin Energy	Sakhalin Energy
<b>Russia</b>	Yamal LNG	3	16.5	Operational	2017/2018	Novatek	Novatek
	Kriogas-Vysotsk LNG	2	0.7	Operational	2019	Novatek	Novatek
	Yamal LNG	1	0.9	Operational	2021	Novatek	Novatek
	Portovaya LNG	1	1.5	Operational	2022	Gazprom	Gazprom
	Arctic LNG	2	13.2	Suspended	-	-	-
	Arctic LNG	1	6.6	Under Construction	2023	Novatek	Novatek
	Baltic LNG	2	13.0	Announced	2024/2025	Gazprom	Gazprom
	Sakhalin II	1	5.4	Planned	2024	Sakhalin Energy	Sakhalin Energy
	Obskiy LNG	2	5.0	Announced	-	-	-
	Trinidad and Tobago	Atlantic LNG	4	14.8	Operational	1999/2002/2003/2005	Atlantic LNG
<b>United Arab Emirates</b>	Das Island	3	5.6	Operational	1977/1977/1994	ADNOC, Mitsui, BP, Total	ADGAS
<b>Observers</b>							
<b>Angola</b>	Angola LNG	1	5.2	Operational	2013	Angola LNG	Angola LNG
<b>Malaysia</b>	Malaysia LNG	9	29.3	Operational	1983/1995/2003/2016	Malaysia LNG	Malaysia LNG
	PFLNG1	1	1.2	Operational	2016	Petronas	Petronas
	PFLNG2	1	1.5	Operational	2021	Petronas	Petronas
	PFLNG3	1	2.0	Planned	-	Petronas	Petronas
<b>Mozambique</b>	Coral South FLNG	1	3.4	Under Construction	End 2022	Coral South FLNG	ENI Offshore Mozambique
	Mozambique LNG	9	50.0	Announced	-	Mozambique LNG	Mozambique LNG
	Rovuma LNG	2	15.2	Announced	2025	Rovuma LNG	Rovuma LNG
<b>Norway</b>	Snohvit LNG	1	4.3	Operational	2007	Snohvit LNG Consortium	Snohvit LNG Consortium
	Stavanger	1	0.33	Operational	2010	Skangas	Skangas
<b>Peru</b>	Peru LNG Plant	1	4.5	Operational	2010	Peru LNG Consortium	Hunt Oil Company

## 3.6 Natural Gas Pipelines

Table 3.6.1. Natural Gas (Import/Export) Pipelines of GECF Member Countries (in Bold Text)

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>Enrico Mattei (TransMediterranean)</b>	<b>Algeria</b>	Italy	Tunisia	Sonatrach, Sotugat, ENI	Sonatrach, TMPC, TTPC	Operational	34.0	Export	1982	2,475	47/20/42/48
<b>Medgaz</b>	<b>Algeria</b>	Spain	Med Sea	Sonatrach, Naturgy	Medgaz	Operational	10.5	Export	2011	210	48/24
<b>Trans-Saharan Gas</b>	<b>Algeria</b>	<b>Nigeria</b>	Niger	Sonatrach, NNPC	Sonatrach, NNPC	Proposed	30.0	Export	NA	4,128	48/56
<b>GASBOL</b>	<b>Bolivia</b>	Brazil	-	Gas TransBoliviano	Gas TransBoliviano	Operational	11.5	Export	1999	557	32
<b>GIJA (Juana Azurduy)</b>	<b>Bolivia</b>	Argentina	-	YPFB Transporte	YPFB Transporte	Operational	10.2	Export	2011	13	32
<b>GOB</b>	<b>Bolivia</b>	Brazil	-	GasOriente Boliviano	GasOriente Boliviano	Operational	1.5	Export	2002	362	18
<b>Arab Gas Pipeline</b>	<b>Egypt</b>	Jordan, Syria, Lebanon	-	EGAS, ENPPI, GASCOPEPROJET SPC	Egyptian FAJR	Operational	10.0	Export	2003	1,200	36
<b>EMG</b>	Israel	<b>Egypt</b>	-	EMG	Israel Natural Gas Lines (INGL)	Operational	7.0-9.0	Import	2020	90	26
<b>Tabriz-Ankara</b>	<b>Iran</b>	Turkey	-	NIOC, Botas	NIOC, Botas	Operational	14.0	Export	2002	3,250	40
<b>Jolfa-Nakhchivan</b>	<b>Iran</b>	Azerbaijan	-	NIGC, SOCAR	NIGC, SOCAR	Operational	10.0	Swap	2005	627	40
<b>Tabriz-Sardanian</b>	<b>Iran</b>	Armenia	-	NIOC, Armenia Gazprom	NIOC, Armenia Gazprom	Operational	2.3	Export	2006	140	30
<b>Asaluye-Baghdad</b>	<b>Iran</b>	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	12.8	Export	2017	230	NA
<b>Dauletabad-Khangiran</b>	Turkmenistan	<b>Iran</b>	-	Turkmengaz	Turkmengaz	Operational	12.0	Import	2007	182	48
<b>Asaluye-Basrah</b>	<b>Iran</b>	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	NA	Export	NA	NA	NA
<b>Asaluye-Nawabshah</b>	<b>Iran</b>	Pakistan	-	NIOC, SNGPL, SSGC, Gazprom JSC	NIOC, SNGPL, SSGC, Gazprom JSC	Proposed	40.0	Export	NA	2,775	56
<b>Asaluye-Sohar</b>	<b>Iran</b>	Oman	-	NIOC, OGC	NIOC, OGC	Planned	9.9	Export	2020	NA	NA
<b>Green Stream</b>	<b>Libya</b>	Sicily	-	Green Stream	Green Stream	Operational	11.0	Export	2004	520	32
<b>West African Gas Pipeline</b>	<b>Nigeria</b>	Ghana	Benin-Togo	WAGP	Chevron	Operational	8.3	Export	2006	678	20
<b>Dolphin</b>	<b>Qatar</b>	<b>United Arab Emirates, Oman</b>	-	Dolphin Energy	Dolphin Energy	Operational	33.1	Export	2007	364	48
<b>Urengoy-Pomary-Uzhgorod</b>	<b>Russia</b>	Europe	Ukraine	Gazprom	Gazprom	Operational	32	Export	1983	4,451	56
<b>Blue Stream</b>	<b>Russia</b>	Turkey	-	Gazprom, Blue Stream Pipeline Company BV	Gazprom, Blue Stream Pipeline Company BV	Operational	16.0	Export	2003	1,213	55/47
<b>Yamal Europe</b>	<b>Russia</b>	Europe (Poland Germany)	Belarus	Gazprom, EuRoPol Gaz, WINGAS	Gazprom	Operational	32.9	Export	2006	2,000	56
<b>Nord Stream</b>	<b>Russia</b>	Germany	NA	Nord Stream AG JV	Nord Stream AG JV	Operational	55.0	Export	2011	1,224	48
<b>Minsk-Vilnius-Kaunas-Kaliningrad</b>	<b>Russia</b>	<b>Russia</b>	Belarus, Lithuania	Gazprom	Gazprom	Operational	2.5	Export	2011	155	20
<b>Power of Siberia</b>	<b>Russia</b>	China	-	Gazprom	Gazprom	Operational	38.0	Export	2019	3,000	56
<b>TurkStream</b>	<b>Russia</b>	Turkey	-	Gazprom	Gazprom	Operational	31.5	Export	2020	3000	32
<b>Nord Stream 2</b>	<b>Russia</b>	Germany	-	Nord Stream 2 AG	Nord Stream 2 AG	Completed	55.0	Export	-	1,200	48
<b>Antonio Ricaurte (Trans Caribbean)</b>	Colombia	<b>Venezuela</b>	-	PDVSA Gas	PDVSA Gas	Operational	2.7	Import Export	2007	225	26

Table 3.6.2. Natural Gas (Import/Export) Pipelines of GECF Observer Countries (in Bold Text)

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>South Gas Corridor</b>	<b>Azerbaijan</b>	Georgia, Turkey, Greece, Italy	-	BP, TPAO, SOCAR, Petronas, Lukoil, Naftiran, Intertrade	BP	Operational	16.0	Export	2006	692	42
<b>Mozdok–Makhachkala–Kazi Magomed</b>	Russia	<b>Azerbaijan</b>	-	SOCAR, GAZPROM	SOCAR, GAZPROM	Operational	13.0	-	2010	680	48
<b>Trans-Caspian</b>	Turkmenistan	<b>Azerbaijan</b>	-	NA	NA	Proposed	30.0	Export	NA	300	NA
<b>Segamat</b>	<b>Malaysia</b>	Singapore	-	Petronas Gas	Petronas Gas	Operational	5.7	Export	1991	230	36
<b>Yetagun</b>	<b>Malaysia</b>	Thailand	-	Petronas Carigali	Petronas Carigali	Operational	5.2	Export	2007	270	24
<b>West Natuna Transportation System</b>	Indonesia	<b>Malaysia</b>	-	PSCs	PSCs	Operational	2.6	Import	2001	96	18
<b>Mozambique South Africa Gas Pipeline</b>	<b>Mozambique</b>	South Africa	-	Sasol Gas Holding, South African Gas Development Limited Company Companhia, Mocambicana de Gasoduto	Sasol, iGas, CMG	Operational	5.6	Export	2004	865	-
<b>African Renaissance Gas Pipeline</b>	<b>Mozambique</b>	South Africa	-			Proposed	18.0	Export	2025/2026	2600	-
<b>Norpipe</b>	<b>Norway</b>	Germany	-	Gassco AS	Gassco AS	Operational	11.7	Export	1977	440	36
<b>Vesterled</b>	<b>Norway</b>	UK	-	Gassco AS	Gassco AS	Operational	14.2	Export	1978	360	32
<b>Zeepipe I</b>	<b>Norway</b>	Belgium	-	Gassco AS	Gassco AS	Operational	15.3	Export	1993	808	40
<b>Europipe I</b>	<b>Norway</b>	Germany	-	Gassco AS	Gassco AS	Operational	16.8	Export	1995	620	40
<b>Franpipe</b>	<b>Norway</b>	France	-	Gassco AS	Gassco AS	Operational	20.1	Export	1998	840	42
<b>Europipe II</b>	<b>Norway</b>	Germany	-	Gassco AS	Gassco AS	Operational	26.0	Export	1999	660	42
<b>Langed</b>	<b>Norway</b>	UK	-	Gassco AS	Gassco AS	Operational	26.3	Export	2006	536	44
<b>Baltic Pipeline</b>	<b>Norway</b>	Poland	Denmark	Energinet, Gaz-System	Energinet, Gaz-System	Completed	10.0	Export	End 2022	613	42

### 3.7 LNG Carrier Fleet

Table 3.7.1. LNG Carrier Fleet of Member GECF Countries

Country	Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
<b>Algeria</b>	Lalla Ftama N'soumer	Sonatrach Group	2004	145.45
	Berge Arzew	Sonatrach Group	2004	138.00
	Global Energy	Sonatrach Group	2006	74.13
	Cheikh El-Mokrani	Sonatrach Group	2007	75.50
	Cheikh Bouamama	Sonatrach Group	2008	75.50
	Tessala	Sonatrach Group	2016	171.8
	Ourgata	Sonatrach Group	2017	171.8
<b>Nigeria</b>	LNG Edo	Bonny Gas Transport	1980	126.50
	LNG Rivers	Bonny Gas Transport	2002	137.20
	LNG Sokoto	Bonny Gas Transport	2002	137.20
	LNG Bayelsa	Bonny Gas Transport	2003	137.50
	LNG Akwa Ibom	Bonny Gas Transport	2004	141.00
	LNG River Orashi	BW Gas	2004	145.91
	LNG Adamawa	Bonny Gas Transport	2005	141.00
	LNG Cross River	Bonny Gas Transport	2005	141.00
	LNG Enugu	BW Gas	2005	145.00
	LNG Oyo	BW Gas	2005	140.50
	LNG River Niger	Bonny Gas Transport	2006	141.00
	LNG Benue	BW Gas	2006	145.70
	LNG Lokoja	BW Gas	2006	148.30
	LNG Borno	NYK Line	2007	149.60

Table 3.7.I. LNG Carrier Fleet of GECF Member Countries (Continuation)

Country	Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Nigeria	LNG Ogun	NYK Line	2007	149.60
	LNG Kano	BW Gas	2007	148.30
	LNG Ondo	BW Gas	2007	148.30
	LNG Imo	BW Gas	2008	148.30
	LNG Bonny II	Bonny Gas Transport	2015	133.00
	LNG Finima II	Bonny Gas Transport	2015	133.00
	LNG Lagos II	Bonny Gas Transport	2015	122.00
	LNG Port-Harcourt II	Bonny Gas Transport	2015	122.00
	LNG Abuja II	Bonny Gas Transport	2016	126.50
Qatar	Al Ghashamiya	Nakilat	2009	217.59
	Sheehaniya	Nakilat	2009	210.20
	Mesaimmeer	Nakilat	2009	216.31
	Onaiza	Nakilat	2009	210.15
	Al Gattara	Nakilat	2007	216.20
	Al Gharrafa	Nakilat	2008	216.20
	Al Hamla	Nakilat	2008	216.20
	Tembek	Nakilat	2007	216.20
	Al Dafna	Nakilat	2009	266.37
	Al Ghuwairiya	Nakilat	2008	263.30
	Al Mafyar	Nakilat	2009	266.37
	Mekaines	Nakilat	2009	266.48
	Mozah	Nakilat	2008	266.25
	Umm Slal	Nakilat	2008	265.98
	Al Kharaitiyat	Nakilat	2009	216.30
	Al Rekayyat	Nakilat	2009	216.29
	Al Sadd	Nakilat	2009	210.20
	Al Mayeda	Nakilat	2009	266.00
	Al Samriya	Nakilat	2009	263.30
	Bu Samra	Nakilat	2008	266.00
	Lijmiliya	Nakilat	2009	263.30
	Al Bahiya	Nakilat	2009	210.10
	Al Karaana	Nakilat	2009	210.10
	Al Khattiya	Nakilat	2009	210.15
	Al Nuaman	Nakilat	2009	210.10
	Aamira	Nakilat	2010	266.00
	Rasheeda	Nakilat	2010	266.00
	Shagra	Nakilat	2009	266.28
	Zarga	Nakilat	2010	266.00
	Al Oraiq	Nakilat/"K" Line	2008	210.10
	Umm Al Amad	Nakilat/"K" Line	2008	210.10
	Al Jassasiya	Nakilat/Maran Gas	2007	145.70
	Maran Gas Achilles	Nakilat/Maran Gas	2016	174.00
	Maran Gas Alexandria	Nakilat/Maran Gas	2015	161.87
	Maran Gas Apollonia	Nakilat/Maran Gas	2014	161.87
	Maran Gas Asciepius	Nakilat/Maran Gas	2008	145.82
	Maran Gas Coronis	Nakilat/Maran Gas	2012	145.70
	Maran Gas Delphi	Nakilat/Maran Gas	2014	159.80
	Maran Gas Efessos	Nakilat/Maran Gas	2014	159.80
	Maran Gas Lindos	Nakilat/Maran Gas	2015	161.87

(continue in next page)

Table 3.7.1. LNG Carrier Fleet of GECF Member Countries (Continuation)

Country	Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Qatar	Maran Gas Posidonia	Nakilat/Maran Gas	2014	161.87
	Maran Gas Sparta	Nakilat/Maran Gas	2015	159.80
	Simaisma	Nakilat/Maran Gas	2006	145.89
	Umm Bab	Nakilat/Maran Gas	2005	145.00
	Woodside Goode	Nakilat/Maran Gas	2013	159.80
	Woodside Rogers	Nakilat/Maran Gas	2013	159.80
	Al Aamriya	Nakilat/MOL	2008	210.17
	Fraiha	Nakilat/MOL	2008	210.10
	Murwab	Nakilat/MOL	2008	210.10
	Al Sahla	Nakilat/NYK	2008	216.20
	Al Thumama	Nakilat/NYK	2008	216.20
	Al Utouriya	Nakilat/NYK	2008	215.00
	Ejnan	Nakilat/NYK	2007	145.00
	Al Ghariya	Nakilat/Pronav	2008	210.15
	Al Ruwais	Nakilat/Pronav	2007	210.15
	Al Safliya	Nakilat/Pronav	2007	210.15
	Duhail	Nakilat/Pronav	2008	210.15
	Aseem	Nakilat/SCI	2009	155.00
	Al Marrouna	Nakilat/Teekay	2006	149.54
	Al Areesh	Nakilat/Teekay	2007	148.79
	Al Daayen	Nakilat/Teekay	2008	148.85
	Al Huwaila	Nakilat/Teekay	2008	217.00
	Al Kharsaah	Nakilat/Teekay	2008	217.00
	Al Khuwair	Nakilat/Teekay	2006	217.00
Al Shamal	Nakilat/Teekay	2008	217.00	
Global Energy	Nakilat/Maran Gas	2020	173.40	
Global Star	Nakilat/Maran Gas	2021	173.40	
Hull no. 2502	Nakilat/Maran Gas	-	174.00	
Hull no.2503	Nakilat/Maran Gas	-	174.00	
Russia	Lena River	Gazprom	2013	154.88
	Yenisei River	Gazprom	2013	154.88
	Velikiy Novgorod	Gazprom	2014	170.20
	Pskov	Gazprom	2014	170.20
	SCF Mitre	Sovcomflot	2015	170.00
	SCF Melampus	Sovcomflot	2015	170.20
	Christophe de Margerie	Sovcomflot	2016	172.60
	Marshal Vasilevskiy	Gazpromflot	2017	174.10
United Arab Emirates	AL Khaznah	National Gas Shipping Co. (ADNOC)	1994	137.54
	Shahamah	National Gas Shipping Co. (ADNOC)	1994	137.56
	Ghasha	National Gas Shipping Co. (ADNOC)	1995	137.51
	Ish	National Gas Shipping Co. (ADNOC)	1995	137.57
	Mubaraz	National Gas Shipping Co. (ADNOC)	1996	136.98
	Mraweh	National Gas Shipping Co. (ADNOC)	1996	137.04
	AL Hamra	National Gas Shipping Co. (ADNOC)	1997	137.08
	Umm AL Ashtan	National Gas Shipping Co. (ADNOC)	1997	137.11

(continue in next page)

Table 3.7.2. LNG Carrier Fleet of GECF Observer Countries

Country	Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Angola	Cubal	NYK Line/Mitsui & Co/Teekay LNG Partners	2012	160.28
	Lobito	Mitsui & Co/NYK Line/Teekay LNG Partners	2011	160.28
	Malanje	Mitsui & Co/NYK Line/Teekay LNG Partners	2011	160.28
	Sonangol Benguela	Sonangol	2007	160.50
	Sonangol Etosha	Sonangol	2007	160.50
	Sonangol Sambizanga	Sonangol	2007	160.50
	Soyo	Mitsui & Co/NYK Line/Teekay LNG Partners	2011	160.28
Malaysia	Aman Sendai	MISC	1997	18.80
	LNG Portovenere	MISC	1997	60.60
	LNG Leric	MISC	1998	60.60
	Puteri Intan	MISC	1994	130.00
	Puteri Delima	MISC	1995	130.00
	Puteri Nilam	MISC	1995	130.00
	Puteri Zamrud	MISC	1996	130.00
	Puteri Firus	MISC	1997	130.00
	Puteri Delima Satu	MISC	2002	137.10
	Puteri Intan Satu	MISC	2002	137.10
	Puteri Nilam Satu	MISC	2003	137.10
	Puteri Firus Satu	MISC	2004	137.10
	Puteri Zamrud Satu	MISC	2004	137.10
	Puteri Mutiara Satu	MISC	2005	137.10
	Seri Alam	MISC	2005	145.00
	Seri Amanah	MISC	2006	145.00
	Seri Angkasa	MISC	2006	145.00
	Seri Anggun	MISC	2006	145.00
	Seri Ayu	MISC	2007	145.00
	Seri Bakti	MISC	2007	152.60
	Seri Begawan	MISC	2007	152.30
	Seri Bijaksana	MISC	2008	152.30
	Seri Balhaf	MISC	2009	154.50
	Seri Balqis	MISC	2009	154.50
	Seri Camellia	MISC	2016	150.00
	Seri Cempaka	MISC	2017	150.20
	Seri Cenderawasih	MISC	2017	150.00
	Seri Camar	MISC	2018	150.20
	Seri Cemara	MISC	2018	150.20
	Hull No.8030	MISC (JV)	2021	142.00
	Hull No.8031	MISC (JV)	2021	142.00
	Hull No.2364	MISC	2023	148.10
	Hull No.2365	MISC	2023	148.10

Proven Natural Gas Reserves



Natural Gas Gross Production



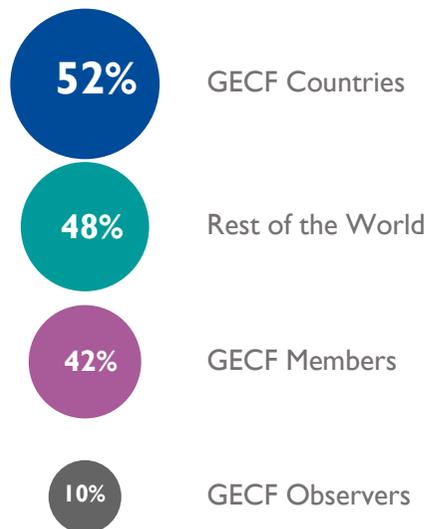
Natural Gas Marketed Production



Natural Gas Pipeline Exports



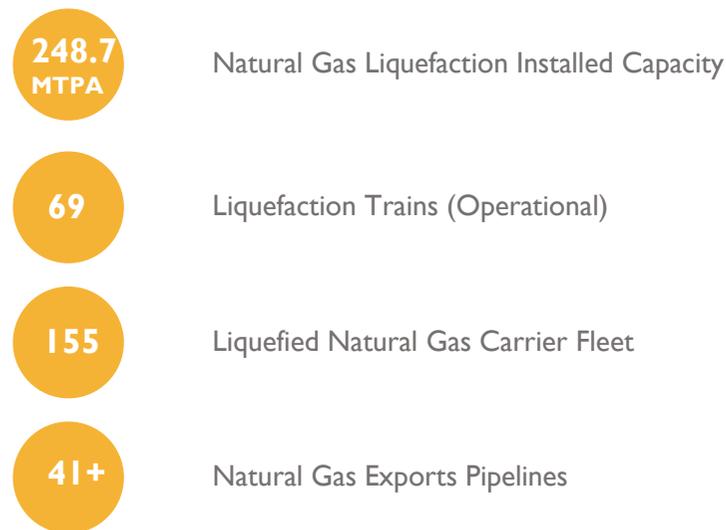
LNG Exports



Domestic Consumption



GECF Countries Plants and Transport





**2023 GECF Members**

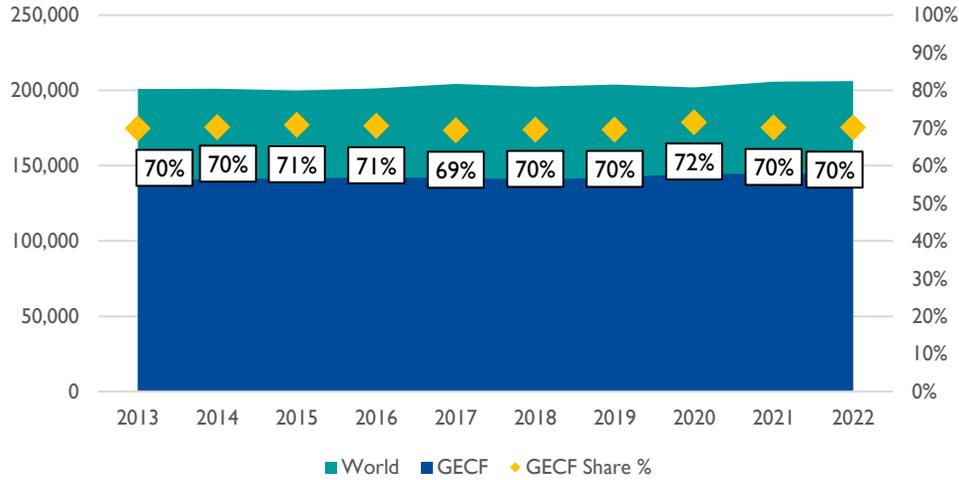
- 1 People's Democratic Republic of Algeria
- 2 Plurinational State of Bolivia
- 3 Arab Republic of Egypt
- 4 Republic of Equatorial Guinea
- 5 Islamic Republic of Iran
- 6 State of Libya
- 7 Federal Republic of Nigeria
- 8 State of Qatar
- 9 Russian Federation
- 10 Republic of Trinidad and Tobago
- 11 United Arab Emirates
- 12 Bolivarian Republic of Venezuela

**2023 GECF Observers**

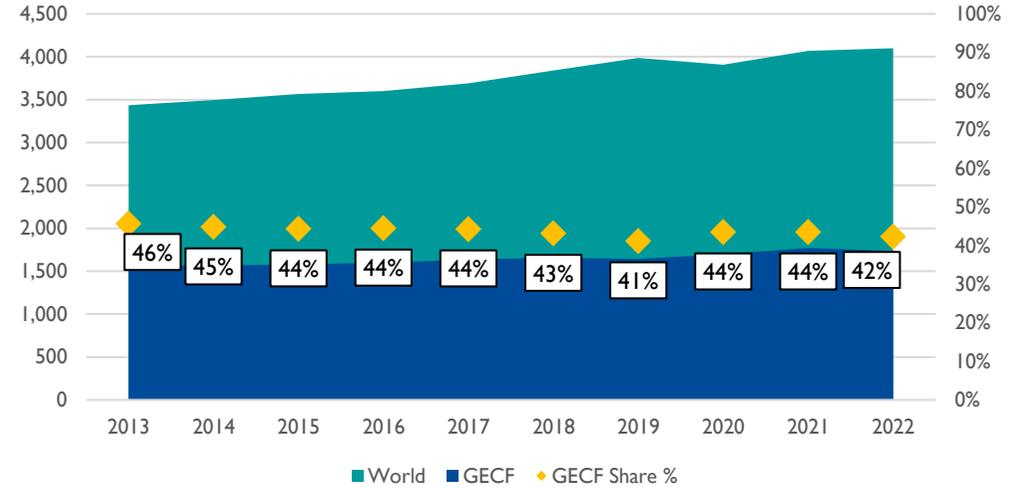
- 13 Republic of Angola
- 14 Republic of Azerbaijan
- 15 Republic of Iraq
- 16 Malaysia
- 17 Republic of Mozambique
- 18 Kingdom of Norway
- 19 Republic of Peru

### 3.8 Historical GECF Share in the World

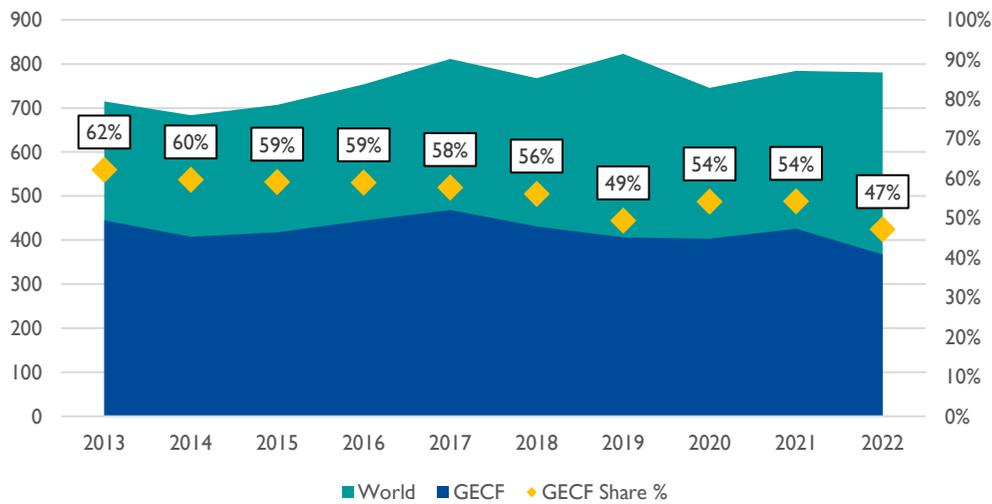
Graph 3.8.1 GECF Natural Gas Proven Reserves (Total)  
2013 - 2022 | Bcm



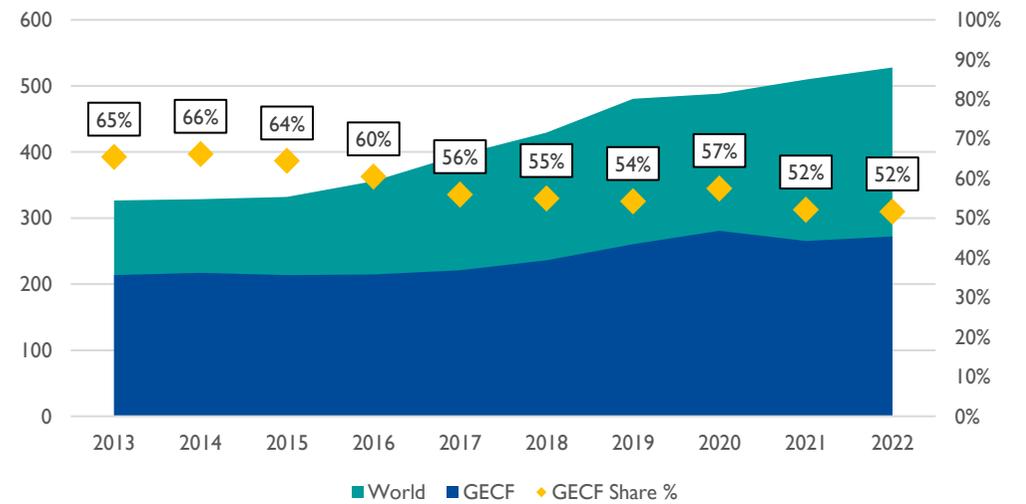
Graph 3.8.2 GECF Natural Gas Marketed Production (Total)  
2013 - 2022 | Bcm



Graph 3.8.3 GECF Natural Gas Pipeline Exports (Total)  
2013 - 2022 | Bcm



Graph 3.8.4 GECF LNG Exports (Total)  
2013 - 2022 | Bcm









## Section 4

# GECF Member Countries



People's Democratic Republic of  
**ALGERIA**

AREA: **2,381,740 km<sup>2</sup>**



POPULATION  
**45,834,432**



CAPITAL  
**ALGIERS**



CONTINENT  
**AFRICA**



CURRENCY  
**ALGERIAN DINAR**



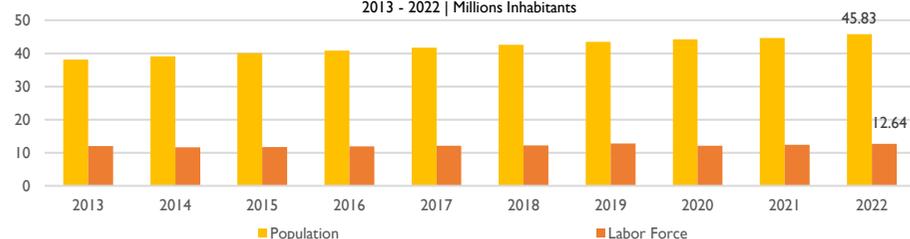
TIME ZONE  
**CENTRAL EUROPEAN (GMT+1)**

## 4.1.1 Macroeconomics

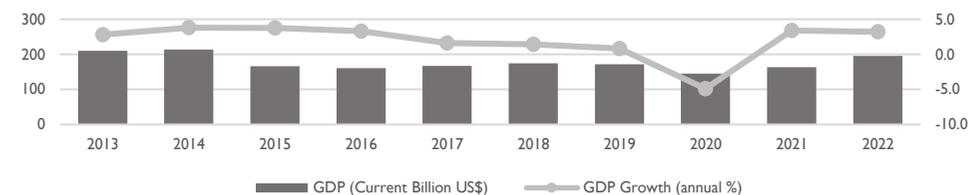
Table 4.1.1.1 Algeria Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	38,140,132	39,100,000	40,072,802	40,841,404	41,699,198	42,628,000	43,424,118	44,227,000	44,616,626	45,834,432
<b>Labor Force (Inhabitants)</b>	12,002,108	11,586,092	11,752,300	11,921,392	12,108,635	12,173,459	12,730,000	12,055,000	12,398,078	12,638,622
<b>GDP (Current Billion US\$)</b>	209.76	213.81	165.98	160.13	167.40	173.88	171.76	145.01	163.42	194.99
<b>GDP Growth (annual %)</b>	2.77	3.79	3.76	3.30	1.60	1.40	0.80	-4.90	3.40	3.20
<b>GDP per capita (Current US\$)</b>	5,499.72	5,468.29	4,141.96	3,920.78	4,014.47	4,079.01	3,955.41	3,278.74	3,662.80	4,254.20
<b>Exports of Goods and Services (Current Billion US\$)</b>	69.66	64.66	38.58	33.40	37.94	44.56	39.01	25.11	38.64	65.53
<b>Exports of Goods and Services (% of GDP)</b>	33.21	30.24	23.24	20.86	22.66	25.62	22.71	17.32	23.64	33.61
<b>Imports of Goods and Services (Current Billion US\$)</b>	63.77	68.31	60.81	56.09	55.60	56.24	49.97	40.60	43.02	43.06
<b>Imports of Goods and Services (% of GDP)</b>	30.40	31.95	36.64	35.03	33.20	32.30	29.10	28.00	26.33	22.10
<b>Inflation consumer prices (annual %)</b>	4.10	3.90	4.40	5.80	5.90	3.50	2.40	2.10	7.23	9.27
<b>Energy use (kg of oil equivalent per capita)</b>	1,247.50	1,333.90	1,368.70	1,347.70	1,339.90	1,430.90	1,433.30	1,325.02	1,416.77	1,441.12
<b>Natural Gas use (Scm per capita)</b>	852.80	951.59	1,005.62	990.42	1,002.78	1,058.86	1,068.44	1,018.22	1,110.82	1,130.58

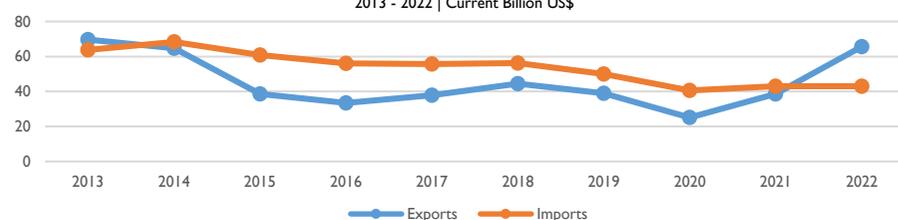
Graph 4.1.1.1. Algeria: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



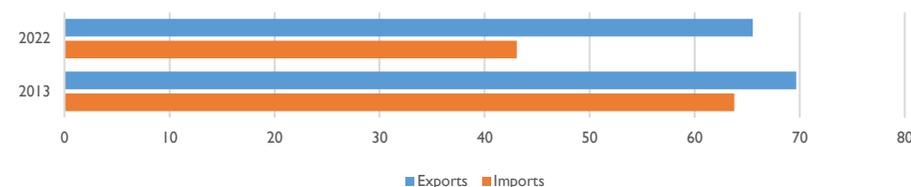
Graph 4.1.1.2. Algeria: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.1.1.3. Algeria: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



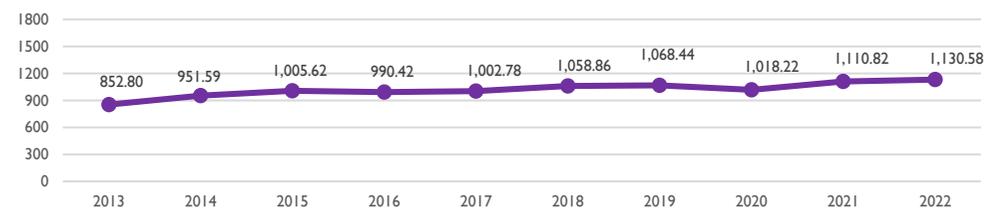
Graph 4.1.1.4. Algeria: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.1.1.5. Algeria: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.1.1.6. Algeria: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 4.1.2 Reserves and Production

Table 4.1.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504	4,504

Table 4.1.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	179.49	186.75	183.83	189.14	188.74	183.55	175.35	168.39	179.04	183.07
<b>Marketed Production</b>	82.43	83.30	84.58	94.95	96.60	97.47	89.98	84.60	105.04	101.44
<b>Reinjection</b>	76.20	81.21	77.05	70.12	66.94	61.10	60.33	59.98	47.05	52.98
<b>Flaring</b>	3.70	3.95	3.51	3.26	3.00	2.91	2.74	3.19	2.78	2.58
<b>Shrinkage</b>	17.16	18.30	18.68	20.81	22.21	22.07	22.30	20.64	24.17	26.07

Table 4.1.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	15630.01	14108.90	15699.78	15322.81	15782.79	14701.70	14955.61	15167.53	14819.87	15459.54	15366.22	16056.24
<b>Marketed Production</b>	9889.46	8632.70	9549.80	8349.63	7449.20	7757.20	7691.80	8179.00	7719.30	7493.60	8724.90	9999.80

## 4.1.3 Domestic Consumption and Trade

Table 4.1.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Residential</b>	6.62	7.07	7.90	8.13	8.68	10.62	10.97	10.89	11.03	12.07
<b>Industrial</b>	3.68	3.83	4.04	4.21	4.63	5.10	5.74	5.80	6.66	6.81
<b>Power Generation</b>	14.45	15.75	17.72	17.45	18.53	18.99	20.08	18.97	21.47	22.89
<b>Transportation</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.09	0.26
<b>Petrochemical (feedstock)</b>	1.82	2.83	3.66	4.00	3.18	4.75	3.94	3.60	4.09	3.96
<b>Refineries</b>	0.73	0.70	0.72	0.77	0.68	0.64	0.67	0.65	0.67	0.64
<b>Others</b>	5.22	7.02	6.25	5.88	6.10	5.03	4.98	5.11	5.56	5.19
<b>Totals</b>	32.53	37.21	40.30	40.45	41.82	45.14	46.40	45.03	49.56	51.82

Table 4.1.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	32.23	27.08	27.04	38.44	37.59	37.95	26.31	25.24	38.97	35.49
<b>LNG</b>	Bcm*	15.16	17.11	16.47	15.53	16.41	13.47	16.47	14.22	16.00
	MMT	11.15	12.58	12.11	11.42	12.07	9.90	12.11	10.46	11.77
<b>Totals (Bcm)</b>	47.39	44.19	43.51	53.97	54.00	51.42	42.78	39.46	54.97	49.14

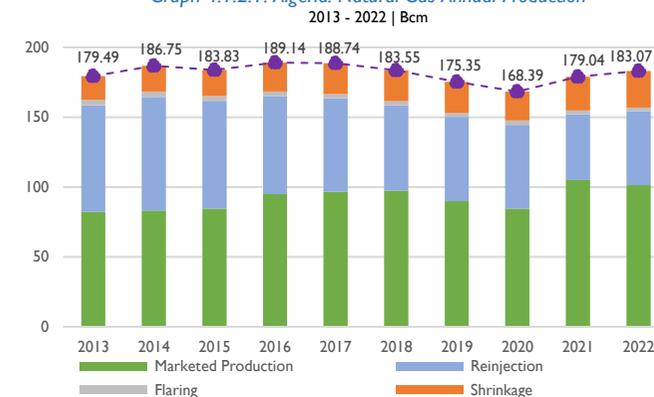
\* Gas equivalent

Table 4.1.3.3 Detailed 2022 Trade: Natural Gas Exports

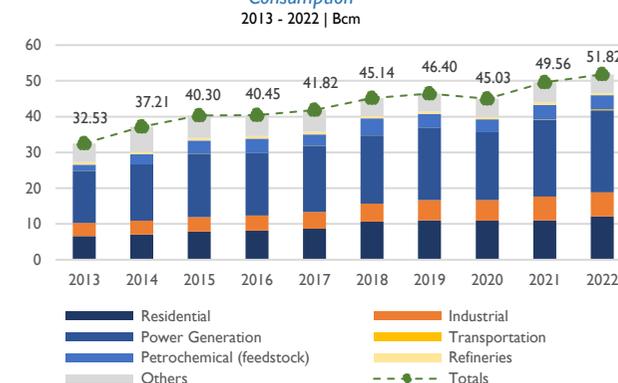
	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	3051.40	2777.70	3037.38	2881.89	2859.79	2876.36	2804.84	3129.30	3149.67	2882.65	2668.66	3367.38
<b>LNG</b>	Bcm*	1157.11	951.40	1308.67	1202.75	1030.82	1242.76	873.79	1126.10	1167.44	1259.81	1381.26
	MMT	850.93	699.65	962.39	884.50	758.06	913.92	642.58	828.13	696.54	858.53	926.46
<b>Totals (MMcm)</b>	4208.51	3729.10	4346.05	4084.64	3890.61	4119.12	3678.63	4255.40	4096.84	4050.09	3928.47	4748.64

\* Gas equivalent

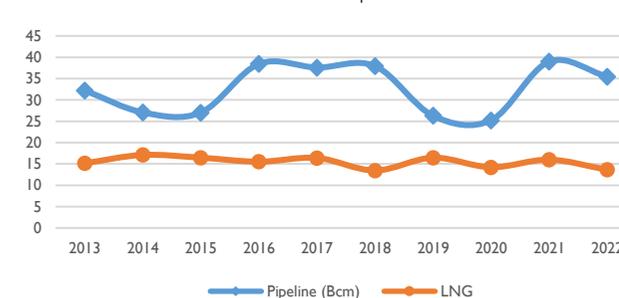
Graph 4.1.2.1. Algeria: Natural Gas Annual Production



Graph 4.1.3.1. Algeria: Natural Gas Annual Domestic Consumption



Graph 4.1.3.2. Algeria: Natural Gas Annual Exports



## 4.1.4 Transport and Plants

Table 4.1.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>Enrico Mattei (TransMediterranean)</b>	<b>Algeria</b>	Italy	Tunisia	Sonatrach, Sotugat, ENI	Sonatrach, TMPC, TTPC	Operational	33.5	Export	1982	2,475	47/20/42/48
<b>Medgaz</b>	<b>Algeria</b>	Spain	Med Sea	Sonatrach, Naturgy	Medgaz	Operational	10.7	Export	2011	210	48/24
<b>Trans-Saharan Gas</b>	<b>Algeria</b>	Nigeria	Niger	Sonatrach, NNPC	NA	Planned	20.0 – 30.0	Export	NA	4128	48/56
<b>Total Expected Capacity</b>							<b>74.2</b>				

Table 4.1.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Energy Spirit	Syngapore Carbon Hydrogen Shipping LMT	2006	74.13
Lalla Ftama N'soumer	Sonatrach Group	2004	145.45
Berge Arzew	Sonatrach Group	2004	138.00
Cheikh El-Mokrani	Sonatrach Group	2007	75.50
Cheikh Bouamama	Sonatrach Group	2008	75.50
Tessala	Sonatrach Group	2016	171.80
Ourgata	Sonatrach Group	2017	171.80
<b>Total</b>			<b>852.18</b>

Table 4.1.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>GLIZ</b>	6	10.1	Operational	1978	Sonatrach	Sonatrach
<b>GL2Z</b>	6	10.5	Operational	1981	Sonatrach	Sonatrach
<b>GLIK</b>	1	6.0	Operational	2013	Sonatrach	Sonatrach
<b>GL3Z</b>	1	5.8	Operational	2014	Sonatrach	Sonatrach
<b>Total Existing Capacity</b>		<b>32.4</b>				



Plurinational State of

# BOLIVIA

AREA: **1,098,581 km<sup>2</sup>**



POPULATION  
**12,006,031**



CAPITAL  
**SUCRE**



CONTINENT  
**SOUTH AMERICA**



CURRENCY  
**BOLIVIAN BOLIVIANO**



TIME ZONE  
**BOLIVIA (GMT-4)**

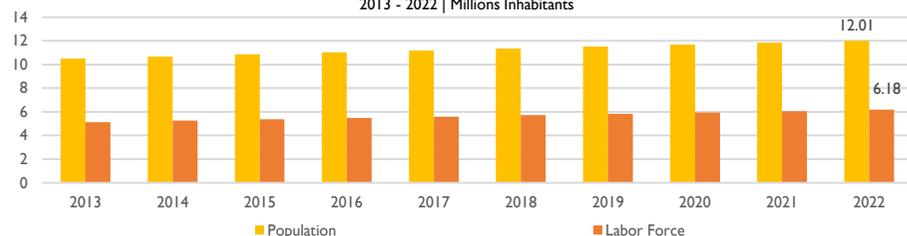
## 4.2.1 Macroeconomics

Table 4.2.1.1 Bolivia Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	10,521,247	10,685,994	10,851,103	11,016,438	11,181,861	11,347,241	11,512,468	11,677,406	11,841,955	12,006,031
<b>Labor Force (Inhabitants)</b>	5,140,002	5,252,954	5,367,472	5,482,890	5,599,033	5,715,242	5,831,367	5,947,030	6,062,475	6,177,428
<b>GDP (Current Billion US\$)</b>	30.88	33.24	33.24	34.19	37.78	40.58	41.19	36.90	40.70	44.31
<b>GDP Growth (annual %)</b>	6.80	5.46	4.86	4.26	4.20	4.22	2.22	-8.74	6.11	3.48
<b>GDP per capita (Current US\$)</b>	2,935.28	3,110.30	3,063.35	3,103.41	3,378.87	3,576.31	3,578.15	3,159.68	3,437.16	3,691.06
<b>Exports of Goods and Services (Current Billion US\$)</b>	13.62	14.39	10.26	8.37	9.41	10.55	10.28	7.48	11.33	14.45
<b>Exports of Goods and Services (% of GDP)</b>	44.09	43.29	30.87	24.49	24.90	25.99	24.97	20.27	27.82	32.62
<b>Imports of Goods and Services (Current Billion US\$)</b>	11.47	13.95	12.32	10.91	12.01	12.63	12.95	9.31	12.70	15.55
<b>Imports of Goods and Services (% of GDP)</b>	37.14	41.97	37.06	31.91	31.80	31.12	31.43	25.23	31.19	35.09
<b>Inflation consumer prices (annual %)</b>	5.74	5.76	4.06	3.62	2.82	2.27	1.84	0.94	0.74	1.75
<b>Energy use (kg of oil equivalent per capita)</b>	668.44	714.37	731.92	747.72	736.06	718.88	671.97	586.62	622.87	617.63
<b>Natural Gas use (Scm per capita)</b>	320.25	354.37	363.74	405.84	399.54	427.83	392.80	307.92	345.31	339.91

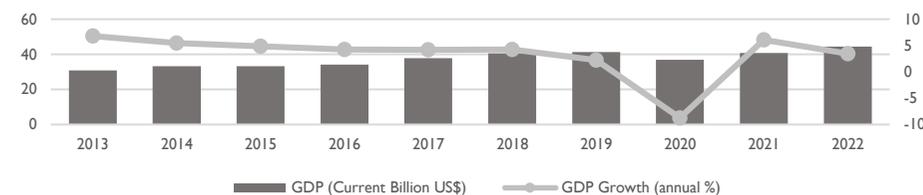
Graph 4.2.1.1. Bolivia: Population and Labor Force

2013 - 2022 | Millions Inhabitants



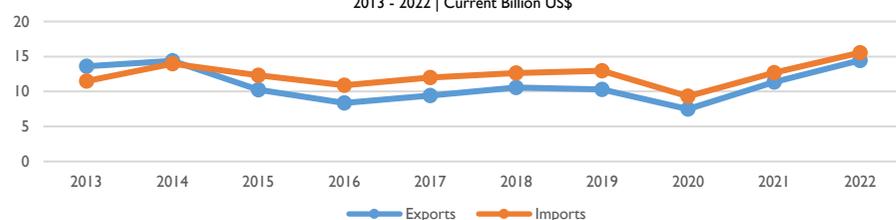
Graph 4.2.1.2. Bolivia: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



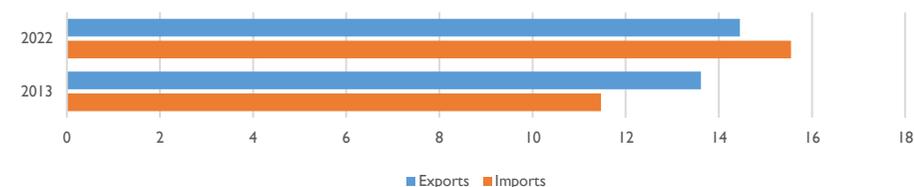
Graph 4.2.1.3. Bolivia: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 4.2.1.4. Bolivia: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



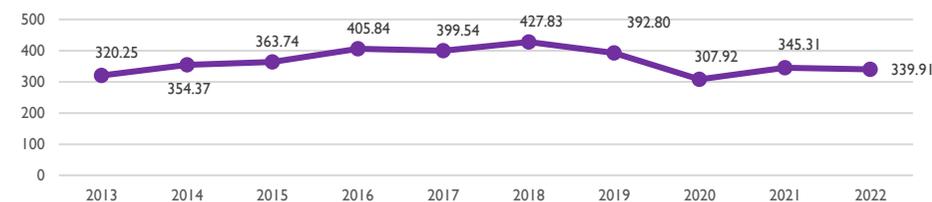
Graph 4.2.1.5. Bolivia: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 4.2.1.6. Bolivia: Natural Gas Use

2013 - 2022 | Scm per Capita



## 4.2.2 Reserves and Production

Table 4.2.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	296	296	296	296	255	253	253	253	253	253

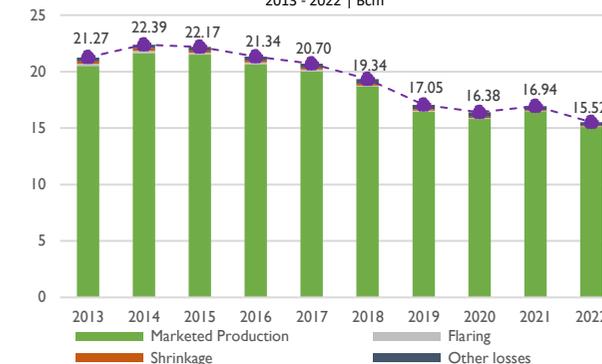
Table 4.2.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	21.27	22.39	22.17	21.34	20.70	19.34	17.05	16.38	16.94	15.52
<b>Marketed Production</b>	20.49	21.65	21.49	20.61	20.03	18.70	16.46	15.81	16.44	15.09
<b>Flaring</b>	0.21	0.20	0.18	0.19	0.16	0.08	0.08	0.07	0.06	0.06
<b>Shrinkage</b>	0.21	0.20	0.19	0.18	0.17	0.16	0.13	0.13	0.08	0.05
<b>Other losses</b>	0.34	0.33	0.32	0.36	0.34	0.41	0.37	0.38	0.36	0.31

Table 4.2.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	1386.86	1238.19	1363.13	1245.58	1320.70	1317.37	1365.82	1347.86	1234.32	1227.70	1210.05	1258.43
<b>Marketed Production</b>	1340.70	1204.67	1325.70	1210.06	1284.58	1285.68	1327.42	1312.46	1202.87	1195.40	1178.48	1225.37

Graph 4.2.2.1. Bolivia: Natural Gas Annual Production  
2013 - 2022 | Bcm



## 4.2.3 Domestic Consumption and Trade

Table 4.2.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Residential</b>	0.09	0.11	0.13	0.14	0.16	0.16	0.18	0.21	0.20	0.21
<b>Industrial</b>	0.86	0.91	0.91	0.92	0.90	0.90	0.89	0.78	0.90	0.94
<b>Power Generation</b>	1.54	1.76	1.84	2.20	2.09	1.92	1.73	1.51	1.55	1.61
<b>Transportation</b>	0.64	0.67	0.69	0.70	0.74	0.78	0.79	0.53	0.70	0.79
<b>Petrochemical (feedstock)</b>	0.14	0.14	0.19	0.22	0.24	0.59	0.36	0.16	0.30	0.44
<b>Refineries</b>	0.09	0.10	0.13	0.12	0.12	0.11	0.09	0.08	0.08	0.08
<b>Others</b>	0.01	0.02	0.06	0.13	0.14	0.28	0.28	0.14	0.22	0.12
<b>Totals</b>	3.38	3.71	3.94	4.43	4.38	4.76	4.32	3.40	3.95	4.18

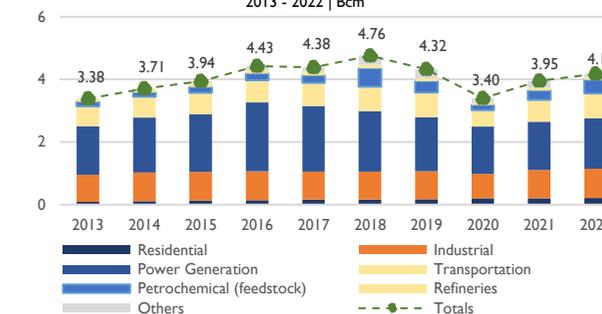
Table 4.2.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	17.12	17.80	17.52	16.08	15.39	13.84	11.75	11.81	11.98	10.31
<b>Totals (Bcm)</b>	17.12	17.80	17.52	16.08	15.39	13.84	11.75	11.81	11.98	10.31

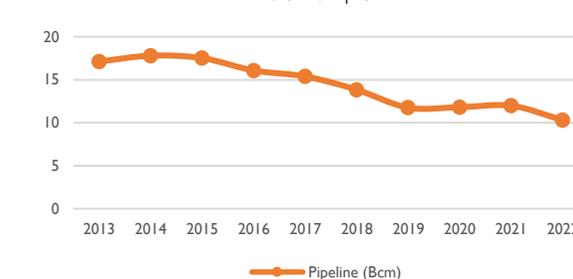
Table 4.2.3.3 Detailed 2022 Trade: Natural Gas Exports (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	1033.34	801.70	921.99	838.70	875.44	883.62	959.11	898.10	798.17	776.41	753.91	773.39
<b>Totals (MMcm)</b>	1033.34	801.70	921.99	838.70	875.44	883.62	959.11	898.10	798.17	776.41	753.91	773.39

Graph 4.2.3.1. Bolivia: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Graph 4.2.3.2. Bolivia: Natural Gas Annual Exports  
2013 - 2022 | Bcm



## 4.2.4 Transport and Plants

Table 4.2.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length	Diameter
	From	To	Via							(km)	(Inches)
GASBOL	Bolivia	Brazil	-	Gas TransBoliviano	Gas TransBoliviano	Operational	11	Export	1999	557	32
GJJA (Juana Azurduy)	Bolivia	Argentina	-	YPFB Transporte	YPFB Transporte	Operational	10.2	Export	2011	13	32
Yabog Gas Pipeline	Bolivia	Argentina	-	YPFB, TecGas NV, Compañía General de Combustibles S.A., Total S.A., Petronas	YPFB Transporte, TGN (Transportadora de Gas del Norte SA)	Operational	2.2	Export	1972	441	24
Cuiabá Pipeline	Bolivia	Brazil	-	GasOriente Boliviano	GasOriente Boliviano	Operational	1.5	Export	2002	362	18
<b>Total Existing Capacity</b>							<b>24.9</b>				

Table 4.2.4.2 Domestic Gas Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Rio Grande LNG</b>	1	0.08	Operational	2016	YPFB	YPFB



Arab Republic of

**EGYPT**

AREA: **1,001,450 km<sup>2</sup>**



POPULATION  
**110,990,103**



CAPITAL  
**CAIRO**



CONTINENT  
**AFRICA**



CURRENCY  
**EGYPTIAN POUND**



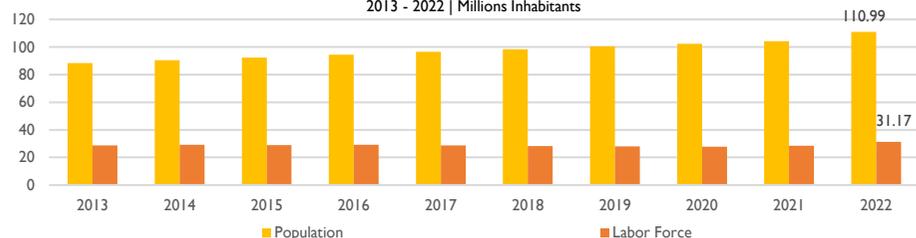
TIME ZONE  
**EASTERN EUROPEAN (GMT+2)**

### 4.3.1 Macroeconomics

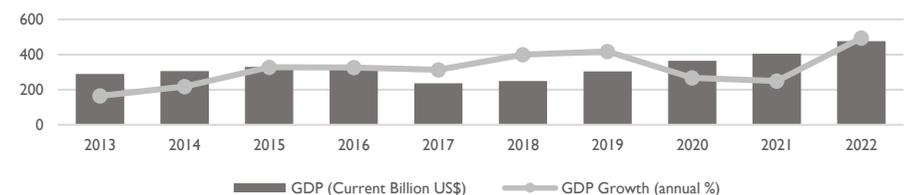
Table 4.3.1.1 Egypt Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	88,404,652	90,424,668	92,442,549	94,447,071	96,442,590	98,423,602	100,388,076	102,334,403	104,258,327	110,990,103
<b>Labor Force (Inhabitants)</b>	28,717,575	29,084,186	28,961,629	29,254,321	28,747,249	28,245,855	28,036,701	27,870,211	28,462,356	31,166,284
<b>GDP (Current Billion US\$)</b>	288.43	305.60	329.37	332.44	235.73	249.71	303.08	365.25	404.14	476.75
<b>GDP Growth (annual %)</b>	2.19	2.92	4.37	4.35	4.18	5.31	5.56	3.57	3.33	6.59
<b>GDP per capita (Current US\$)</b>	3,262.66	3,379.56	3,562.93	3,519.87	2,444.29	2,537.13	3,019.09	3,569.21	3,876.36	4,295.41
<b>Exports of Goods and Services (Current Billion US\$)</b>	49.09	43.53	43.42	34.39	37.29	47.23	53.04	47.87	44.85	71.93
<b>Exports of Goods and Services (% of GDP)</b>	17.02	14.24	13.18	10.35	15.82	18.91	17.50	13.11	11.10	15.09
<b>Imports of Goods and Services (Current Billion US\$)</b>	67.36	69.30	71.35	66.16	69.09	73.33	78.01	75.43	81.94	104.39
<b>Imports of Goods and Services (% of GDP)</b>	23.36	22.68	21.66	19.90	29.31	29.37	25.74	20.65	20.28	21.90
<b>Inflation consumer prices (annual %)</b>	9.47	10.07	10.37	13.81	14.40	9.15	5.04	5.55	13.90	
<b>Energy use (kg of oil equivalent per capita)</b>	848.63	827.50	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Gas use (Scm per capita)</b>	579.70	531.32	517.03	542.94	603.02	622.73	603.59	587.97	608.75	549.60

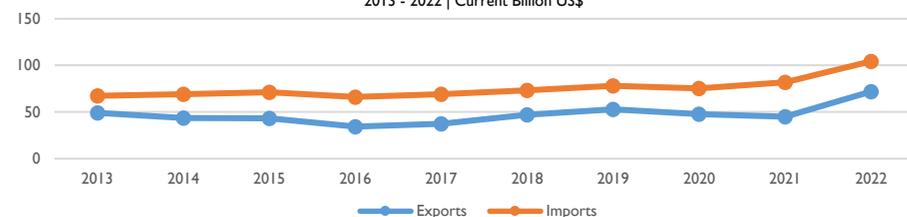
Graph 4.3.1.1. Egypt: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



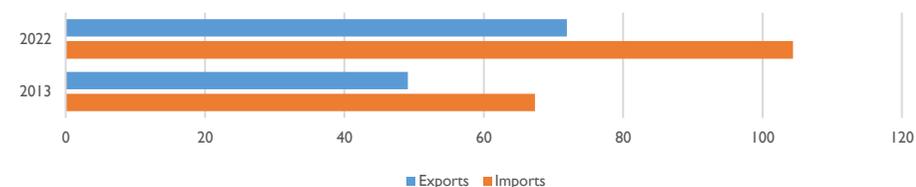
Graph 4.3.1.2. Egypt: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.3.1.3. Egypt: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



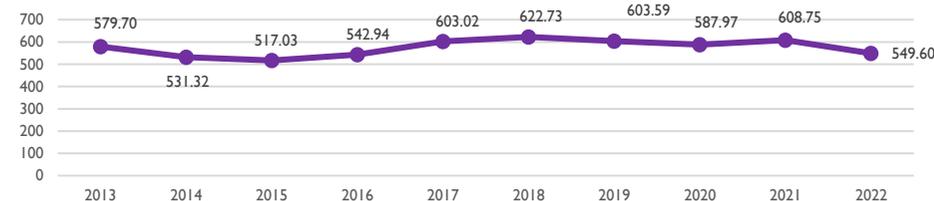
Graph 4.3.1.4. Egypt: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.3.1.5. Egypt: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.3.1.6. Egypt: Natural Gas Use  
2013 - 2022 | Scm per Capita



### 4.3.2 Reserves and Production

Table 4.3.2.1 Proven Natural Gas Reserves (Bcm)

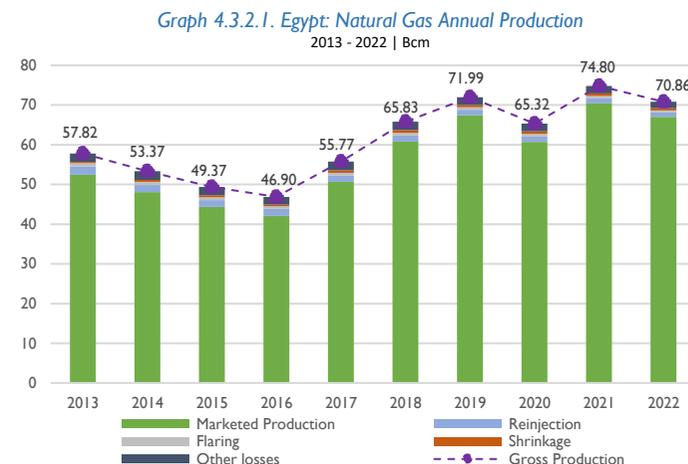
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	1,777	2,186	2,086	2,221	2,221	2,221	2,221	2,209	2,209	2,209

Table 4.3.2.2 Historical Natural Gas Production (Bcm)

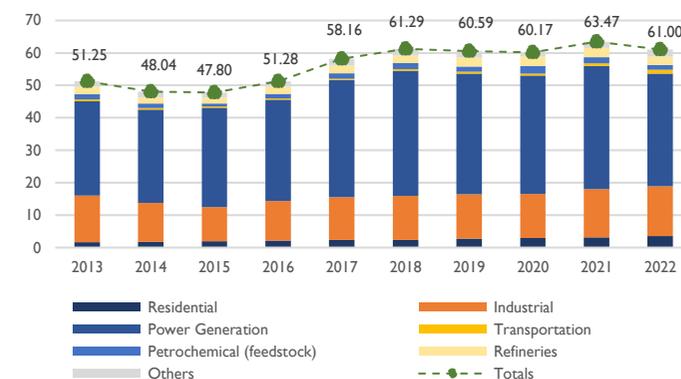
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	57.82	53.37	49.37	46.90	55.77	65.83	71.99	65.32	74.80	70.86
<b>Marketed Production</b>	52.49	48.07	44.32	42.10	50.71	60.84	67.47	60.74	70.44	66.80
<b>Reinjection</b>	2.07	1.76	1.76	1.73	1.55	1.50	1.38	1.38	1.32	1.16
<b>Flaring</b>	0.78	0.82	0.70	0.65	0.67	0.66	0.59	0.61	0.58	0.51
<b>Shrinkage</b>	0.34	0.49	0.46	0.40	0.68	0.69	0.58	0.62	0.60	0.54
<b>Other losses</b>	2.15	2.23	2.13	2.02	2.15	2.13	1.98	1.96	1.86	1.85

Table 4.3.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	6307.89	5471.75	6158.75	5878.10	5944.67	5842.85	6048.71	5907.70	5761.22	5945.84	5716.00	5875.82
<b>Marketed Production</b>	5951.00	5146.67	5794.68	5542.04	5589.82	5504.62	5728.32	5595.05	5435.47	5596.31	5389.44	5525.58



Graph 4.3.3.1. Egypt: Natural Gas Annual Domestic Consumption 2013 - 2022 | Bcm



### 4.3.3 Domestic Consumption and Trade

Table 4.3.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Residential</b>	1.64	1.79	1.96	2.16	2.36	2.38	2.79	2.92	3.19	3.52
<b>Industrial</b>	14.39	11.99	10.49	12.21	13.23	13.52	13.61	13.66	14.84	15.41
<b>Power Generation</b>	29.07	28.71	30.64	31.25	36.06	38.64	37.23	36.40	37.93	34.72
<b>Transportation</b>	0.53	0.49	0.45	0.39	0.38	0.42	0.55	0.64	0.87	1.16
<b>Petrochemical (feedstock)</b>	1.59	1.40	0.83	1.35	1.70	1.92	1.57	2.37	1.89	1.50
<b>Refineries</b>	2.28	1.90	1.85	2.15	2.40	2.28	2.80	2.84	2.84	2.58
<b>Others</b>	1.73	1.74	1.58	1.77	2.04	2.13	2.04	1.34	1.92	2.11
<b>Totals</b>	<b>51.25</b>	<b>48.04</b>	<b>47.80</b>	<b>51.28</b>	<b>58.16</b>	<b>61.29</b>	<b>60.59</b>	<b>60.17</b>	<b>63.47</b>	<b>61.00</b>

Table 4.3.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.57	0.73
<b>LNG</b>	Bcm*	4.02	0.36	0.00	0.99	1.33	2.45	5.89	9.96	11.31
	MMT	2.96	0.27	0.00	0.73	0.98	1.80	4.33	7.32	8.31
<b>Totals (Bcm)</b>	<b>4.62</b>	<b>0.36</b>	<b>0.00</b>	<b>0.99</b>	<b>1.33</b>	<b>2.45</b>	<b>5.89</b>	<b>2.82</b>	<b>10.52</b>	<b>12.04</b>

\* Gas equivalent

Graph 4.3.3.2. Egypt: Natural Gas Exports and Imports 2013 - 2022 | Bcm

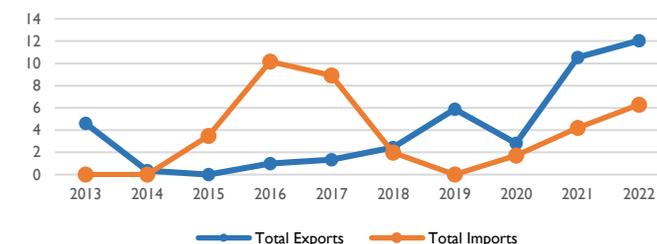


Table 4.3.3.3 Detailed 2022 Trade: Natural Gas Exports

	2022												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Pipeline (MMcm)</b>	113.00	99.00	110.00	29.73	30.72	29.73	53.30	65.82	63.71	43.26	29.73	65.12	
<b>LNG</b>	Bcm*	833.00	781.00	1154.00	1211.00	1211.00	444.26	613.00	76.00	914.00	1241.00	1393.00	1436.00
	MMT	612.50	574.26	848.53	890.44	890.44	326.66	450.74	55.88	672.06	912.50	1024.26	1055.88
<b>Totals (MMcm)</b>	<b>946.00</b>	<b>880.00</b>	<b>1264.00</b>	<b>1242.00</b>	<b>1242.00</b>	<b>473.99</b>	<b>666.30</b>	<b>142.82</b>	<b>978.00</b>	<b>1284.26</b>	<b>1423.00</b>	<b>1502.00</b>	

\* Gas equivalent

Table 4.3.3.4 Historical Trade: Natural Gas Imports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	4.22	6.29
<b>LNG</b>	Bcm*	0.00	0.00	3.49	10.15	8.91	1.97	0.00	0.00	0.00
	MMT	0.00	0.00	2.57	7.47	6.55	1.45	0.00	0.00	0.00
<b>Totals (Bcm)</b>	<b>0.00</b>	<b>0.00</b>	<b>3.49</b>	<b>10.15</b>	<b>8.91</b>	<b>1.97</b>	<b>0.00</b>	<b>1.72</b>	<b>4.22</b>	<b>6.29</b>

\* Gas equivalent

Table 4.3.3.5 Detailed 2022 Trade: Natural Gas Imports

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	386.00	398.00	632.00	634.17	614.05	508.91	401.47	352.10	517.89	407.00	701.99	736.00
<b>LNG</b>	Bcm*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MMT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Totals (MMcm)</b>	<b>386.00</b>	<b>398.00</b>	<b>632.00</b>	<b>614.00</b>	<b>614.05</b>	<b>508.91</b>	<b>401.47</b>	<b>352.10</b>	<b>517.89</b>	<b>407.00</b>	<b>701.99</b>	<b>736.00</b>

\* Gas equivalent

## 4.3.4 Transport and Plants

Table 4.3.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)	
	From	To	Via									
<b>Arab Gas Pipeline</b>	Egypt	Jordan, Syria, Lebanon	-	EGAS, ENPPI, GASCOPETROJET SPC	Egyptian FAJR	Operational	10.0	Export	2003	1,200	36	
<b>EMG</b>	Israel	Egypt	-	EMG	Israel Natural Gas Lines (INGL)	Operational	7.0-9.0	Import	2020	90	26	
<b>Total Existing Capacity</b>							<b>17.0-19.0</b>					

Table 4.3.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>IDKU Egyptian LNG</b>	2	7.2	Operational	2005	Shell, EGAS, EGBC, Petronas, ENGIE	OPCO
<b>Damietta</b>	1	4.8	Operational	2005	EGAS, EGBC, Union Fenosa Gas	SEGAS
<b>Total Existing Capacity</b>	<b>12.0</b>					

Table 4.3.4.3 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Ain Sokhna FSRU I</b>	3.0	Operational	2015	Norwegian Hoegh	Norwegian Hoegh
<b>Ain Sokhna FSRU 2</b>	4.5	Offline	2015	Norwegian BW Gas	Norwegian BW Gas
<b>Total Existing Capacity</b>	<b>7.5</b>				



Republic of  
**EQUATORIAL GUINEA**

AREA: **28,051 km<sup>2</sup>**



POPULATION  
**1,674,908**



CAPITAL  
**MALABO**



CONTINENT  
**AFRICA**



CURRENCY  
**CENTRAL AFRICAN CFA FRANC**



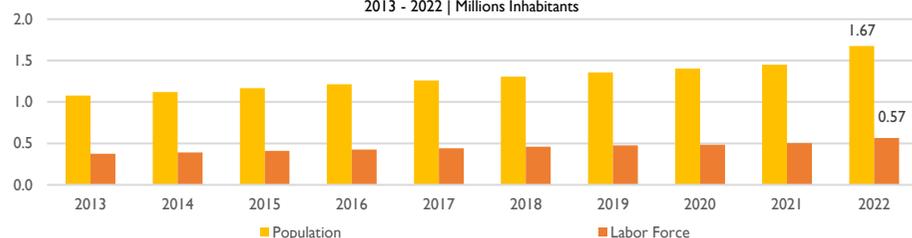
TIME ZONE  
**WEST AFRICA (GMT+1)**

### 4.4.I Macroeconomics

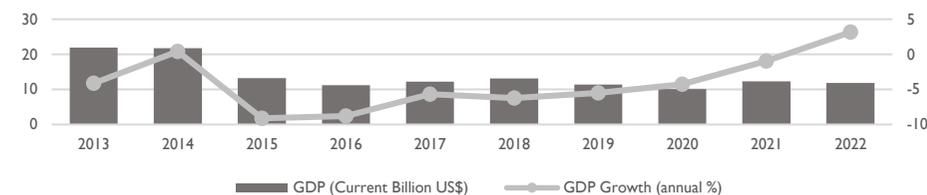
Table 4.4.1.1 Equatorial Guinea Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	1,076,412	1,122,273	1,168,575	1,215,181	1,262,008	1,308,966	1,355,982	1,402,985	1,449,891	1,674,908
<b>Labor Force (Inhabitants)</b>	374,439	391,238	408,279	424,929	442,090	459,385	476,710	483,616	503,147	566,927
<b>GDP (Current Billion US\$)</b>	21.95	21.77	13.19	11.24	12.20	13.10	11.36	10.10	12.27	11.81
<b>GDP Growth (annual %)</b>	-4.13	0.42	-9.11	-8.82	-5.67	-6.24	-5.48	-4.24	-0.95	3.15
<b>GDP per capita (Current US\$)</b>	20,390.74	19,394.08	11,283.40	9,250.32	9,667.86	10,005.62	8,380.74	7,198.34	8,462.29	7,053.47
<b>Exports of Goods and Services (Current Billion US\$)</b>	14.85	14.36	7.47	5.78	7.18	7.81	5.81	4.39	6.81	6.66
<b>Exports of Goods and Services (% of GDP)</b>	67.65	65.96	56.66	51.41	58.86	59.61	51.13	43.49	55.47	56.34
<b>Imports of Goods and Services (Current Billion US\$)</b>	8.61	8.36	5.57	4.63	5.32	5.77	4.97	4.64	5.72	5.43
<b>Imports of Goods and Services (% of GDP)</b>	39.24	38.42	42.22	41.19	43.57	44.03	43.75	45.94	46.59	45.99
<b>Inflation consumer prices (annual %)</b>	2.95	4.31	1.68	1.41	0.75	1.35	1.24	4.77	2.10	4.79
<b>Energy use (kg of oil equivalent per capita)</b>	NA									
<b>Natural Gas use (Scm per capita)</b>	1,365.65	1,282.22	1,101.34	1,310.92	1,248.80	1,162.31	1,095.34	1,336.93	1,559.70	1,382.09

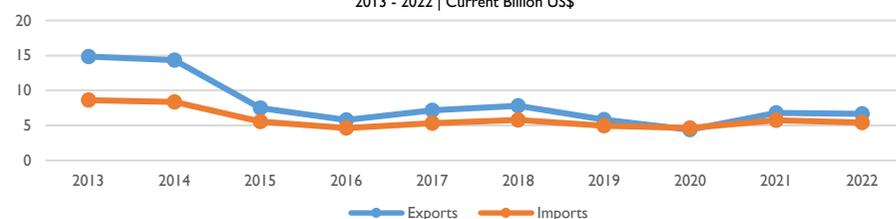
Graph 4.4.1.1. Equatorial Guinea: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



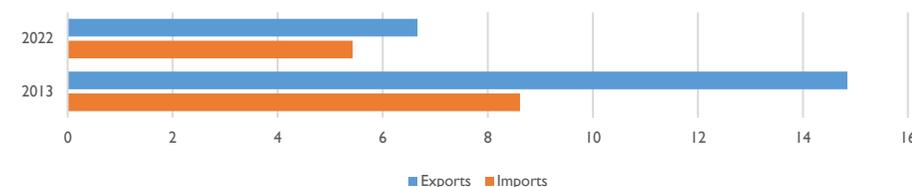
Graph 4.4.1.2. Equatorial Guinea: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.4.1.3. Equatorial Guinea: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



Graph 4.4.1.4. Equatorial Guinea: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.4.1.5. Equatorial Guinea: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.4.1.6. Equatorial Guinea: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 4.4.2 Reserves and Production

Table 4.4.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	66	60	54	47	42	42	39	39	39	39

Table 4.4.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	14.00	13.89	15.45	14.76	13.80	12.66	12.16	11.15	9.97	10.82
<b>Marketed Production</b>	8.41	8.17	7.48	7.87	8.30	7.45	6.70	6.05	7.04	8.10
<b>Reinjection</b>	3.04	3.13	5.63	4.69	3.54	3.43	3.67	3.44	1.51	1.57
<b>Flaring</b>	1.53	1.33	1.27	0.96	0.76	0.76	0.60	0.66	0.48	0.49
<b>Shrinkage</b>	NA	NA	NA	NA	NA	NA	0.17	0.15	0.13	0.13
<b>Other losses</b>	1.20	1.17	1.11	1.29	1.27	1.00	1.02	0.86	0.81	0.52

Table 4.4.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	922.79	790.78	941.78	906.01	851.13	919.46	941.17	934.66	912.98	876.50	883.32	934.82
<b>Marketed Production</b>	708.70	591.81	705.64	689.74	627.70	698.44	699.93	704.40	684.73	645.38	649.58	698.69

## 4.4.3 Domestic Consumption and Trade

Table 4.4.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Power Generation</b>	0.20	0.23	0.24	0.29	0.28	0.28	0.31	0.29	0.30	0.32
<b>Petrochemical (feedstock)</b>	1.25	1.22	1.03	1.30	1.30	1.24	1.18	1.01	1.17	1.20
<b>Others</b>	NA	0.58	0.73	0.79						
<b>Totals</b>	1.45	1.45	1.27	1.59	1.58	1.52	1.49	1.88	2.21	2.31

Table 4.4.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>LNG</b>	Bcm*	6.07	6.17	5.57	5.31	5.88	5.40	4.51	3.96	4.69	5.74
	MMT	4.47	4.54	4.10	3.90	4.32	3.97	3.31	2.91	3.45	4.22
<b>Totals (Bcm)</b>	6.07	6.17	5.57	5.31	5.88	5.40	4.51	3.96	4.69	5.74	

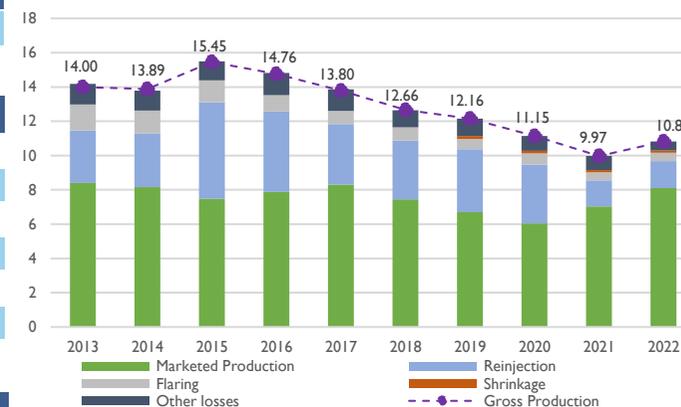
\* Gas equivalent

Table 4.4.3.3 Detailed 2022 Trade: Natural Gas Exports

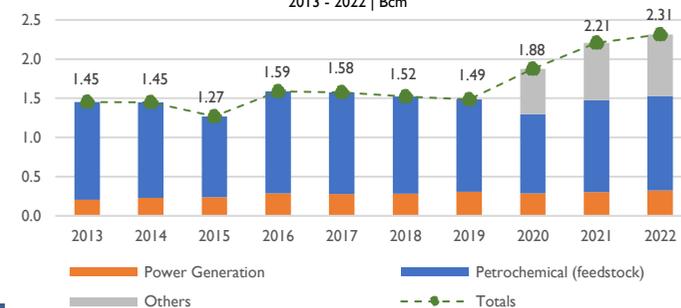
	2022												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>LNG</b>	MMcm*	547.95	436.70	421.92	431.92	621.49	554.85	539.26	429.19	508.82	427.15	309.80	507.50
	1000MT	402.91	321.10	310.23	317.59	456.98	407.98	396.51	315.58	374.13	314.08	227.80	373.16
<b>Totals (MMcm)</b>	547.95	436.70	421.92	431.92	621.49	554.85	539.26	429.19	508.82	427.15	309.80	507.50	

\* Gas equivalent

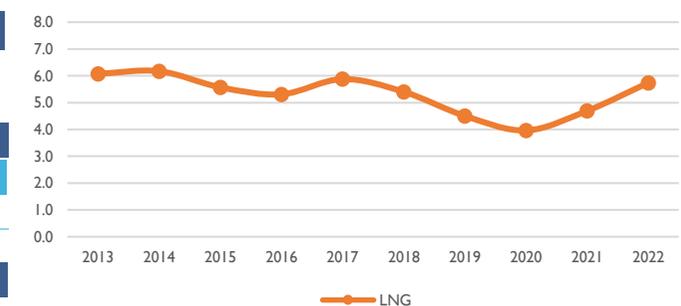
Graph 4.4.2.1. Equatorial Guinea: Natural Gas Annual Production 2013 - 2022 | Bcm



Graph 4.4.3.1. Equatorial Guinea: Natural Gas Annual Domestic Consumption 2013 - 2022 | Bcm



Graph 4.4.3.2. Equatorial Guinea: Natural Gas Annual Exports 2013 - 2022 | Bcm



## 4.4.4 Transport and Plants

Table 4.4.4.1 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Equatorial Guinea (EG) LNG</b>	1	3.7	Operational	2007	Marathon, Sonagas, Marubeni	EG LNG



Islamic Republic of  
**IRAN**

AREA: **1,745,150 km<sup>2</sup>**



POPULATION  
**88,550,570**



CAPITAL  
**TEHRAN**



CONTINENT  
**MIDDLE EAST**



CURRENCY  
**IRANIAN RIYAL**



TIME ZONE  
**IRAN STANDARD (GMT+3.5)**

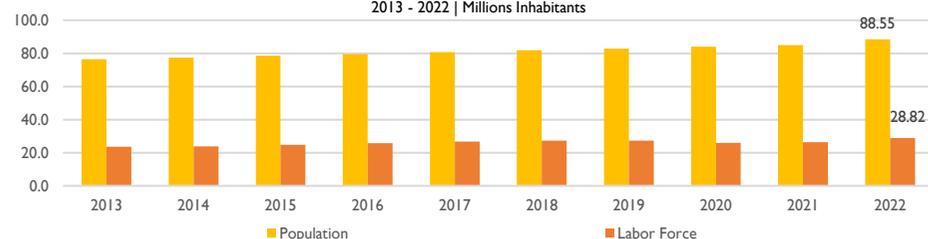
## 4.5.I Macroeconomics

Table 4.5.1.1 Iran Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	76,481,963	77,465,769	78,492,208	79,563,991	80,673,888	81,800,204	82,913,893	83,992,953	85,028,760	88,550,570
<b>Labor Force (Inhabitants)</b>	23,663,015	23,762,811	24,705,761	25,742,459	26,730,481	27,200,998	27,293,909	25,884,148	26,410,385	28,819,421
<b>GDP (Current Billion US\$)</b>	492.78	460.38	408.21	457.95	486.63	330.99	291.36	231.55	359.10	388.54
<b>GDP Growth (annual %)</b>	-1.52	4.98	-1.42	8.82	2.76	-2.25	-1.34	1.76	4.72	2.75
<b>GDP per capita (Current US\$)</b>	6,443.03	5,943.05	5,200.68	5,755.80	6,032.07	4,046.34	3,514.04	2,756.75	4,084.20	4,387.83
<b>Exports of Goods and Services (Current Billion US\$)</b>	124.10	105.11	76.42	96.91	110.64	100.02	66.17	48.05	82.01	76.92
<b>Exports of Goods and Services (% of GDP)</b>	25.18	22.83	18.72	21.16	22.74	30.22	22.71	20.75	22.84	19.80
<b>Imports of Goods and Services (Current Billion US\$)</b>	107.94	103.68	84.51	88.05	107.10	93.23	79.66	59.11	77.33	69.45
<b>Imports of Goods and Services (% of GDP)</b>	21.90	22.52	20.70	19.23	22.01	28.17	27.34	25.53	21.53	17.88
<b>Inflation consumer prices (annual %)</b>	36.60	16.61	12.48	7.25	8.04	18.01	39.91	30.59	43.39	NA
<b>Energy use (kg of oil equivalent per capita)</b>	2,889.11	3,060.39	NA							
<b>Natural Gas use (Scm per capita)</b>	2,243.27	2,427.14	2,585.86	2,653.84	2,699.26	2,785.14	2,788.68	2,774.01	2,837.28	2,765.58

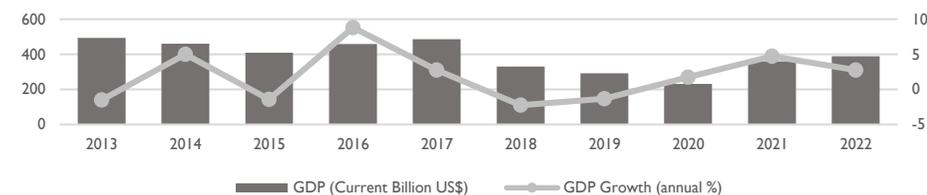
Graph 4.5.1.1. Iran: Population and Labor Force

2013 - 2022 | Millions Inhabitants



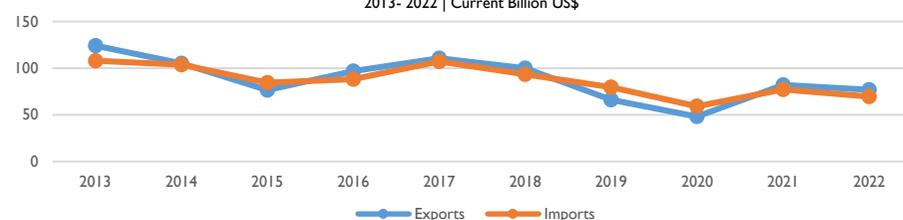
Graph 4.5.1.2. Iran: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



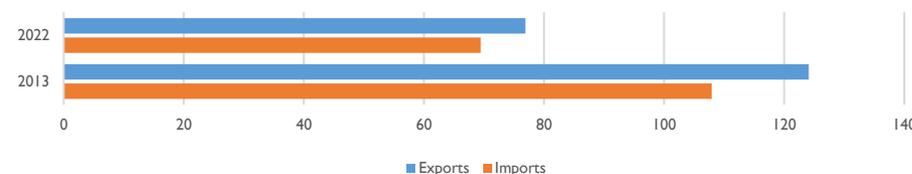
Graph 4.5.1.3. Iran: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 4.5.1.4. Iran: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



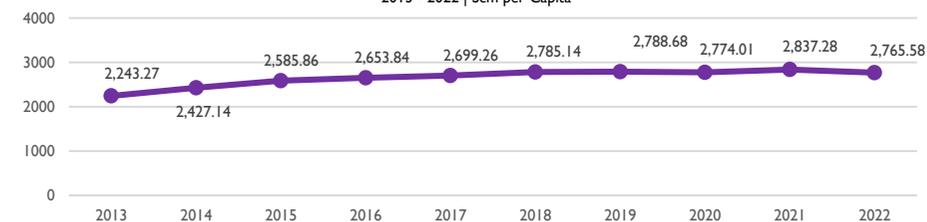
Graph 4.5.1.5. Iran: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 4.5.1.6. Iran: Natural Gas Use

2013 - 2022 | Scm per Capita



## 4.5.2 Reserves and Production

Table 4.5.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	33,850	33,440	33,720	33,820	33,330	33,899	33,899	33,988	33,988	33,988

Table 4.5.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	229.83	245.68	256.98	277.39	301.45	311.49	322.50	329.86	334.53	342.43
<b>Marketed Production</b>	171.57	188.02	202.97	211.14	217.80	233.06	241.73	249.63	256.88	262.02
<b>Reinjection</b>	29.61	28.08	28.90	31.69	31.09	33.57	32.86	31.10	31.98	32.62
<b>Shrinkage</b>	7.99	9.45	10.68	11.82	12.94	12.64	11.97	10.43	11.10	11.64
<b>Other losses</b>	20.66	20.13	14.43	22.74	39.62	31.31	34.86	34.70	34.57	36.16

Graph 4.5.2.1. Iran: Natural Gas Annual Production



## 4.5.3 Domestic Consumption and Trade

Table 4.5.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Residential</b>	78.45	83.35	81.98	85.17	88.85	93.98	97.32	99.95	103.74	104.48
<b>Industrial</b>	23.28	22.40	25.85	28.67	31.55	32.80	33.56	35.08	36.61	36.53
<b>Power Generation</b>	36.70	45.35	56.87	62.03	65.48	67.52	68.19	68.55	68.79	71.37
<b>Transportation</b>	6.65	7.05	7.37	7.56	7.59	8.12	8.37	8.65	8.95	9.01
<b>Petrochemical (feedstock)</b>	3.70	4.19	4.54	5.07	5.82	5.85	5.17	5.24	5.25	5.43
<b>Refineries</b>	7.71	8.13	7.13	5.54	5.13	5.65	5.95	5.32	5.88	5.96
<b>Others</b>	15.08	17.55	19.23	17.11	13.34	13.90	12.66	10.20	12.03	12.11
<b>Totals</b>	171.57	188.02	202.97	211.15	217.76	227.82	231.22	233.00	241.25	244.89

Graph 4.5.3.1. Iran: Natural Gas Annual Domestic Consumption

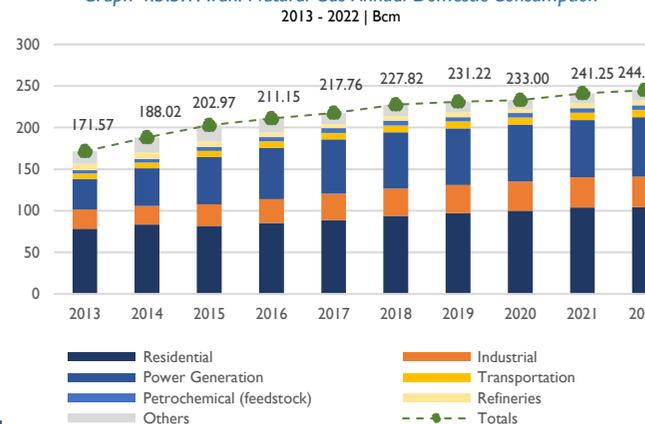


Table 4.5.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	9.54	9.76	8.60	8.65	12.89	13.24	18.35	15.52	17.60	18.04
<b>Totals (Bcm)</b>	9.54	9.76	8.60	8.65	12.89	13.24	18.35	15.52	17.60	18.04

Graph 4.5.3.2. Iran: Natural Gas Exports and Imports



Table 4.5.3.3 Historical Trade: Natural Gas Imports (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	5.09	6.33	9.50	7.33	4.72	5.91	1.27	0.02	0.00	0.00
<b>Totals (Bcm)</b>	5.09	6.33	9.50	7.33	4.72	5.91	1.27	0.02	0.00	0.00

## 4.5.4 Transport and Plants

Table 4.5.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)	
	From	To	Via									
<b>Tabriz-Ankara</b>	Iran	Turkey	-	NIOC, Botas	NIOC, Botas	Operational	14.0	Export	2002	3,250	40	
<b>Jolfa-Nakhchivan</b>	Iran	Azerbaijan	-	NIGC, SOCAR	NIGC, SOCAR	Operational	10.0	Swap	2005	627	40	
<b>Tabriz-Sardanian</b>	Iran	Armenia	-	NIOC, Armenia Gazprom	NIOC, Armenia Gazprom	Operational	2.3	Export	2006	140	30	
<b>Asaluye-Baghdad</b>	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	12.8	Export	2017	230	NA	
<b>Dauletabad-Khangiran</b>	Turkmenistan	Iran	-	Turkmengaz	Turkmengaz	Operational	12.0	Import	2007	182	48	
<b>Asaluye-Basrah</b>	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	NA	Export	NA	NA	NA	
<b>Asaluye-Nawabshah</b>	Iran	Pakistan	-	NIOC, SNGPL, SSGC, Gazprom JSC	NIOC, SNGPL, SSGC, Gazprom JSC	Proposed	40.0	Export	NA	2,775	56	
<b>Asaluye-Sohar</b>	Iran	Oman	-	NIOC, OGC	NIOC, OGC	Planned	9.9	Export	2020	NA	NA	
<b>Total Expected Capacity</b>							<b>+101.0</b>					

Table 4.5.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Iran FLNG</b>	1	0.7	Cancelled	-	-	-



State of  
**LIBYA**

AREA: **1,759,540 km<sup>2</sup>**



POPULATION  
**6,812,341**



CAPITAL  
**TRIPOLI**



CONTINENT  
**AFRICA**



CURRENCY  
**LIBYAN DINAR**



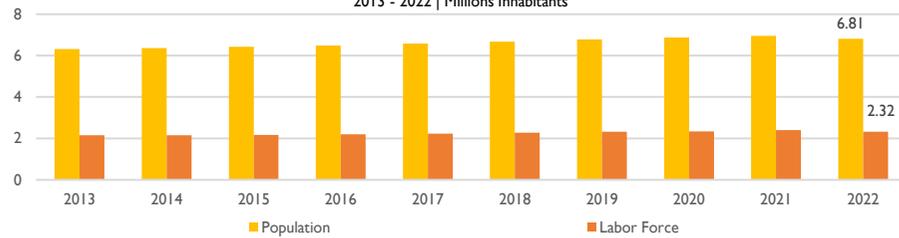
TIME ZONE  
**EASTERN EUROPEAN (GMT+2)**

## 4.6.I Macroeconomics

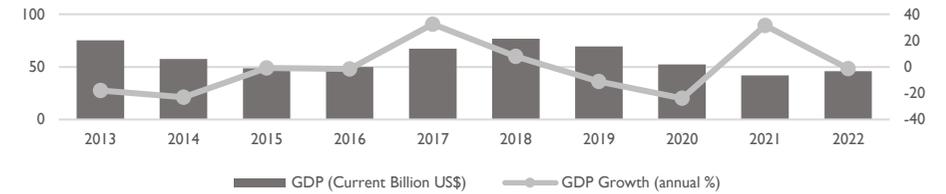
Table 4.6.I.1 Libya Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	6,320,350	6,362,039	6,418,315	6,492,160	6,580,723	6,678,565	6,777,453	6,871,287	6,958,538	6,812,341
<b>Labor Force (Inhabitants)</b>	2,146,672	2,157,704	2,173,488	2,201,903	2,236,944	2,276,671	2,318,129	2,337,057	2,403,613	2,318,929
<b>GDP (Current Billion US\$)</b>	75.35	57.37	48.72	49.91	67.16	76.68	69.25	52.32	41.88	45.75
<b>GDP Growth (annual %)</b>	-18.00	-23.04	-0.84	-1.49	32.49	7.94	-11.20	-23.93	31.37	-1.24
<b>GDP per capita (Current US\$)</b>	1,921.91	9,017.93	7,590.44	7,687.88	10,205.32	11,482.13	10,218.04	7,614.33	6,018.45	6,716.10
<b>Exports of Goods and Services (Current Billion US\$)</b>	45.13	18.50	10.83	7.28	18.27	30.38	29.66	8.61	NA	NA
<b>Exports of Goods and Services (% of GDP)</b>	59.89	32.24	22.23	14.58	27.20	39.61	42.84	33.89	NA	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	35.00	25.41	16.89	13.24	13.67	18.53	24.50	20.38	NA	NA
<b>Imports of Goods and Services (% of GDP)</b>	46.45	44.29	34.68	26.53	20.35	24.17	35.37	38.95	NA	NA
<b>Inflation consumer prices (annual %)</b>	2.61	NA								
<b>Energy use (kg of oil equivalent per capita)</b>	3,071.82	2,808.65	NA							
<b>Natural Gas use (Scm per capita)</b>	1,809.73	1,598.70	1,354.35	1,309.32	1,240.33	1,245.49	1,238.68	1,138.31	1,287.63	1,481.22

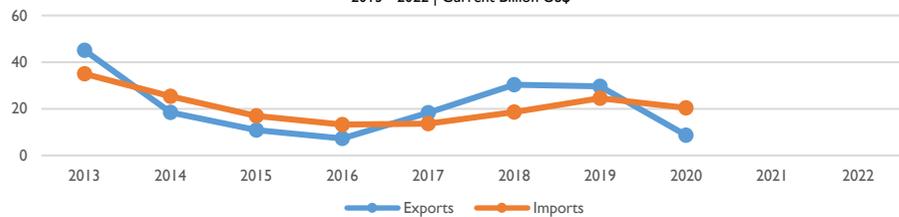
Graph 4.6.I.1. Libya: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



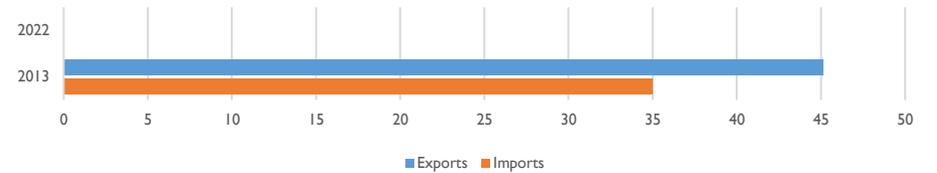
Graph 4.6.I.2. Libya: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.6.I.3. Libya: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



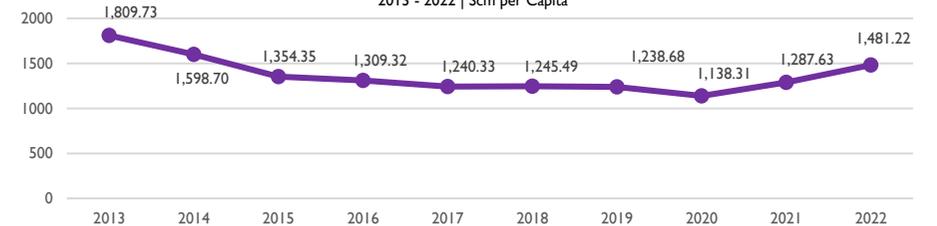
Graph 4.6.I.4. Libya: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.6.I.5. Libya: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.6.I.6. Libya: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 4.6.2 Reserves and Production

Table 4.6.2.1 Proven Natural Gas Reserves (Bcm)

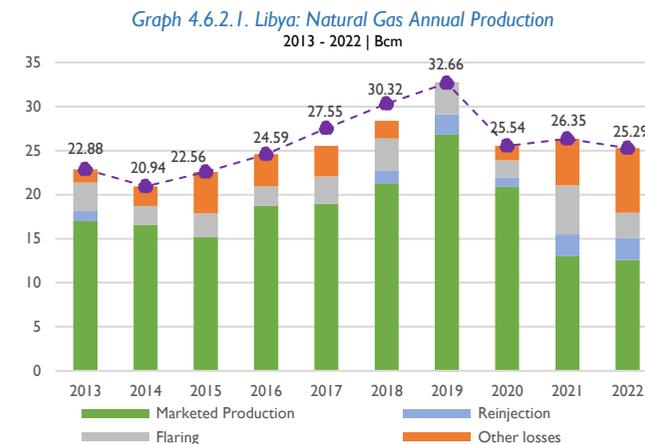
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	1,506	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505

Table 4.6.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	22.88	20.94	22.56	24.59	27.55	30.32	32.66	25.54	26.35	25.29
<b>Marketed Production</b>	16.99	16.59	15.15	18.72	18.97	21.29	26.83	20.93	13.01	12.57
<b>Reinjection</b>	1.15	0.00	0.00	0.00	0.00	1.49	2.27	0.98	2.47	2.52
<b>Flaring</b>	3.25	2.12	2.70	2.21	3.09	3.61	3.67	1.98	5.58	2.86
<b>Other losses</b>	1.49	2.23	4.71	3.65	3.48	1.99	-0.10	1.65	5.29	7.34

Table 4.6.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	2336.80	1921.51	2210.86	2153.50	1878.75	1632.23	1764.51	2372.60	2274.20	2320.27	2103.23	2324.66
<b>Marketed Production</b>	1152.25	932.90	1061.25	1040.53	995.95	925.58	953.72	1133.62	1118.03	1131.26	992.03	1132.00



## 4.6.3 Domestic Consumption and Trade

Table 4.6.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Residential</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.24
<b>Industrial</b>	1.31	0.76	0.76	0.63	0.59	0.67	0.92	0.74	0.79	0.84
<b>Power Generation</b>	7.77	6.69	7.14	7.36	7.13	7.20	7.47	6.95	8.55	8.58
<b>Petrochemical (feedstock)</b>	0.72	1.01	0.67	0.46	0.44	0.44	0.00	0.00	0.41	0.42
<b>Refineries</b>	0.36	0.36	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Totals</b>	10.16	8.82	8.73	7.99	8.16	8.32	8.40	7.70	9.94	10.09

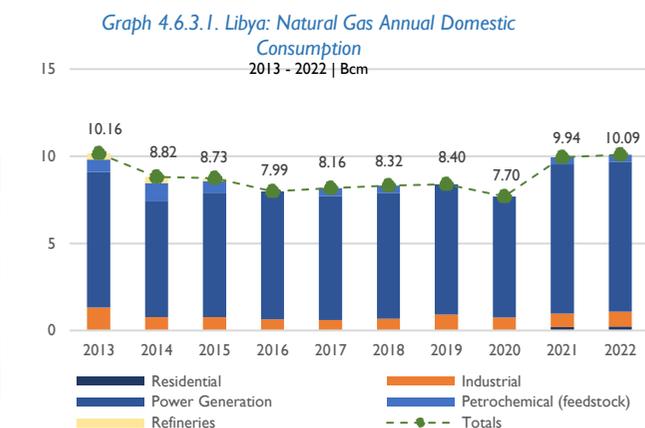


Table 4.6.3.2 Historical Trade: Natural Gas Exports

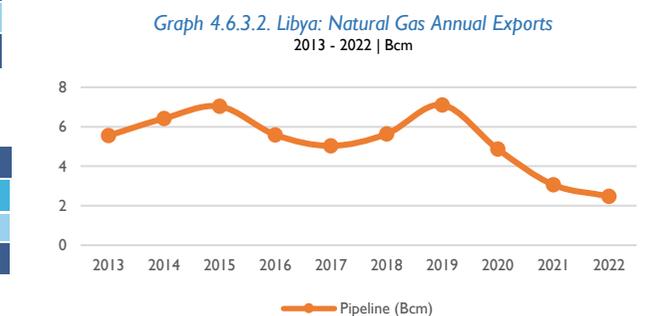
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	5.55	6.42	7.03	5.60	5.04	5.63	7.11	4.87	3.07	2.48
<b>Totals (Bcm)</b>	5.55	6.42	7.03	5.60	5.04	5.63	7.11	4.87	3.07	2.48

\* Gas equivalent

Table 4.6.3.3 Detailed 2022 Trade: Natural Gas Exports

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	215.52	104.16	154.89	237.73	224.30	178.08	190.64	181.83	168.68	279.61	257.90	285.21
<b>Totals (MMcm)</b>	215.52	104.16	154.89	237.73	224.30	178.08	190.64	181.83	168.68	279.61	257.90	285.21

\* Gas equivalent



## 4.6.4 Transport and Plants

Table 4.6.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>Green Stream</b>	Libya	Sicily	-	Green Stream	Green Stream	Operational	11.0	Export	2004	520	32

Table 4.6.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Marsa al Brega</b>	1	3.2	Decommissioned	1960	Libya NOC	Sirte Oil Company



Federal Republic of  
**NIGERIA**

AREA: **923,770 km<sup>2</sup>**



POPULATION  
**211,062,320**



CAPITAL  
**ABUJA**



CONTINENT  
**AFRICA**



CURRENCY  
**NIGERIAN NAIRA**



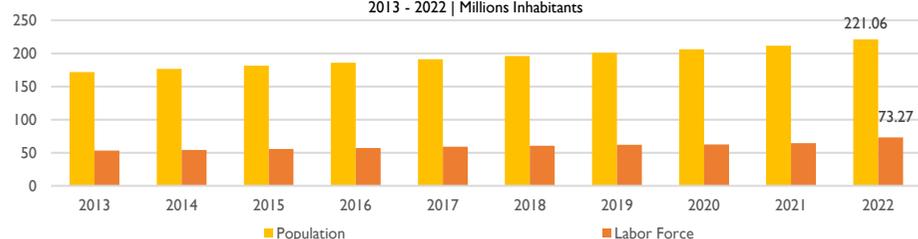
TIME ZONE  
**WEST AFRICA (GMT+1)**

## 4.7.1 Macroeconomics

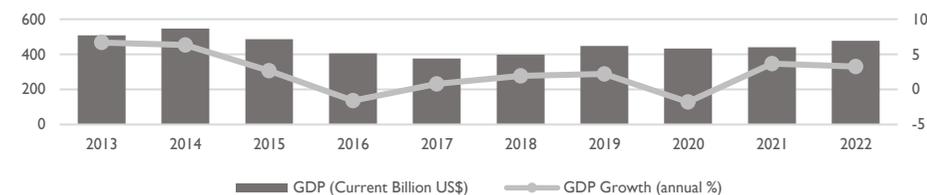
Table 4.7.1.1 Nigeria Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	171,765,819	176,404,931	181,137,454	185,960,244	190,873,247	195,874,685	200,963,603	206,139,587	211,400,704	221,062,320
<b>Labor Force (Inhabitants)</b>	52,957,798	54,348,205	55,815,157	57,266,041	58,814,727	60,448,885	62,151,626	62,259,271	64,479,317	73,272,344
<b>GDP (Current Billion US\$)</b>	508.69	546.68	486.80	404.65	375.75	397.19	448.12	432.29	440.78	477.39
<b>GDP Growth (annual %)</b>	6.67	6.31	2.65	-1.62	0.81	1.92	2.21	-1.79	3.65	3.25
<b>GDP per capita (Current US\$)</b>	2,961.55	3,098.99	2,687.48	2,176.00	1,968.57	2,027.78	2,229.86	2,097.09	2,085.03	2,184.42
<b>Exports of Goods and Services (Current Billion US\$)</b>	91.82	100.78	51.92	37.30	49.49	61.55	63.73	35.08	47.34	NA
<b>Exports of Goods and Services (% of GDP)</b>	18.05	18.44	10.67	9.22	13.17	15.50	14.22	8.12	10.74	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	66.12	68.06	51.92	46.55	49.51	69.55	88.74	35.59	47.34	NA
<b>Imports of Goods and Services (% of GDP)</b>	13.00	12.45	10.67	11.50	13.18	17.51	19.80	8.23	11.84	NA
<b>Inflation consumer prices (annual %)</b>	8.48	8.06	9.01	15.68	16.52	12.09	11.40	13.25	16.95	18.85
<b>Energy use (kg of oil equivalent per capita)</b>	780.14	763.63	NA							
<b>Natural Gas use (Scm per capita)</b>	44.83	43.82	61.32	47.74	58.00	62.13	60.19	63.97	65.55	58.68

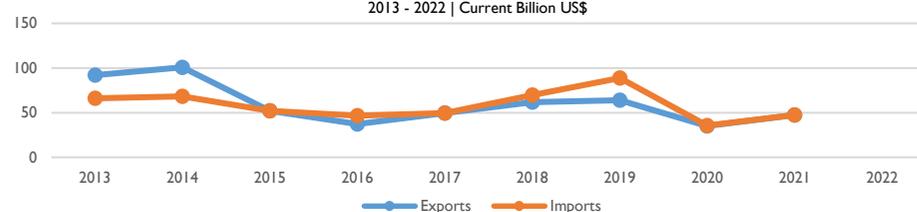
Graph 4.7.1.1. Nigeria: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



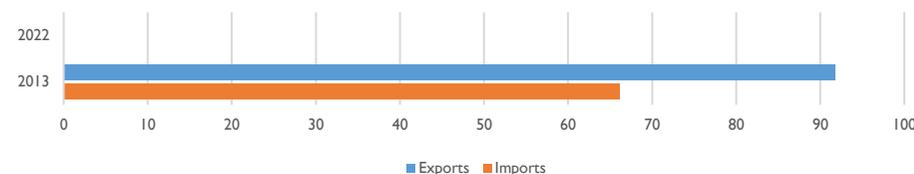
Graph 4.7.1.2. Nigeria: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.7.1.3. Nigeria: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



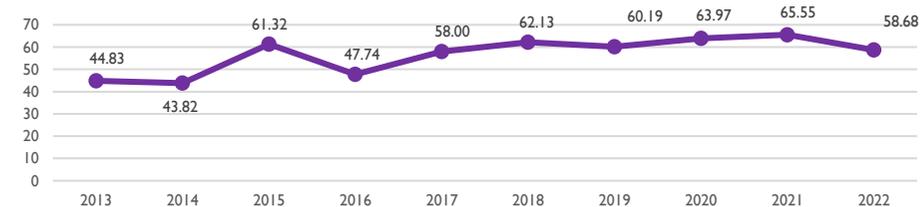
Graph 4.7.1.4. Nigeria: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.7.1.5. Nigeria: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.7.1.6. Nigeria: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 4.7.2 Reserves and Production

Table 4.7.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	5,108	5,303	5,280	5,475	5,627	5,685	5,761	5,750	5,848	5913

Table 4.7.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	79.63	86.33	80.89	72.95	79.49	80.27	81.05	77.23	71.47	66.50
<b>Marketed Production</b>	38.41	43.84	45.90	41.01	45.79	46.97	47.70	47.94	45.68	42.10
<b>Reinjection</b>	21.47	22.89	23.17	21.20	21.68	21.51	22.32	19.76	16.67	16.85
<b>Flaring</b>	12.11	10.74	7.68	6.90	8.14	7.98	6.86	5.47	5.73	4.50
<b>Other losses</b>	7.64	8.85	9.35	6.70	3.88	3.81	4.16	4.06	3.38	3.05

Table 4.7.2.3 Detailed 2021 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	6284.02	5646.70	5856.12	5696.51	5490.20	5540.57	5784.52	5085.51	5119.47	5378.98	5341.06	5277.10
<b>Marketed Production</b>	4064.73	3695.41	3772.67	3632.02	3671.93	3560.42	3594.38	3055.55	3174.41	3206.67	3285.91	3385.25

## 4.7.3 Domestic Consumption and Trade

Table 4.7.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Industrial</b>	2.23	2.31	3.56	3.33	4.21	4.60	5.29	5.25	6.27	6.16
<b>Power Generation</b>	4.88	4.96	7.20	5.36	6.86	7.57	6.81	7.42	7.59	6.82
<b>Petrochemical (feedstock)</b>	0.47	0.35	0.27	0.06	0.00	0.00	0.00	0.00	0.00	0.00
<b>Refineries</b>	0.11	0.11	0.08	0.13	0.00	0.00	0.00	0.00	0.00	0.00
<b>Others</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00
<b>Totals</b>	<b>7.70</b>	<b>7.73</b>	<b>11.11</b>	<b>8.88</b>	<b>11.07</b>	<b>12.17</b>	<b>12.10</b>	<b>13.19</b>	<b>13.86</b>	<b>12.97</b>

Table 4.7.3.2 Historical Trade: Natural Gas Exports

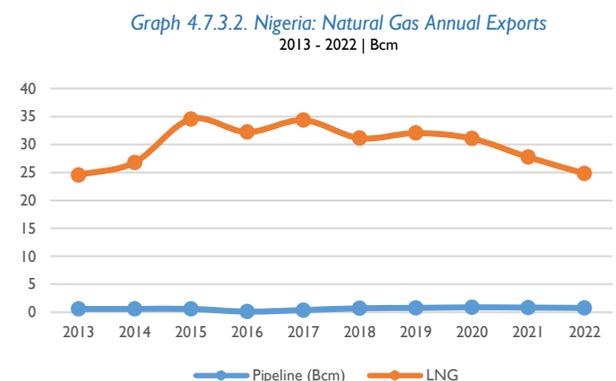
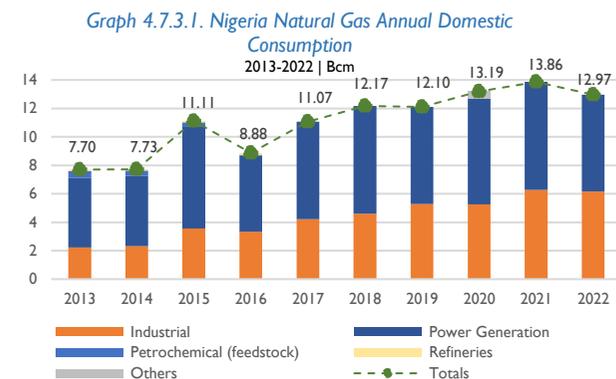
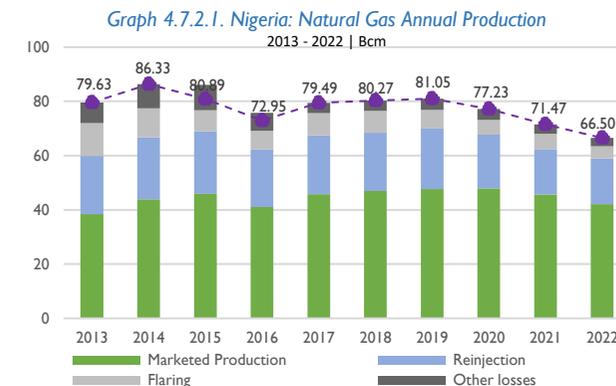
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	0.60	0.60	0.60	0.12	0.39	0.72	0.79	0.89	0.84	0.79
<b>LNG</b>										
Bcm*	24.54	26.78	34.52	32.20	34.33	31.11	32.02	31.04	27.72	24.80
MMT	18.04	19.69	25.38	23.68	25.24	22.88	23.54	22.82	20.38	18.24
<b>Totals (Bcm)</b>	<b>25.14</b>	<b>27.38</b>	<b>35.12</b>	<b>32.32</b>	<b>34.72</b>	<b>31.83</b>	<b>32.81</b>	<b>31.93</b>	<b>28.56</b>	<b>25.59</b>

\* Gas equivalent

Table 4.7.3.3 Detailed 2022 Trade: Natural Gas Exports

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	59.15	64.24	89.43	71.88	70.75	79.81	65.94	67.07	36.79	44.15	72.73	63.11
<b>LNG</b>												
MMcm*	2733.50	2301.36	2279.85	2241.93	2245.89	2210.51	2151.65	1658.95	1781.49	1726.87	1723.75	1744.98
1000MT	2009.92	1692.17	1676.36	1648.48	1651.39	1625.38	1582.09	1219.81	1309.92	1269.75	1267.47	1283.07
<b>Totals (MMcm)</b>	<b>2792.64</b>	<b>2365.60</b>	<b>2369.28</b>	<b>2313.81</b>	<b>2316.64</b>	<b>2290.32</b>	<b>2217.59</b>	<b>1726.02</b>	<b>1818.28</b>	<b>1771.01</b>	<b>1796.48</b>	<b>1808.09</b>

\* Gas equivalent



## 4.7.4 Transport and Plants

Table 4.7.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>West African Gas Pipeline</b>	Nigeria	Ghana	Benin-Togo	WAGP	Chevron	Operational	5	Export	2006	678	20

Table 4.7.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
LNG Edo	Bonny Gas Transport	1980	126.50
LNG Rivers	Bonny Gas Transport	2002	137.20
LNG Sokoto	Bonny Gas Transport	2002	137.20
LNG Bayelsa	Bonny Gas Transport	2003	137.50
LNG Akwa Ibom	Bonny Gas Transport	2004	141.00
LNG River Orashi	BW Gas	2004	145.91
LNG Adamawa	Bonny Gas Transport	2005	141.00
LNG Cross River	Bonny Gas Transport	2005	141.00
LNG Enugu	BW Gas	2005	145.00
LNG Oyo	BW Gas	2005	140.50
LNG River Niger	Bonny Gas Transport	2006	141.00
LNG Benue	BW Gas	2006	145.70
LNG Lokoja	BW Gas	2006	148.30
LNG Borno	NYK Line	2007	149.60
LNG Ogun	NYK Line	2007	149.60
LNG Kano	BW Gas	2007	148.30
LNG Ondo	BW Gas	2007	148.30
LNG Imo	BW Gas	2008	148.30
LNG Bonny II	Bonny Gas Transport	2015	133.00
LNG Finima II	Bonny Gas Transport	2015	133.00
LNG Lagos II	Bonny Gas Transport	2015	122.00
LNG Port-Harcourt II	Bonny Gas Transport	2015	122.00
LNG Abuja II	Bonny Gas Transport	2016	126.50
<b>Total</b>			<b>3,208,41</b>

Table 4.7.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>NLNG 1 &amp; 2</b>	2	7.0	Operational	1999	Nigeria LNG	Nigeria LNG
<b>NLNG 3</b>	1	3.3	Operational	2002	Nigeria LNG	Nigeria LNG
<b>NLNG 4</b>	1	4.1	Operational	2005	Nigeria LNG	Nigeria LNG
<b>NLNG 5</b>	1	4.1	Operational	2006	Nigeria LNG	Nigeria LNG
<b>NLNG 6</b>	1	4.1	Operational	2007	Nigeria LNG	Nigeria LNG
<b>NLNG 7</b>	1	7.0	Under Construction	2024	Nigeria LNG	Nigeria LNG
<b>NLNG 8</b>	1	NA	Planned	NA	Nigeria LNG	Nigeria LNG
<b>Yoho FLNG</b>	1	1.2	Announced	2025	Yoho FLNG	Yoho FLNG
<b>Total Expected Capacity</b>		<b>30.8</b>				



State of  
**QATAR**

AREA: **11,610 km<sup>2</sup>**



POPULATION  
**2,695,122**



CAPITAL  
**DOHA**



CONTINENT  
**MIDDLE EAST**



CURRENCY  
**QATARI RIYAL**



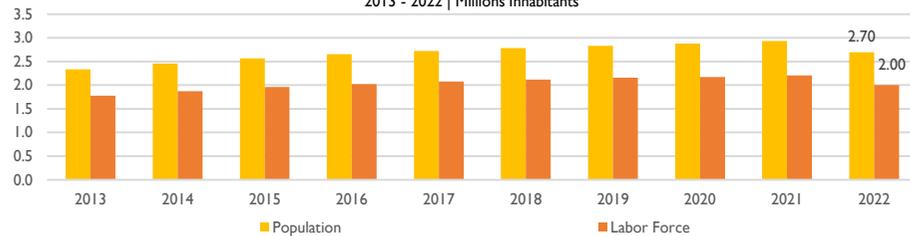
TIME ZONE  
**ARABIA (GMT+3)**

## 4.8.I Macroeconomics

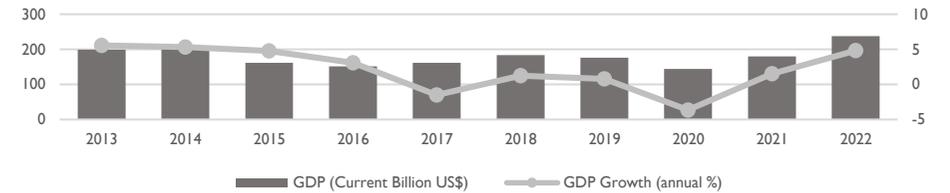
Table 4.8.1.1 Qatar Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	2,336,579	2,459,202	2,565,708	2,654,379	2,724,727	2,781,682	2,832,071	2,881,060	2,930,524	2,695,122
<b>Labor Force (Inhabitants)</b>	1,774,951	1,872,348	1,960,129	2,024,649	2,077,316	2,120,699	2,160,943	2,174,828	2,208,868	2,003,258
<b>GDP (Current Billion US\$)</b>	198.73	206.22	161.74	151.73	161.10	183.33	175.84	144.41	179.57	237.29
<b>GDP Growth (annual %)</b>	5.56	5.33	4.75	3.06	-1.50	1.23	0.77	-3.64	1.52	4.83
<b>GDP per capita (Current US\$)</b>	85,050.68	83,858.34	63,039.11	57,162.97	59,124.87	65,907.95	62,087.97	50,124.39	61,276.00	88,046.32
<b>Exports of Goods and Services (Current Billion US\$)</b>	144.51	140.23	92.29	72.40	85.20	102.56	92.05	70.93	105.86	NA
<b>Exports of Goods and Services (% of GDP)</b>	72.72	68.00	57.06	47.71	52.89	55.94	52.35	49.12	58.91	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	58.95	64.00	59.27	63.48	62.19	65.81	66.77	59.06	61.33	NA
<b>Imports of Goods and Services (% of GDP)</b>	29.67	31.04	36.65	41.83	38.61	35.90	37.97	40.90	34.13	NA
<b>Inflation consumer prices (annual %)</b>	3.22	3.35	1.81	2.68	0.39	0.26	-0.67	-2.54	2.30	5.00
<b>Energy use (kg of oil equivalent per capita)</b>	17,266.10	17,922.70	NA							
<b>Natural Gas use (Scm per capita)</b>	16,378.03	16,476.83	15,960.51	14,579.68	13,954.35	14,710.33	14,662.95	14,052.61	13,226.66	13,802.71

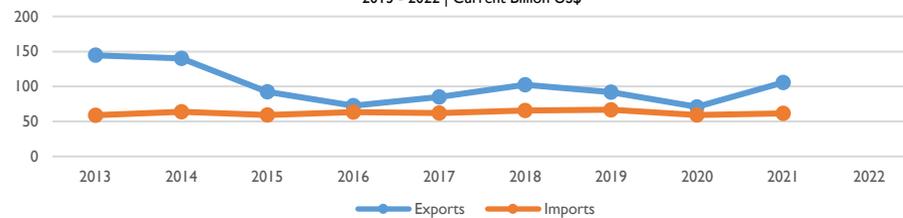
Graph 4.8.1.1. Qatar: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



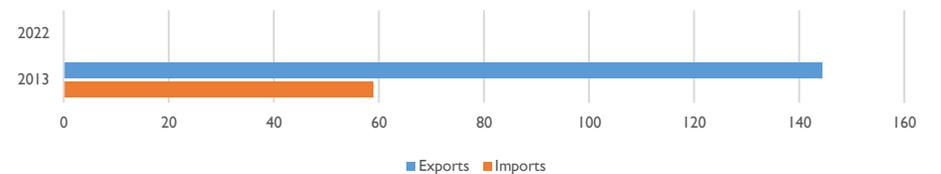
Graph 4.8.1.2. Qatar: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.8.1.3. Qatar: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



Graph 4.8.1.4. Qatar: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.8.1.5. Qatar: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.8.1.6. Qatar: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 4.8.2 Reserves and Production

Table 4.8.2.1 Proven Natural Gas Reserves (Bcm)

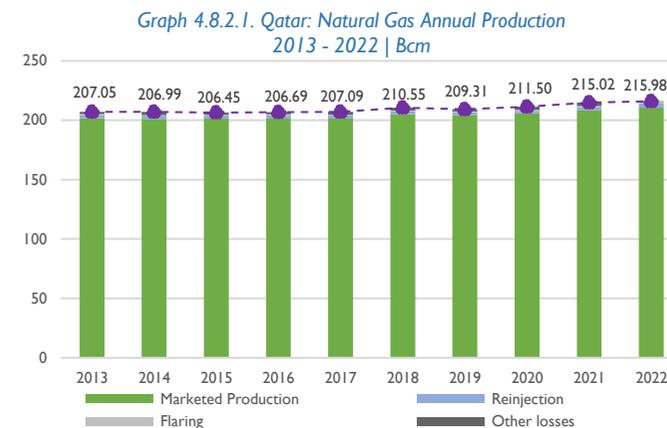
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	24,681	24,531	24,299	24,073	23,861	23,846	23,831	23,831	23,831	23,831

Table 4.8.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	207.05	206.99	206.45	206.69	207.09	210.55	209.31	211.50	215.02	215.98
<b>Marketed Production</b>	201.78	201.13	201.27	201.37	201.35	205.17	204.43	205.72	208.74	210.49
<b>Reinjection</b>	2.71	2.65	2.53	2.74	2.66	2.25	2.28	2.20	2.20	3.72
<b>Flaring</b>	0.74	0.71	0.72	0.72	0.69	0.60	0.70	1.10	1.10	1.21
<b>Other losses</b>	1.82	2.50	1.92	1.86	2.39	2.53	1.90	2.48	2.98	0.56

Table 4.8.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	18483.67	14024.49	17136.37	18795.74	17877.18	18392.42	19027.06	18964.46	18119.61	19097.55	18329.93	17733.50
<b>Marketed Production</b>	17872.46	13504.19	16645.27	18227.84	18227.84	17922.87	18483.43	18424.61	17658.67	18588.77	17787.80	17145.63



## 4.8.3 Domestic Consumption and Trade

Table 4.8.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Totals</b>	38.27	40.52	40.95	38.70	38.02	40.92	41.53	40.49	38.76	42.00

Table 4.8.3.2 Historical Trade: Natural Gas Exports

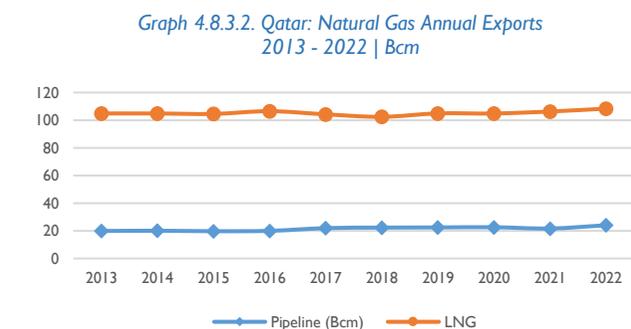
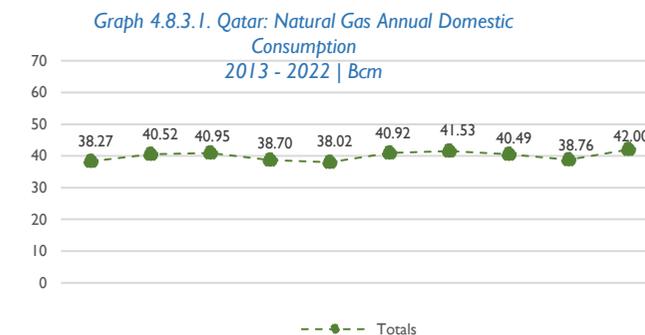
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>Pipeline (Bcm)</b>	19.90	20.09	19.75	20.00	21.96	22.36	22.45	22.62	21.68	24.04	
<b>LNG</b>	Bcm*	104.87	104.83	104.53	106.52	104.23	102.41	104.89	104.84	106.27	108.37
	MMT	77.11	77.08	76.86	78.32	76.64	75.30	77.13	77.09	78.14	79.68
<b>Totals (Bcm)</b>	124.77	124.92	124.28	126.52	126.19	124.77	127.34	127.46	127.95	132.41	

\* Gas equivalent

Table 4.8.3.3 Detailed 2022 Trade: Natural Gas Exports

	2022												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Gross Production</b>	1660.03	1157.72	2139.18	2169.37	2199.77	2103.76	2200.04	2188.67	2210.46	2210.46	1987.22	1815.35	
<b>LNG</b>	MMcm*	9679.99	8028.67	8455.77	9622.89	8293.78	9254.02	9154.29	9017.64	9378.58	9378.58	9359.60	8746.89
	1000MT	7117.64	5903.44	6217.48	7075.65	6098.37	6804.43	6731.10	6630.62	6896.01	6896.01	6882.06	6431.54
<b>Totals (MMcm)</b>	11340.02	9186.39	10594.95	11792.26	10493.55	11357.78	11354.33	11206.31	11589.03	11589.03	11346.82	10562.24	

\* Gas equivalent



## 4.8.4 Transport and Plants

Table 4.8.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Dolphin	Qatar	United Arab Emirates, Oman	-	Dolphin Energy	Dolphin Energy	Operational	33.1	Export	2007	364	48

Table 4.8.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Al Ghashamiya	Nakilat	2009	217.59
Sheehaniya	Nakilat	2009	210.20
Mesaimmeer	Nakilat	2009	216.31
Onaiza	Nakilat	2009	210.15
Al Gattara	Nakilat	2007	216.20
Al Gharrafa	Nakilat	2008	216.20
Al Hamla	Nakilat	2008	216.20
Tembek	Nakilat	2007	216.20
Al Dafna	Nakilat	2009	266.37
Al Ghuwairiya	Nakilat	2008	263.30
Al Mafyar	Nakilat	2009	266.37
Mekaines	Nakilat	2009	266.48
Mozah	Nakilat	2008	266.25
Umm Slal	Nakilat	2008	265.98
Al Kharaitiyat	Nakilat	2009	216.30
Al Rekayyat	Nakilat	2009	216.29
Al Sadd	Nakilat	2009	210.20
Al Mayeda	Nakilat	2009	266.00
Al Samriya	Nakilat	2009	263.30
Bu Samra	Nakilat	2008	266.00
Lijmiliya	Nakilat	2009	263.30
Al Bahiya	Nakilat	2009	210.10
Al Karaana	Nakilat	2009	210.10
Al Khattiya	Nakilat	2009	210.15
Al Nuaman	Nakilat	2009	210.10
Aamira	Nakilat	2010	266.00
Rasheeda	Nakilat	2010	266.00
Shagra	Nakilat	2009	266.28
Zarga	Nakilat	2010	266.00
Al Oraiq	Nakilat/"K" Line	2008	210.10
Umm Al Amad	Nakilat/"K" Line	2008	210.10
Al Jassasiya	Nakilat/Maran Gas	2007	145.70
Maran Gas Achilles	Nakilat/Maran Gas	2016	174.00
Al Ghariya	Nakilat/Pronav	2008	210.15
Al Ruwais	Nakilat/Pronav	2007	210.15
Al Safliya	Nakilat/Pronav	2007	210.15
Duhail	Nakilat/Pronav	2008	210.15
Aseem	Nakilat/SCI	2009	155.00
Al Marrouna	Nakilat/Teekay	2006	149.54
Al Areesh	Nakilat/Teekay	2007	148.79
<b>Sub Totals</b>			<b>8,953.75</b>
<b>Total</b>			<b>16,150.32</b>

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Maran Gas Alexandria	Nakilat/Maran Gas	2015	161.87
Maran Gas Apollonia	Nakilat/Maran Gas	2014	161.87
Maran Gas Asciepius	Nakilat/Maran Gas	2008	145.82
Maran Gas Coronis	Nakilat/Maran Gas	2012	145.70
Maran Gas Delphi	Nakilat/Maran Gas	2014	159.80
Maran Gas Efessos	Nakilat/Maran Gas	2014	159.80
Maran Gas Lindos	Nakilat/Maran Gas	2015	161.87
Maran Gas Posidonia	Nakilat/Maran Gas	2014	161.87
Maran Gas Sparta	Nakilat/Maran Gas	2015	159.80
Simaisma	Nakilat/Maran Gas	2006	145.89
Umm Bab	Nakilat/Maran Gas	2005	145.00
Woodside Goode	Nakilat/Maran Gas	2013	159.80
Woodside Rogers	Nakilat/Maran Gas	2013	159.80
Al Aamriya	Nakilat/MOL	2008	210.17
Fraiha	Nakilat/MOL	2008	210.10
Murwab	Nakilat/MOL	2008	210.10
Al Sahla	Nakilat/NYK	2008	216.20
Al Thumama	Nakilat/NYK	2008	216.20
Al Utouriya	Nakilat/NYK	2008	215.00
Ejnan	Nakilat/NYK	2007	145.00
Simaisma	Nakilat/Maran Gas	2006	145.89
Umm Bab	Nakilat/Maran Gas	2005	145.00
Woodside Goode	Nakilat/Maran Gas	2013	159.80
Woodside Rogers	Nakilat/Maran Gas	2013	159.80
Al Aamriya	Nakilat/MOL	2008	210.17
Fraiha	Nakilat/MOL	2008	210.10
Murwab	Nakilat/MOL	2008	210.10
Al Sahla	Nakilat/NYK	2008	216.20
Al Thumama	Nakilat/NYK	2008	216.20
Al Utouriya	Nakilat/NYK	2008	215.00
Ejnan	Nakilat/NYK	2007	145.00
Al Daayen	Nakilat/Teekay	2008	148.85
Al Huwaila	Nakilat/Teekay	2008	217.00
Al Kharsaah	Nakilat/Teekay	2008	217.00
Al Khuwair	Nakilat/Teekay	2006	217.00
Al Shamal	Nakilat/Teekay	2008	217.00
Global Energy	Nakilat/Maran Gas	2020	173.40
Global Star	Nakilat/Maran Gas	2021	173.40
Hull no. 2502	Nakilat/Maran Gas	-	174.00
Hull no. 2503	Nakilat/Maran Gas	-	174.00
<b>Sub Totals</b>			<b>7,196.57</b>
<b>Total</b>			<b>16,150.32</b>

Table 4.8.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Qatargas 1</b>	3	9.9	Operational	1996 1997 1998	QatarEnergy in 2022	Qatargas
<b>Qatargas 2</b>	2	15.6	Operational	2009	QatarEnergy, ExxonMobil, TotalEnergies	Qatargas
<b>Qatargas 3</b>	1	7.8	Operational	2010	QatarEnergy, ConocoPhillips, Mitsui	Qatargas
<b>Qatargas 4</b>	1	7.8	Operational	2011	QatarEnergy, ExxonMobil, TotalEnergies	Qatargas
<b>Raslaffan</b>	2	6.6	Operational	1999	QatarEnergy, ConocoPhillips, Mitsui	Qatargas
<b>Raslaffan (II)</b>	3	14.1	Operational	2004	QatarEnergy, Shell	Qatargas
<b>Raslaffan 3</b>	2	15.6	Operational	2010	QatarEnergy, ExxonMobil, Korea Ras Laffan LNG, Itochu, LNG Japan	Qatargas
<b>North Field Expansion I</b>	4	33.0	Under Construction	2025	QatarEnergy, ExxonMobil, OPIC Middle East Natural Gas	Construction Phase
<b>North Field Expansion 2</b>	2	16.0	Project	2027	QatarEnergy, ExxonMobil	Project Phase
<b>Total Expected Capacity</b>		<b>126.4</b>				





Russian Federation

**RUSSIA**

AREA: **17,098,250 km<sup>2</sup>**



POPULATION  
**146,447,424**



CAPITAL  
**MOSCOW**



CONTINENT  
**EUROASIA**



CURRENCY  
**RUSSIAN RUBLE**



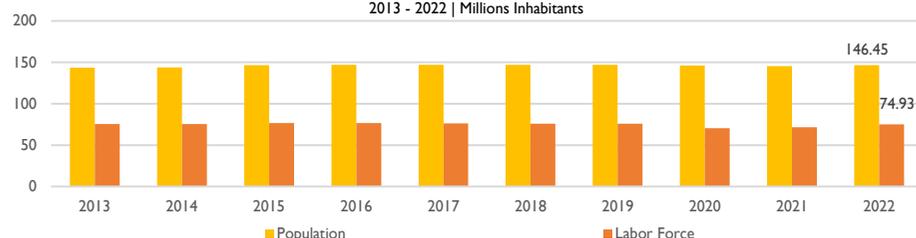
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## 4.9.I Macroeconomics

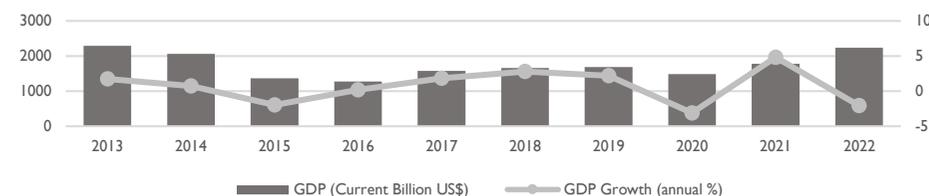
Table 4.9.I.1 Russia Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	143,506,995	143,700,000	146,500,000	146,800,000	146,900,000	146,900,000	146,800,000	146,300,000	145,557,576	146,447,424
<b>Labor Force (Inhabitants)</b>	75,529,000	75,428,000	76,588,000	76,636,000	76,109,000	76,011,000	75,878,000	70,600,000	71,766,617	74,933,330
<b>GDP (Current Billion US\$)</b>	2,292.47	2,059.24	1,363.48	1,276.79	1,574.20	1,657.33	1,687.45	1,483.50	1,775.80	2,240.42
<b>GDP Growth (annual %)</b>	1.76	0.74	-1.97	0.19	1.83	2.81	2.20	-3.10	4.82	-2.07
<b>GDP per capita (Current US\$)</b>	15,974.64	14,095.65	9,313.01	8,704.90	10,720.33	11,287.36	11,497.65	10,126.72	12,172.79	15,345.10
<b>Exports of Goods and Services (Current Billion US\$)</b>	592.50	558.28	391.37	330.11	410.72	510.35	481.54	378.64	547.74	631.55
<b>Exports of Goods and Services (% of GDP)</b>	25.85	27.11	28.70	25.85	26.09	30.79	28.54	25.52	30.84	28.19
<b>Imports of Goods and Services (Current Billion US\$)</b>	468.62	426.06	281.64	263.83	327.21	344.52	352.81	305.01	378.03	349.17
<b>Imports of Goods and Services (% of GDP)</b>	20.44	20.69	20.66	20.66	20.79	20.79	20.91	20.56	21.29	15.59
<b>Inflation consumer prices (annual %)</b>	6.47	11.35	12.91	7.04	2.51	4.26	3.04	3.38	6.69	NA
<b>Energy use (kg of oil equivalent per capita)</b>	5,078.63	4,942.88	NA							
<b>Natural Gas use (Scm per capita)</b>	2,960.16	2,968.23	2,801.95	2,847.27	2,940.68	3,081.90	3,033.42	2,921.30	3,295.25	3,322.69

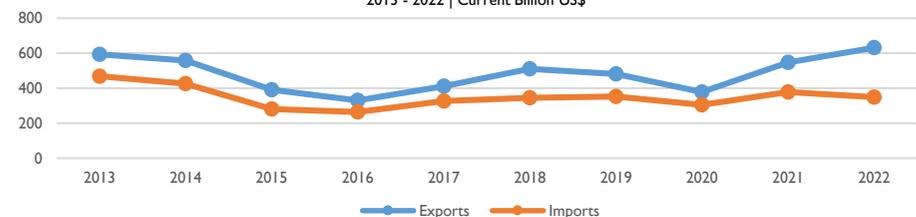
Graph 4.9.I.1. Russia: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



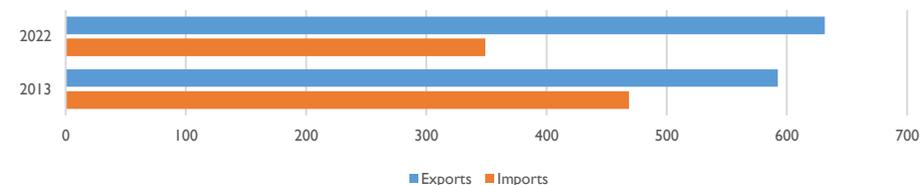
Graph 4.9.I.2. Russia: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 4.9.I.3. Russia: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



Graph 4.9.I.4. Russia: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.9.I.5. Russia: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.9.I.6. Russia: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 4.9.2 Reserves and Production

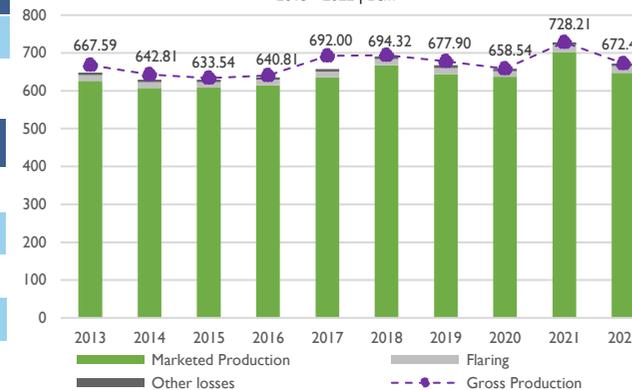
Table 4.9.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	49,335	49,896	50,205	50,617	50,508	49,571	49,154	47,759	47,759	47,759

Table 4.9.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	667.59	642.81	633.54	640.81	692.00	694.32	677.90	658.54	728.21	672.40
<b>Marketed Production</b>	626.29	607.08	608.43	614.56	635.78	667.66	644.09	637.16	701.55	647.33
<b>Flaring</b>	15.33	15.67	14.51	14.60	15.12	15.85	16.45	14.80	19.70	18.04
<b>Other losses</b>	6.76	6.59	6.76	6.59	7.04	7.24	7.17	6.58	6.96	7.03

Graph 4.9.2.1. Russia: Natural Gas Annual Production  
2013 - 2022 | Bcm



## 4.9.3 Domestic Consumption and Trade

Table 4.9.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Totals</b>	466.00	465.00	445.00	444.00	463.00	489.00	501.00	412.97	472.69	486.60

Graph 4.9.3.1. Russia: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Table 4.9.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	196.40	172.60	185.50	198.70	212.80	222.62	211.29	199.20	195.90	128.94
<b>LNG</b>	Bcm*	16.20	12.63	13.18	14.91	15.03	25.48	39.90	39.65	40.97
	MMT	11.91	9.29	9.69	10.96	11.05	18.74	29.34	29.15	30.13
<b>Totals (Bcm)</b>	212.60	185.23	198.68	213.61	227.83	248.10	248.30	239.45	235.55	169.91

\* Gas equivalent

Graph 4.9.3.2. Russia: Natural Gas Exports and Imports  
2013 - 2022 | Bcm

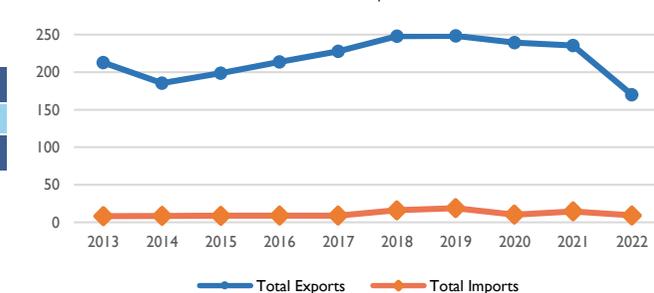


Table 4.9.3.3 Historical Trade: Natural Gas Imports (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	8.23	8.58	8.84	8.93	8.94	15.97	18.83	10.25	14.58	9.18
<b>Totals (Bcm)</b>	8.23	8.58	8.84	8.93	8.94	15.97	18.83	10.25	14.58	9.18

## 4.9.4 Transport and Plants

Table 4.9.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>Urengoy-Pomary-Uzhgorod</b>	Russia	Europe	Ukraine	Gazprom	Gazprom	Operational	32.0	Export	1983	4,451	56
<b>Blue Stream</b>	Russia	Turkey	-	Gazprom, Blue Stream Pipeline Company BV	Gazprom, Blue Stream Pipeline Company BV	Operational	16.0	Export	2003	1,213	55/47
<b>Yamal Europe</b>	Russia	Europe (Poland Germany)	Belarus	Gazprom, EuRoPol Gaz, WINGAS	Gazprom	Operational	32.9	Export	2006	2,000	56
<b>Nord Stream</b>	Russia	Germany	-	Nord Stream AG JV	Nord Stream AG JV	Operational	55.0	Export	2011	1,224	48
<b>Minsk-Vilnius-Kaunas-Kaliningrad</b>	Russia	Russia	Belarus, Lithuania	Gazprom	Gazprom	Operational	2.5	Export	2011	155	20
<b>Nord Stream 2</b>	Russia	Germany	-	Nord Stream 2 AG	Nord Stream 2 AG	Completed	55.0	Export	NA	1,200	48
<b>TurkStream</b>	Russia	Turkey	-	Gazprom	Gazprom	Operational	31.5	Export	2020	3000	32
<b>Power of Siberia</b>	Russia	China	-	Gazprom	Gazprom	Operational	38.0	Export	2019	3,000	56
<b>Total Existing Capacity</b>							<b>262.9</b>				

Table 4.9.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Lena River	Gazprom	2013	154.88
Yenisei River	Gazprom	2013	154.88
Velikiy Novgorod	Gazprom	2014	170.20
Pskov	Gazprom	2014	170.20
SCF Mitre	Sovcomflot	2015	170.00
SCF Melampus	Sovcomflot	2015	170.20
Christophe de Margerie	Sovcomflot	2016	172.60
Marshal Vasilevskiy	Gazpromflot	2017	174.10
<b>Total</b>			<b>1337.06</b>

Table 4.9.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Sakhalin II</b>	2	9.6	Operational	2009	Sakhalin Energy	Sakhalin Energy
<b>Yamal LNG</b>	3	16.5	Operational	2017	Novatek	Novatek
<b>Krio-Vysotsk LNG</b>	2	0.7	Operational	2019	Novatek	Novatek
<b>Yamal LNG</b>	1	0.9	Operational	2021	Novatek	Novatek
<b>Arctic LNG</b>	3	19.8	Under Construction	2023/2025	Novatek	Novatek
<b>Portovaya LNG</b>	1	1.5	Operational	2022	Gazprom	Gazprom
<b>Baltic LNG</b>	2	13.0	Under Construction	2023/2024	Gazprom	Gazprom
<b>Sakhalin II</b>	1	5.4	Planned	2024	Sakhalin Energy	Sakhalin Energy
<b>Obskiy LNG</b>	2	5.0	Cancelled	-	-	-
<b>Total Expected Capacity</b>		<b>72.4</b>				

Table 4.9.4.4 Regasification Plants

Regasification Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Kaliningrad LNG</b>	2.7	Operational	2019	Gazprom	Gazprom



Republic of  
**TRINIDAD AND TOBAGO**

AREA: **5,130 km<sup>2</sup>**



POPULATION  
**1,531,044**



CAPITAL  
**PORT OF SPAIN**



CONTINENT  
**SOUTH AMERICAN  
CARIBBEAN SEA**



CURRENCY  
**TRINIDAD AND  
TOBAGO DOLLAR**



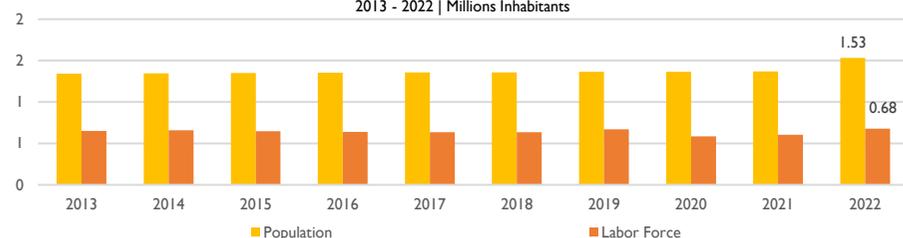
TIME ZONE  
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### 4.10.1 Macroeconomics

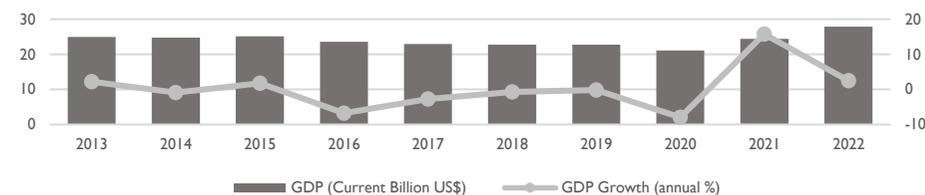
Table 4.10.1.1 Trinidad and Tobago Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	1,340,557	1,345,343	1,349,667	1,353,895	1,356,633	1,359,193	1,363,985	1,366,725	1,367,558	1,531,044
<b>Labor Force (Inhabitants)</b>	650,200	658,600	645,300	638,500	634,000	633,900	668,956	585,000	604,900	678,100
<b>GDP (Current Billion US\$)</b>	24.93	24.72	25.16	23.57	22.94	22.78	22.74	21.06	24.38	27.89
<b>GDP Growth (annual %)</b>	2.22	-0.86	1.75	-6.74	-2.76	-0.71	-0.17	-7.96	15.76	2.48
<b>GDP per capita (Current US\$)</b>	18,599.26	18,374.57	18,642.38	17,410.10	16,909.10	16,758.03	16,670.52	15,410.24	17,827.79	18,222.26
<b>Exports of Goods and Services (Current Billion US\$)</b>	17.91	15.30	11.73	8.50	9.64	10.76	8.76	6.00	11.08	NA
<b>Exports of Goods and Services (% of GDP)</b>	71.84	61.89	46.61	36.08	42.04	47.22	38.54	28.50	45.45	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	9.28	7.92	7.53	7.09	6.45	6.62	6.03	5.02	6.37	NA
<b>Imports of Goods and Services (% of GDP)</b>	37.20	32.04	29.93	30.07	28.12	29.05	26.53	23.83	26.13	NA
<b>Inflation consumer prices (annual %)</b>	5.20	5.70	4.70	3.10	1.90	1.00	1.00	0.60	2.10	NA
<b>Energy use (kg of oil equivalent per capita)</b>	14,478.85	14,363.57	NA							
<b>Natural Gas use (Scm per capita)</b>	12,663.01	12,390.23	12,329.53	11,121.73	10,865.13	11,098.99	11,138.85	9,707.85	10,653.45	9,223.51

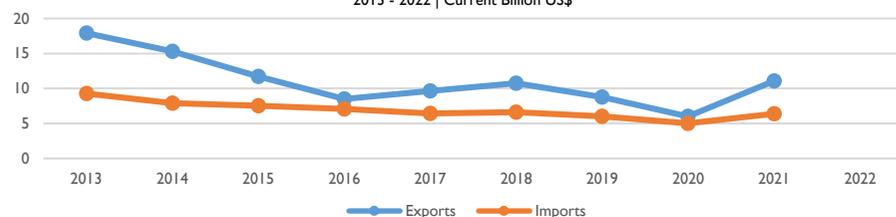
Graph 4.10.1.1. Trinidad and Tobago: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



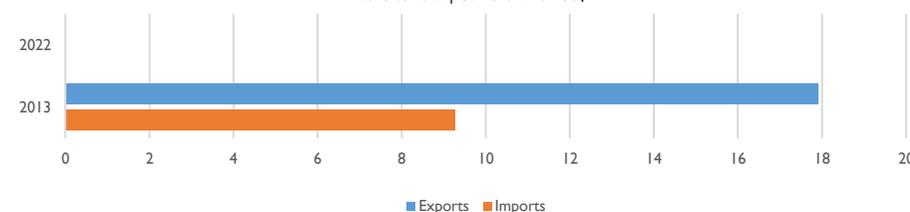
Graph 4.10.1.2. Trinidad and Tobago: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



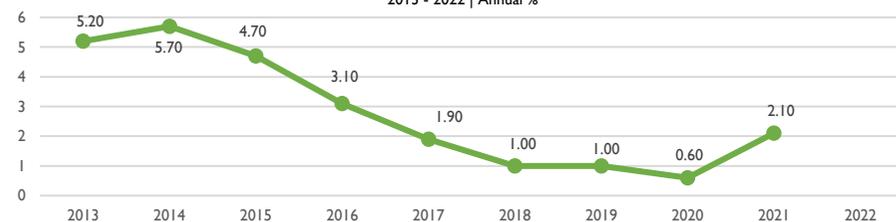
Graph 4.10.1.3. Trinidad and Tobago: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



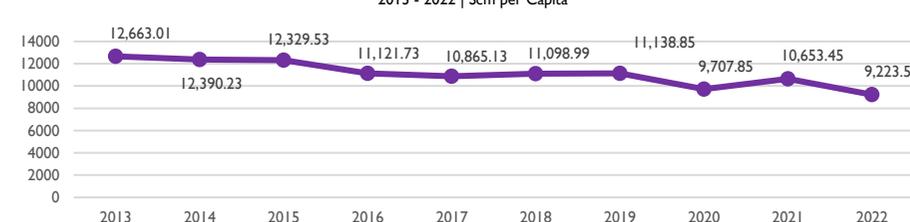
Graph 4.10.1.4. Trinidad and Tobago: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 4.10.1.5. Trinidad and Tobago: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 4.10.1.6. Trinidad and Tobago: Natural Gas Use  
2013 - 2022 | Scm per Capita



### 4.10.2 Reserves and Production

Table 4.10.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	347	326	300	281	298	298	302	290	NA	NA

Table 4.10.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	42.82	42.03	39.59	34.42	34.70	36.46	36.36	30.87	25.86	27.71
<b>Marketed Production</b>	39.51	38.99	36.94	32.18	32.78	34.92	35.37	30.16	25.50	27.52
<b>Reinjection</b>	1.81	1.61	1.47	1.36	0.74	1.06	0.90	0.64	0.27	0.09
<b>Flaring</b>	1.19	1.13	0.92	0.72	1.05	0.29	0.08	0.07	0.09	0.09
<b>Other losses</b>	0.31	0.30	0.26	0.16	0.13	0.19	0.00	0.00	0.00	0.00

Table 4.10.2.3 Detailed 2021 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	2526.62	2201.29	2208.16	1973.93	2228.34	2451.91	2508.20	2493.29	2407.76	2159.91	2234.57	2311.69
<b>Marketed Production</b>	2512.91	2189.46	2191.98	1962.55	2216.01	2441.92	2495.52	2464.97	2392.39	2147.56	2211.89	2297.05

### 4.10.3 Domestic Consumption and Trade

Table 4.10.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Industrial</b>	1.62	1.60	1.31	0.89	0.91	0.90	0.93	0.81	0.90	0.82
<b>Power Generation</b>	3.15	3.12	3.04	2.81	2.61	2.51	2.63	2.45	2.56	2.71
<b>Petrochemical (feedstock)</b>	11.50	11.38	11.50	10.58	10.85	10.98	11.63	9.99	11.11	10.52
<b>Refineries</b>	0.71	0.57	0.78	0.78	0.64	0.70	0.00	0.00	0.00	0.07
<b>Totals</b>	16.99	16.66	16.64	15.06	15.02	15.09	15.19	13.25	14.57	14.12

Table 4.10.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>LNG</b>	Bcm	19.00	18.85	16.90	14.27	13.05	16.67	16.90	8.94	10.59
	MMT	13.97	13.86	12.43	10.49	9.59	12.25	12.42	6.58	7.79
<b>Totals (Bcm)</b>	19.00	18.85	16.90	14.27	13.05	16.67	16.90	13.92	8.94	10.59

\* Gas equivalent

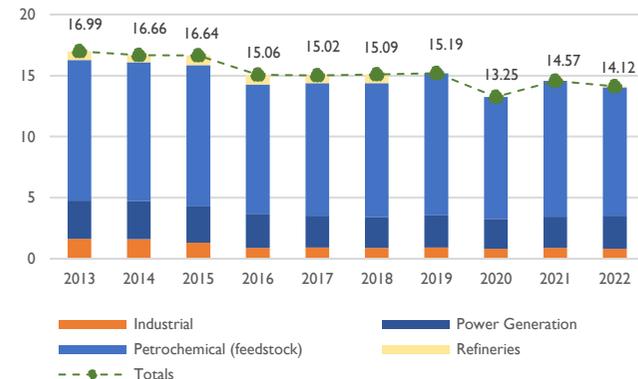
Table 4.10.3.3 Detailed 2021 Trade: Natural Gas Exports

		2022											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>LNG</b>	MMcm*	885.83	892.77	879.87	788.86	746.90	1026.32	899.69	1027.44	897.62	771.79	843.23	930.40
	1000MT	651.35	656.45	646.96	580.05	549.19	754.65	661.54	755.47	660.01	567.49	620.02	684.12
<b>Total (MMcm)</b>		885.83	892.77	879.87	788.86	746.90	1026.32	899.69	1027.44	897.62	771.79	843.23	930.40

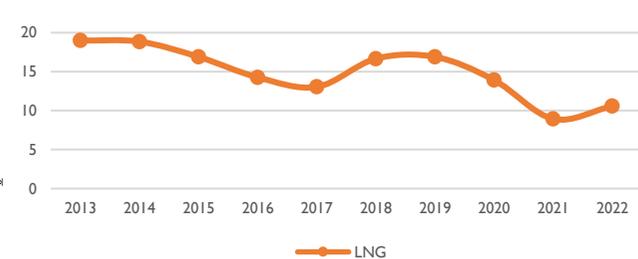
Graph 4.10.2.1. Trinidad and Tobago: Natural Gas Annual Production  
2013 - 2022 | Bcm



Graph 4.10.3.1. Trinidad and Tobago: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Graph 4.10.3.2. Trinidad and Tobago: Natural Gas Annual Exports  
2013 - 2022 | Bcm



### 4.10.4 Transport and Plants

Table 4.10.4.1 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Atlantic LNG</b>	4	14.8	Operational	1999 2002 2003 2005	Atlantic LNG	Atlantic LNG



# UNITED ARAB EMIRATES

AREA: **83,600 km<sup>2</sup>**



POPULATION  
**9,441,129**



CAPITAL  
**ABU DHABI**



CONTINENT  
**MIDDLE EAST**



CURRENCY  
**UNITED ARAB EMIRATES  
DIRHAM**



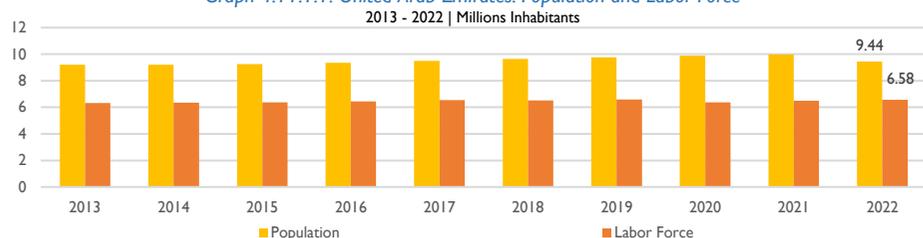
TIME ZONE  
**GULF (GMT+4)**

### 4.1.1.1 Macroeconomics

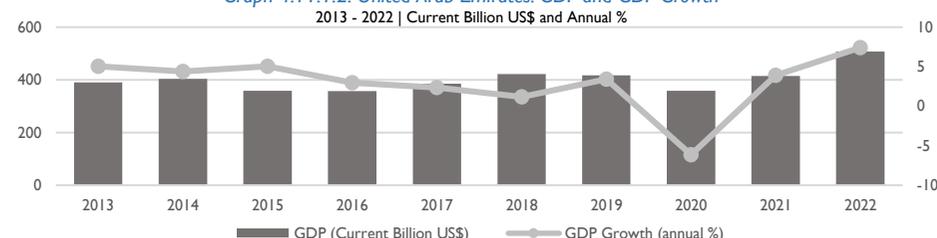
Table 4.1.1.1 United Arab Emirates Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	8,751,847	8,835,951	8,916,899	8,994,263	9,068,296	9,140,169	9,211,657	9,287,289	9,991,083	9,441,129
<b>Labor Force (Inhabitants)</b>	5,973,682	6,066,398	6,155,854	6,244,154	6,328,526	6,404,956	6,479,503	6,491,560	6,498,745	6,579,221
<b>GDP (Current Billion US\$)</b>	390.11	403.14	358.13	357.05	385.61	422.22	417.22	358.87	415.02	507.53
<b>GDP Growth (annual %)</b>	5.05	4.41	5.06	2.98	2.37	1.19	3.41	-6.13	3.92	7.41
<b>GDP per capita (Current US\$)</b>	42,412.64	43,751.82	38,663.39	38,141.88	40,644.79	43,839.32	42,701.44	36,284.56	44,315.55	53,757.86
<b>Exports of Goods and Services (Current Billion US\$)</b>	392.24	401.37	361.25	360.63	384.04	392.86	404.05	335.24	NA	NA
<b>Exports of Goods and Services (% of GDP)</b>	100.55	99.56	100.87	101.00	99.59	93.05	96.84	93.42	NA	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	252.51	277.89	266.28	270.44	290.78	281.54	295.60	246.89	NA	NA
<b>Imports of Goods and Services (% of GDP)</b>	64.73	68.93	74.35	75.74	75.41	66.68	70.85	68.80	NA	NA
<b>Inflation consumer prices (annual %)</b>	1.10	2.35	4.07	1.62	1.97	3.07	-1.93	-2.08	-0.01	4.83
<b>Energy use (kg of oil equivalent per capita)</b>	7,604.84	7,648.39	NA							
<b>Natural Gas use (Scm per capita)</b>	7,273.39	7,152.02	7,851.76	7,668.00	7,547.01	7,272.38	6,982.91	7,154.84	6,951.20	7,360.73

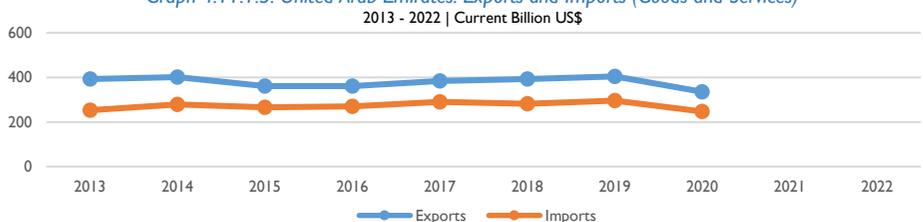
Graph 4.1.1.1.1. United Arab Emirates: Population and Labor Force



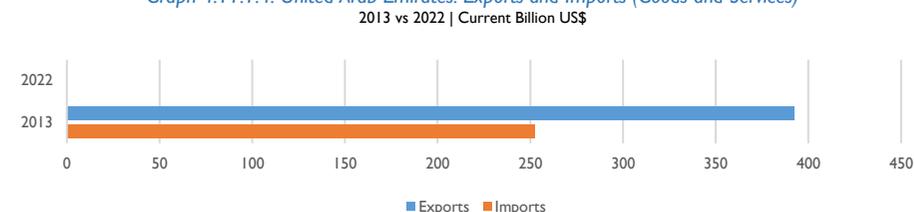
Graph 4.1.1.1.2. United Arab Emirates: GDP and GDP Growth



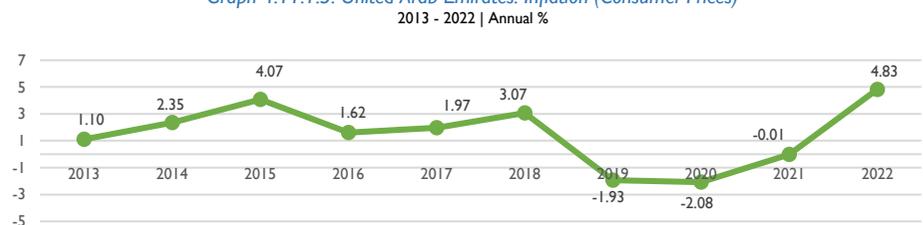
Graph 4.1.1.1.3. United Arab Emirates: Exports and Imports (Goods and Services)



Graph 4.1.1.1.4. United Arab Emirates: Exports and Imports (Goods and Services)



Graph 4.1.1.1.5. United Arab Emirates: Inflation (Consumer Prices)



Graph 4.1.1.1.6. United Arab Emirates: Natural Gas Use



## United Arab Emirates

### 4.1.1.2 Reserves and Production

Table 4.1.1.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	6,091	6,091	6,091	6,091	6,091	6,091	7,726	7,730	8,200	8,210

Table 4.1.1.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	84.32	84.31	90.27	91.40	91.63	95.43	93.66	89.49	88.40	89.20
<b>Marketed Production</b>	54.60	54.24	60.18	61.86	54.09	47.62	55.10	55.06	54.48	55.57
<b>Reinjection</b>	23.18	23.40	23.69	23.75	23.78	22.99	23.95	23.45	23.25	23.46
<b>Flaring</b>	1.02	1.02	1.04	1.02	1.14	0.23	0.98	1.30	1.10	1.11
<b>Shrinkage</b>	0.00	0.00	0.40	0.30	7.53	19.01	8.22	4.59	4.48	3.93
<b>Other Losses</b>	4.39	4.44	5.10	5.10	5.10	5.24	5.40	5.09	5.09	5.12

### 4.1.1.3 Domestic Consumption and Trade

Table 4.1.1.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Totals</b>	66.90	65.90	72.73	71.78	71.60	70.04	68.23	70.76	69.45	69.49

Table 4.1.1.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>LNG</b>	Bcm*	9.14	9.93	9.33	9.44	8.34	8.94	9.26	8.74	8.22	7.58
	MMT	5.29	5.82	5.87	5.93	5.72	5.21	5.60	5.48	6.04	5.58
<b>Totals (Bcm)</b>	9.14	9.93	9.33	9.44	8.34	8.94	9.26	8.74	8.22	7.58	

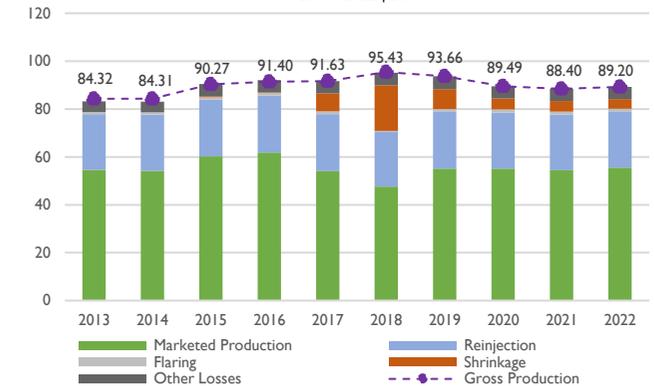
\* Gas equivalent

Table 4.1.1.3.3 Historical Trade: Natural Gas Imports

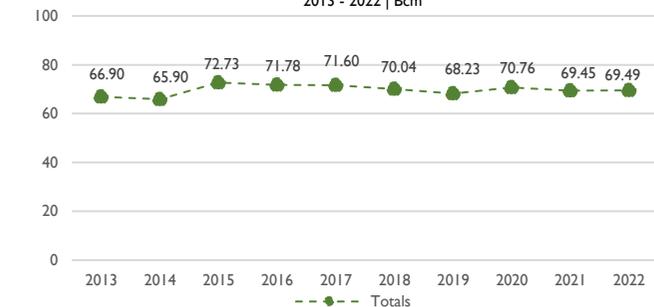
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
<b>Pipeline (Bcm)</b>	19.90	20.09	19.75	20.00	21.96	22.36	22.45	22.62	21.68	20.62	
<b>LNG</b>	Bcm*	1.54	1.55	2.96	4.26	2.92	1.40	1.63	1.53	1.71	0.88
	MMT	1.13	1.14	2.18	3.13	2.15	1.03	1.20	1.12	1.26	0.65
<b>Totals (Bcm)</b>	21.44	21.64	22.71	24.26	24.88	23.76	24.08	24.14	23.39	21.50	

\* Gas equivalent

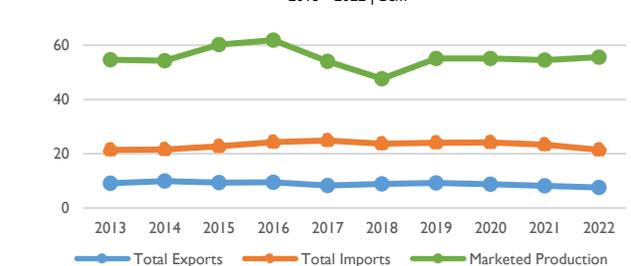
Graph 4.1.1.2.1. United Arab Emirates: Natural Gas Annual Production  
2013 - 2022 | Bcm



Graph 4.1.1.3.1. United Arab Emirates: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Graph 4.1.1.3.2. United Arab Emirates: Natural Gas Trade and Marketed Production  
2013 - 2022 | Bcm



## 4.11.4 Transport and Plants

Table 4.11.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>Dolphin</b>	Qatar	United Arab Emirates	-	Dolphin Energy	Dolphin Energy	Operational	33.1	Import	2007	364	48

Table 4.11.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
AL Khaznah	National Gas Shipping Co. (ADNOC)	1994	137.54
Shahamah	National Gas Shipping Co. (ADNOC)	1994	137.56
Ghasha	National Gas Shipping Co. (ADNOC)	1995	137.51
Ish	National Gas Shipping Co. (ADNOC)	1995	137.57
Mubaraz	National Gas Shipping Co. (ADNOC)	1996	136.98
Mraweh	National Gas Shipping Co. (ADNOC)	1996	137.04
AL Hamra	National Gas Shipping Co. (ADNOC)	1997	137.08
Umm AL Ashtan	National Gas Shipping Co. (ADNOC)	1997	137.11
<b>Total</b>			<b>1098.39</b>

Table 4.11.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Das Island</b>	3	5.6	Operational	1977 1977 1994	ADNOC, Mitsui, BP, Total	ADGAS

Table 4.11.4.4 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Ruwais (FSRU)</b>	6.9	Offline	2016	NA	GASCO
<b>Jebel Ali (FSRU)</b>	10.3	Operational	2010	NA	DUSUP
<b>Total Existing Capacity</b>	<b>17.2</b>				



Bolivarian Republic of  
**VENEZUELA**

AREA: **912,050 km<sup>2</sup>**



POPULATION  
**28,301,696**



CAPITAL  
**CARACAS**



CONTINENT  
**SOUTH AMERICA**



CURRENCY  
**VENEZUELAN BOLIVAR**



TIME ZONE  
**VENEZUELA (GMT-4)**

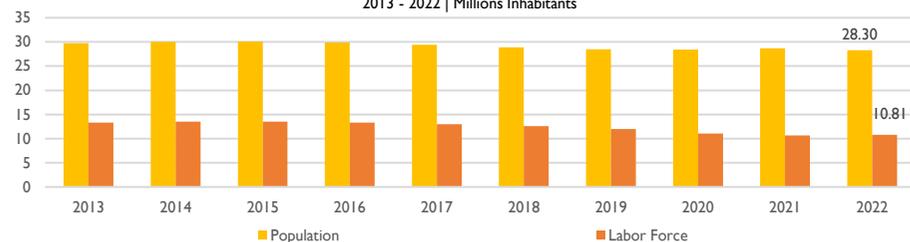
## 4.12.1 Macroeconomics

Table 4.12.1.1 Venezuela Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	29,781,046	30,042,973	30,081,827	29,851,249	29,402,480	28,887,117	28,515,829	28,435,943	28,704,947	28,301,696
<b>Labor Force (Inhabitants)</b>	13,341,572	13,492,626	13,545,018	13,321,835	13,005,670	12,595,517	11,996,396	11,063,628	10,665,579	10,811,318
<b>GDP (Current Billion US\$)</b>	258.99	203.82	323.60	279.25	143.84	98.44	63.96	47.26	NA	NA
<b>GDP Growth (annual %)</b>	1.34	-3.89	58.77	-13.70	-48.49	-31.57	-35.02	-26.12	NA	NA
<b>GDP per capita (Current US\$)</b>	12,457.77	16,055.65	10,757.16	9,354.68	4,892.14	3,407.64	2,242.96	1,661.81	NA	NA
<b>Exports of Goods and Services (Current Billion US\$)</b>	91.88	80.52	37.25	27.61	33.89	33.60	20.68	8.24	10.10	17.70
<b>Exports of Goods and Services (% of GDP)</b>	35.48	39.51	11.51	9.89	23.56	34.14	32.33	17.43	NA	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	109.49	151.45	36.50	17.98	13.36	13.51	7.19	8.41	12.00	18.00
<b>Imports of Goods and Services (% of GDP)</b>	42.28	74.30	11.28	6.44	9.29	13.72	11.24	17.79	NA	NA
<b>Inflation consumer prices (annual %)</b>	498.10	839.50	2,357.90	8,826.90	84,970.30	110,597,550.20	10,711,919,274.4	327,767,509,170	2,577,508,248,886	8,610,897,384,090
<b>Energy use (kg of oil equivalent per capita)</b>	2,308.94	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Gas use (Scm per capita)</b>	753.43	732.68	829.67	872.66	869.65	734.68	615.42	521.36	494.60	489.57

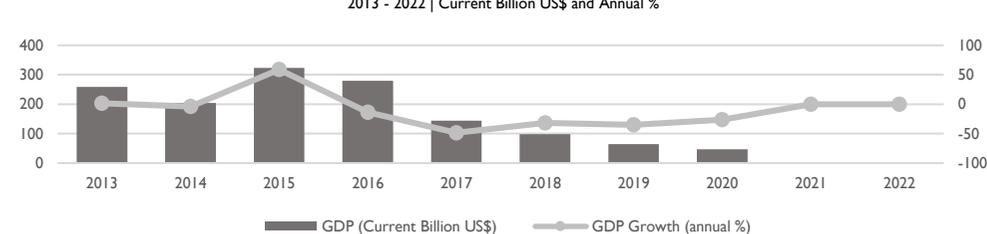
Graph 4.12.1.1. Venezuela: Population and Labor Force

2013 - 2022 | Millions Inhabitants



Graph 4.12.1.2. Venezuela: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



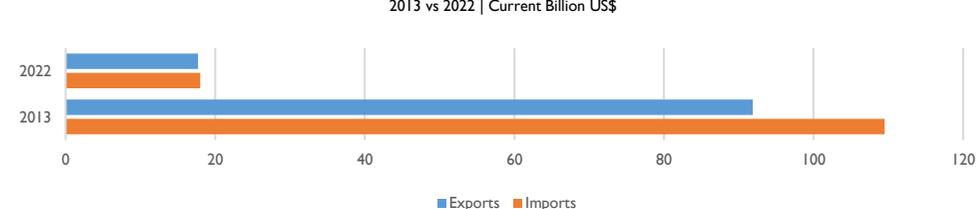
Graph 4.12.1.3. Venezuela: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



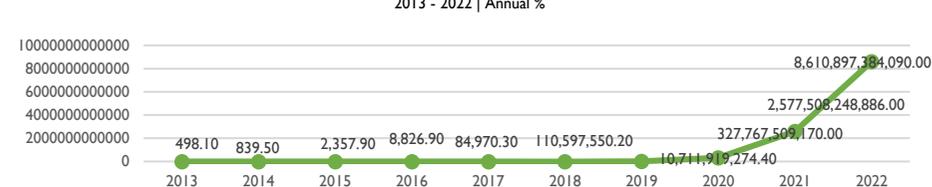
Graph 4.12.1.4. Venezuela: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



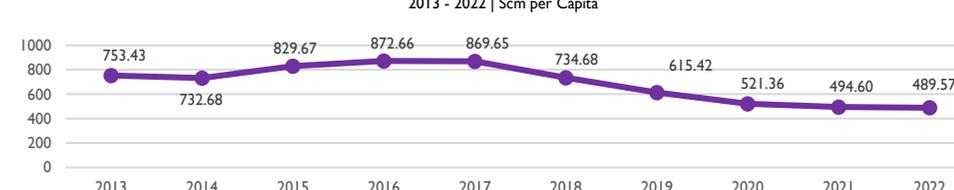
Graph 4.12.1.5. Venezuela: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 4.12.1.6. Venezuela: Natural Gas Use

2013 - 2022 | Scm per Capita



### 4.12.2 Reserves and Production

Table 4.12.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	5,581	5,617	5,702	5,740	5,708	5,674	5,674	5,590	5,541	5,541

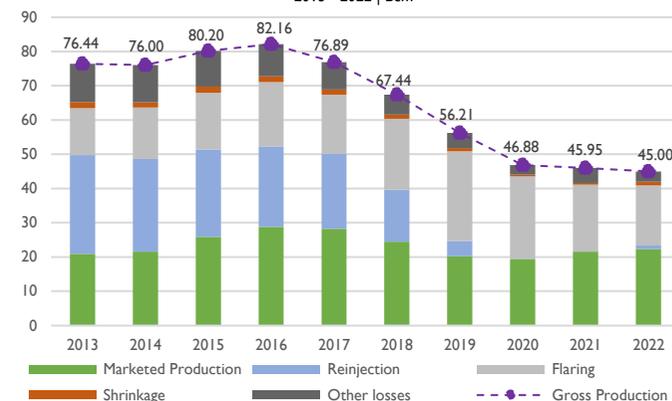
Table 4.12.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	76.44	76.00	80.20	82.16	76.89	67.44	56.21	46.88	45.95	45.00
<b>Marketed Production</b>	20.95	21.62	25.95	28.84	28.29	24.50	20.27	19.40	21.57	22.31
<b>Reinjection</b>	28.77	27.03	25.44	23.42	21.90	15.15	4.45	0.08	0.00	1.04
<b>Flaring</b>	13.72	15.02	16.54	18.82	17.24	20.73	26.18	24.11	19.50	17.55
<b>Shrinkage</b>	1.77	1.46	1.83	1.67	1.51	1.22	0.93	0.47	0.54	1.04
<b>Other losses</b>	11.23	10.88	10.44	9.41	7.96	5.84	4.38	2.81	4.33	3.06

Table 4.12.2.3 Detailed 2022 Natural Gas Production (MMcm)

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	4072.92	3624.47	4015.07	3795.83	3866.31	3737.88	3719.84	3779.53	3668.27	3748.37	3505.16	3465.42
<b>Marketed Production</b>	2012.94	1697.61	1964.47	1854.87	1942.80	1880.46	1685.52	1913.69	1887.68	1739.01	1814.52	1915.08

Graph 4.12.2.1. Venezuela: Natural Gas Annual Production 2013 - 2022 | Bcm



### 4.12.3 Domestic Consumption and Trade

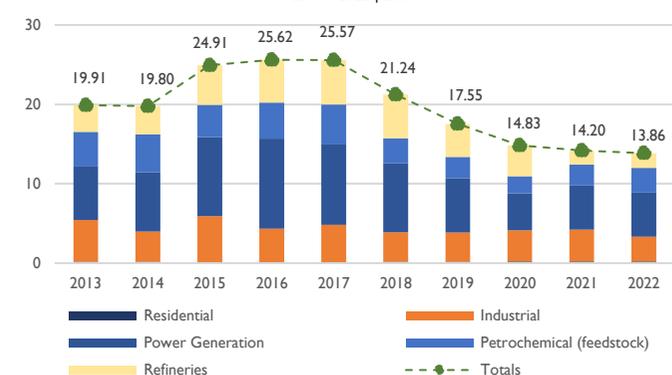
Table 4.12.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Residential</b>	0.17	0.17	0.14	0.12	0.15	0.16	0.17	0.20	0.21	0.20
<b>Industrial</b>	5.26	3.83	5.81	4.22	4.69	3.75	3.71	3.96	4.03	3.12
<b>Power Generation</b>	6.75	7.42	9.95	11.34	10.20	8.66	6.82	4.64	5.52	5.58
<b>Transportation</b>	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.03	0.03
<b>Petrochemical (feedstock)</b>	4.34	4.80	4.06	4.55	4.96	3.18	2.68	2.15	2.66	3.12
<b>Refineries</b>	3.38	3.57	4.96	5.38	5.57	5.47	4.16	3.85	1.74	1.80
<b>Totals</b>	19.91	19.80	24.91	25.62	25.57	21.24	17.55	14.83	14.20	13.86

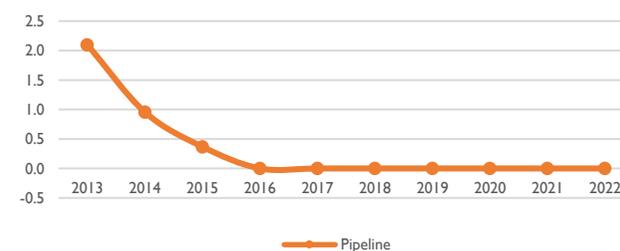
Table 4.12.3.2 Historical Trade: Natural Gas Imports (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline</b>	2.10	0.96	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Totals</b>	2.10	0.96	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Graph 4.12.3.1. Venezuela: Natural Gas Annual Domestic Consumption 2013 - 2022 | Bcm



Graph 4.12.3.2. Venezuela: Natural Gas Annual Imports 2013 - 2022 | Bcm



## 4.12.4 Transport and Plants

Table 4.12.4.1 Natural Gas Export Pipelines

Pipeline	Connection		Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To								
<b>Antonio Ricaurte (Trans Caribbean)</b>	Colombia	Venezuela	PDVSA Gas	PDVSA Gas	Operational	2.7	Import/Export	2007	225	26





Section 5

# GECF Observer Countries



Republic of  
**ANGOLA**

AREA: **1,246,700 km<sup>2</sup>**



POPULATION  
**33,588,987**



CAPITAL  
**LUANDA**



CONTINENT  
**AFRICA**



CURRENCY  
**ANGOLAN KWANZA**



TIME ZONE  
**WEST AFRICA (GMT+1)**

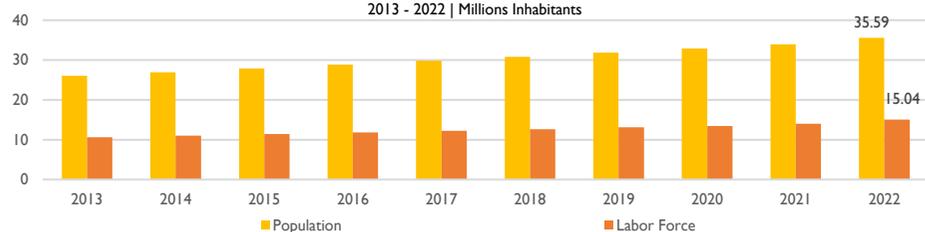
## 5.1.1 Macroeconomics

Table 5.1.1.1 Angola Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	26,015,786	26,941,773	27,884,380	28,842,482	29,816,769	30,809,787	31,825,299	32,866,268	33,933,611	35,588,987
<b>Labor Force (Inhabitants)</b>	10,621,492	11,004,723	11,402,381	11,804,734	12,223,456	12,659,938	13,116,712	13,415,460	13,971,332	15,042,938
<b>GDP (Current Billion US\$)</b>	133.40	137.24	87.22	49.84	68.97	77.79	69.31	53.62	72.55	106.71
<b>GDP Growth (annual %)</b>	4.95	4.82	0.94	-2.58	-0.15	-1.32	-0.70	-5.50	0.70	3.05
<b>GDP per capita (Current US\$)</b>	5,127.72	5,094.11	3,127.89	1,728.02	2,313.22	2,524.94	2,177.80	1,631.43	2,137.91	2,998.50
<b>Exports of Goods and Services (Current Billion US\$)</b>	67.70	61.34	25.95	14.02	20.00	31.77	28.27	20.33	27.48	27.66
<b>Exports of Goods and Services (% of GDP)</b>	50.75	44.70	29.75	28.12	29.00	40.84	40.79	37.91	37.87	25.92
<b>Imports of Goods and Services (Current Billion US\$)</b>	48.11	47.54	28.90	12.58	16.04	19.87	11.81	10.16	10.92	12.42
<b>Imports of Goods and Services (% of GDP)</b>	36.06	34.64	33.13	25.25	23.25	25.54	17.04	18.95	15.05	11.64
<b>Inflation consumer prices (annual %)</b>	8.78	7.28	9.15	30.70	29.84	19.63	17.08	22.27	25.75	N/A
<b>Energy use (kg of oil equivalent per capita)</b>	533.76	544.61	NA							
<b>Natural Gas use (Scm per capita)</b>	15.79	11.14	27.61	27.74	26.46	25.64	25.61	25.16	24.49	23.75

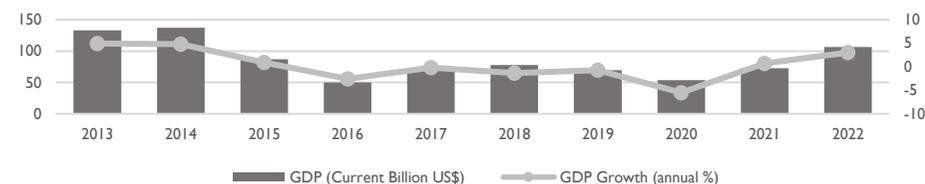
Graph 5.1.1.1. Angola: Population and Labor Force

2013 - 2022 | Millions Inhabitants



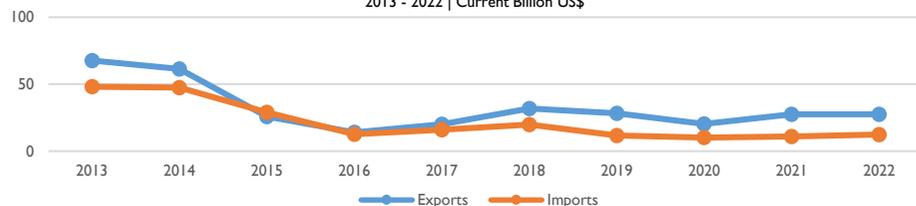
Graph 5.1.1.2. Angola: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



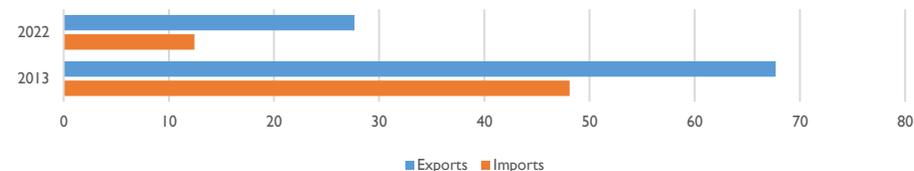
Graph 5.1.1.3. Angola: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 5.1.1.4. Angola: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



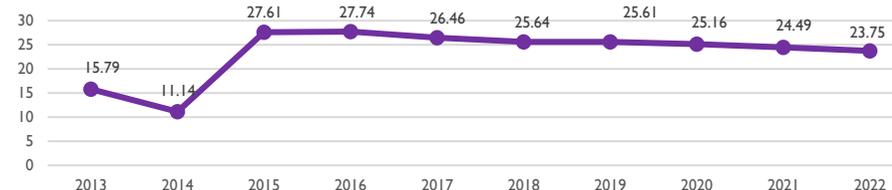
Graph 5.1.1.5. Angola: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 5.1.1.6. Angola: Natural Gas Use

2013 - 2022 | Scm per Capita



## 5.1.2 Reserves and Production

Table 5.1.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	275	308	308	440	422	384	343	301	301	129

Table 5.1.2.2 Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	10.76	10.44	10.54	11.71	14.95	13.88	12.91	13.15	11.45	10.59
<b>Marketed Production</b>	0.93	0.73	0.77	1.71	5.80	6.38	6.81	7.45	5.95	5.39
<b>Reinjection</b>	2.58	2.53	2.55	2.50	2.60	2.50	2.40	2.40	2.50	2.30
<b>Flaring</b>	7.00	6.99	7.00	7.20	6.10	4.20	2.80	2.30	2.10	2.00
<b>Other Losses</b>	0.25	0.19	0.22	0.30	0.45	0.80	0.90	1.00	0.90	0.90

## 5.1.3 Domestic Consumption and Trade

Table 5.1.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Totals</b>	0.41	0.30	0.77	0.80	0.79	0.79	0.82	0.83	0.83	0.85

\* Gas equivalent

Table 5.1.3.2 Historical Trade: Natural Gas Exports

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>LNG</b>	Bcm*	0.52	0.43	0.00	0.91	4.96	5.31	5.72	6.27	4.74	4.17
	MMT	0.38	0.32	0.00	0.67	3.65	3.91	4.21	4.61	3.48	3.07
<b>Totals (Bcm)</b>		0.52	0.43	0.00	0.91	4.96	5.31	5.72	6.27	4.74	4.17

\* Gas equivalent

Graph 5.1.2.1. Angola: Natural Gas Annual Production



Graph 5.1.3.1. Angola: Natural Gas Annual Domestic Consumption



Graph 5.1.3.2. Angola: Natural Gas Trade and Marketed Production



## 5.1.4 Transport and Plants

Table 5.1.4.1 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Cubal	NYK Line/Mitsui & Co/Teekay LNG Partners	2012	160.28
Lobito	Mitsui & Co/NYK Line/Teekay LNG Partners	2011	160.28
Malanje	Mitsui & Co/NYK Line/Teekay LNG Partners	2011	160.28
Sonangol Benguela	Sonangol	2007	160.50
Sonangol Etosha	Sonangol	2007	160.50
Sonangol Sambizanga	Sonangol	2007	160.50
Soyo	Mitsui & Co/NYK Line/Teekay LNG Partners	2011	160.28
<b>Total</b>			<b>1122.60</b>

Table 5.1.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Angola LNG</b>	1	5.2	Operational	2013	Angola LNG	Angola LNG



Republic of  
**AZERBAIJAN**

AREA: **86,600 km<sup>2</sup>**



POPULATION  
**10,175,016**



CAPITAL  
**BAKU**



CONTINENT  
**EUROASIA**



CURRENCY  
**AZERBAIJANI MANAT**



TIME ZONE  
**AZERBAIJAN (GMT+4)**

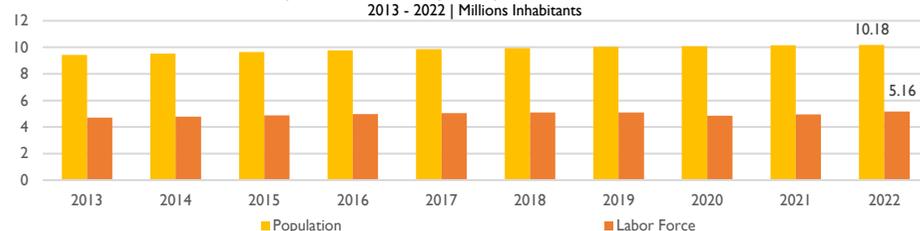
## 5.2.1 Macroeconomics

Table 5.2.1.1 Azerbaijan Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	9,416,801	9,535,079	9,649,341	9,757,812	9,854,033	9,939,771	10,024,283	10,093,121	10,145,212	10,175,016
<b>Labor Force (Inhabitants)</b>	4,702,401	4,791,071	4,876,104	4,969,576	5,033,710	5,091,128	5,103,475	4,846,887	4,955,924	5,160,258
<b>GDP (Current Billion US\$)</b>	74.16	75.24	53.07	37.87	40.87	47.11	48.17	42.69	54.62	78.72
<b>GDP Growth (annual %)</b>	5.81	2.75	1.09	-3.10	0.20	1.50	2.50	-4.30	5.60	4.62
<b>GDP per capita (Current US\$)</b>	7,875.76	7,891.31	5,500.31	3,880.74	4,147.09	4,739.84	4,805.75	4,229.91	5,384.03	7,736.70
<b>Exports of Goods and Services (Current Billion US\$)</b>	35.91	32.56	20.06	17.58	19.84	25.48	23.63	15.21	25.49	47.27
<b>Exports of Goods and Services (% of GDP)</b>	48.42	43.27	37.79	46.43	48.55	54.09	49.05	35.62	46.66	60.05
<b>Imports of Goods and Services (Current Billion US\$)</b>	19.48	19.72	18.47	16.53	17.10	17.71	17.71	15.54	16.34	21.27
<b>Imports of Goods and Services (% of GDP)</b>	26.26	26.21	34.81	43.65	41.85	37.58	36.77	36.39	29.91	27.03
<b>Inflation consumer prices (annual %)</b>	2.42	1.37	4.03	12.44	12.94	2.27	2.61	2.76	6.65	13.85
<b>Energy use (kg of oil equivalent per capita)</b>	1,474.00	1,502.08	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Gas use (Scm per capita)</b>	1,005.44	1,040.16	1,127.54	1,075.92	954.81	1,088.56	1,176.14	1,124.53	1,104.95	1,040.72

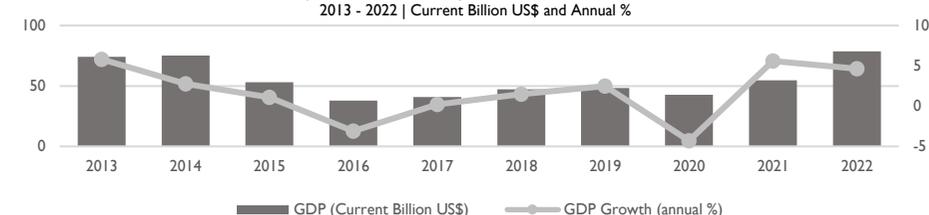
Graph 5.2.1.1. Azerbaijan: Population and Labor Force

2013 - 2022 | Millions Inhabitants



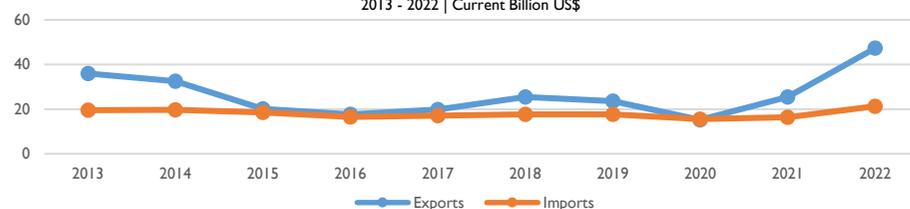
Graph 5.2.1.2. Azerbaijan: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



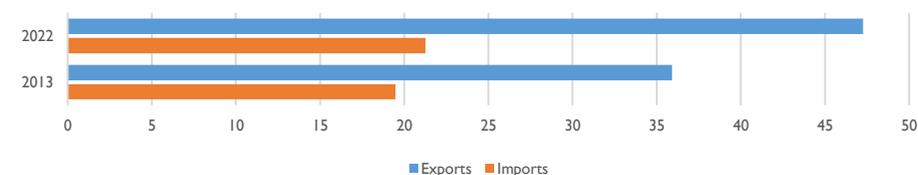
Graph 5.2.1.3. Azerbaijan: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 5.2.1.4. Azerbaijan: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



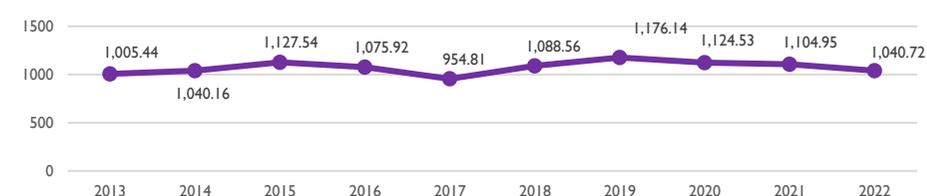
Graph 5.2.1.5. Azerbaijan: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 5.2.1.6. Azerbaijan: Natural Gas Use

2013 - 2022 | Scm per Capita



## 5.2.2 Reserves and Production

Table 5.2.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Proven Gas Reserves</b>	1,308	1,300	1,292	1,284	1,277	1,270	1,435	1,917	1,917	1,917

Table 5.2.2.2 Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Gross Production</b>	28.51	28.89	28.14	28.28	27.17	28.21	33.60	34.97	41.77	44.11
<b>Marketed Production</b>	17.44	18.34	18.74	18.28	17.72	18.71	22.88	24.72	30.87	33.23
<b>Reinjection</b>	7.75	7.80	7.00	7.70	7.40	7.40	7.99	7.60	7.60	7.41
<b>Flaring</b>	0.65	0.50	0.30	0.30	0.25	0.20	0.30	0.15	0.20	0.26
<b>Other Losses</b>	2.67	2.25	2.10	2.00	1.80	1.90	2.43	2.50	3.10	3.21

## 5.2.3 Domestic Consumption and Trade

Table 5.2.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Totals</b>	9.47	9.92	10.88	10.50	9.41	10.82	11.79	11.35	11.21	10.59

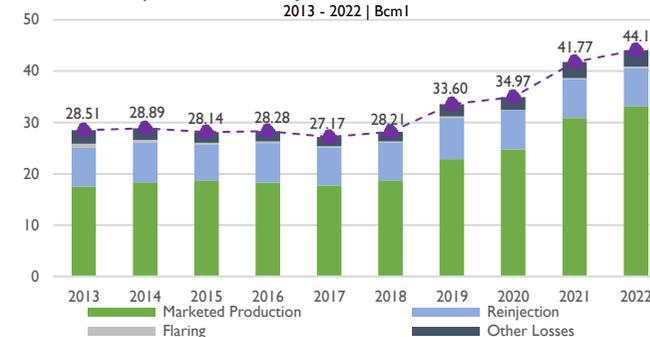
Table 5.2.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline</b>	6.57	7.31	8.07	8.14	8.04	8.86	9.91	11.83	13.54	19.38
<b>Totals</b>	7.31	8.07	8.14	8.04	8.86	9.91	11.83	13.54	19.38	22.67

Table 5.2.3.3 Historical Trade: Natural Gas Imports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline</b>	0.45	0.30	0.28	0.30	0.55	2.06	1.01	0.17	0.50	0.36
<b>Totals</b>	0.45	0.30	0.28	0.30	0.55	2.06	1.01	0.17	0.50	0.36

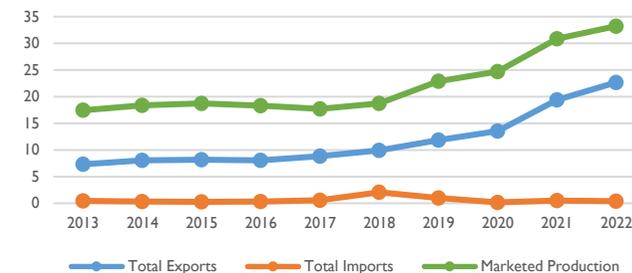
Graph 5.2.2.1. Azerbaijan: Natural Gas Annual Production  
2013 - 2022 | Bcm



Graph 5.2.3.1. Azerbaijan: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Graph 5.2.3.2. Azerbaijan: Natural Gas Trade and Marketed Production  
2013 - 2022 | Bcm



## 5.2.4 Transport and Plants

Table 5.2.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/Year)	Type	Start Year	Length (km)	Diameter (Inches)	
	From	To	Via									
<b>Southern Gas Corridor</b>	Azerbaijan	Georgia, Turkey, Greece, Italy	-	BP, TPAO, SOCAR, Petronas, Lukoil, Naftiran, Intertrade	BP	Operational	16.0	Export	2006	692	42	
<b>Jolfa-Nakhchivan</b>	Azerbaijan	Iran	-	SOCAR, NIGC	SOCAR, NIGC	Operational	10.0	Swap	2005	627	40	
<b>Mozdok-Makhachkala-Kazi Magomed</b>	Russia	Azerbaijan	-	SOCAR, GAZPROM	SOCAR, GAZPROM	Operational	13.0	-	2010	680	48	
<b>Trans-Caspian</b>	Azerbaijan	Turkmenistan	-	NA	NA	Proposed	30.0	Export	NA	300	NA	
<b>Total Expected Capacity</b>							<b>69.0</b>					



Republic of  
**IRAQ**

AREA: **435,050 km<sup>2</sup>**



POPULATION  
**44,496,122**



CAPITAL  
**BAGHDAD**



CONTINENT  
**MIDDLE EAST**



CURRENCY  
**IRAQI DINAR**



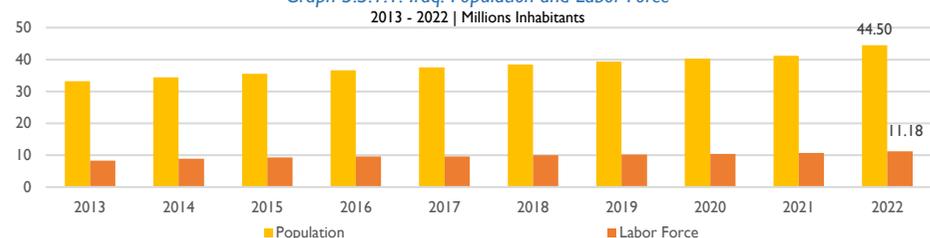
TIME ZONE  
**ARABIA (GMT+3)**

### 5.3.1 Macroeconomics

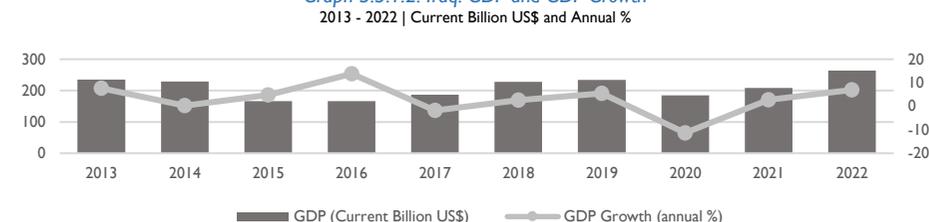
Table 5.3.1.1 Iraq Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	33,157,061	34,411,949	35,572,269	36,610,632	37,552,789	38,433,604	39,309,789	40,222,503	41,179,351	44,496,122
<b>Labor Force (Inhabitants)</b>	8,304,576	8,889,023	9,291,728	9,620,473	9,631,305	9,968,680	10,242,316	10,368,723	10,718,823	11,183,808
<b>GDP (Current Billion US\$)</b>	234.64	228.42	166.77	166.60	187.22	227.37	233.64	184.37	207.89	264.18
<b>GDP Growth (annual %)</b>	7.63	0.20	4.72	13.79	-1.82	2.63	5.51	-11.32	2.78	7.01
<b>GDP per capita (Current US\$)</b>	7,076.55	6,637.68	4,688.32	4,550.66	4,985.45	5,915.85	5,943.46	4,583.75	5,048.39	5,937.20
<b>Exports of Goods and Services (Current Billion US\$)</b>	93.07	88.95	57.56	46.83	63.50	92.77	88.90	50.19	NA	NA
<b>Exports of Goods and Services (% of GDP)</b>	39.66	38.94	34.51	28.11	33.92	40.80	38.05	27.22	NA	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	65.10	68.62	58.50	44.12	48.42	56.84	72.28	54.27	NA	NA
<b>Imports of Goods and Services (% of GDP)</b>	27.75	30.04	35.08	26.48	25.86	25.00	30.94	29.43	NA	NA
<b>Inflation consumer prices (annual %)</b>	1.88	2.24	1.39	0.56	0.18	0.37	-0.20	0.57	6.04	4.99
<b>Energy use (kg of oil equivalent per capita)</b>	1,488.56	1,437.90	NA							
<b>Natural Gas use (Scm per capita)</b>	194.19	197.68	194.08	230.66	269.95	347.48	445.52	466.98	469.27	460.22

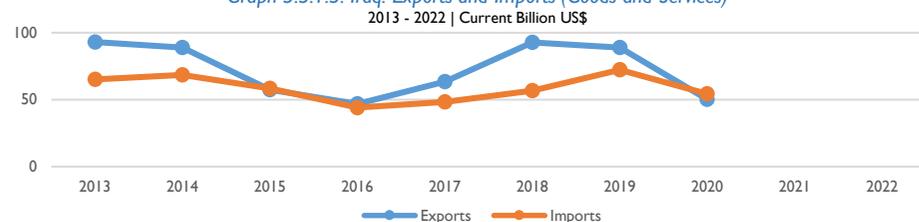
Graph 5.3.1.1. Iraq: Population and Labor Force



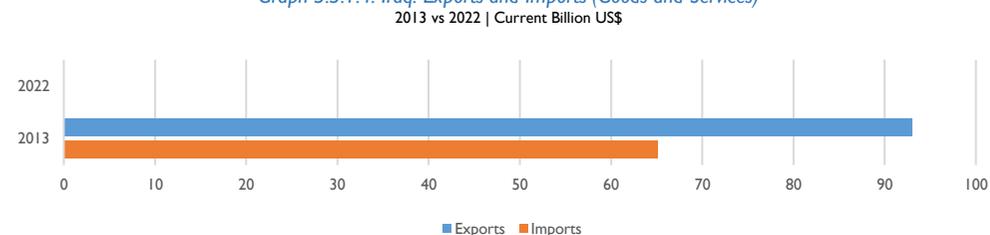
Graph 5.3.1.2. Iraq: GDP and GDP Growth



Graph 5.3.1.3. Iraq: Exports and Imports (Goods and Services)



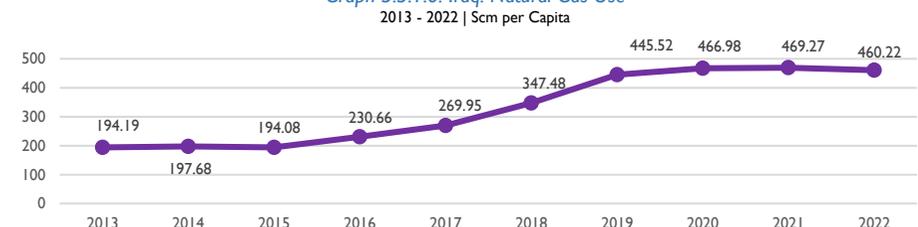
Graph 5.3.1.4. Iraq: Exports and Imports (Goods and Services)



Graph 5.3.1.5. Iraq: Inflation (Consumer Prices)



Graph 5.3.1.6. Iraq: Natural Gas Use



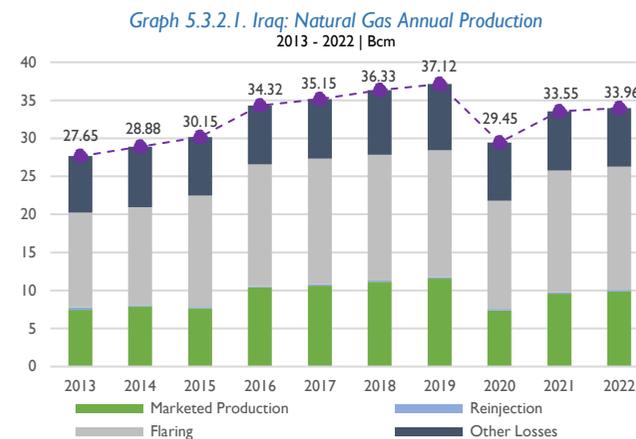
### 5.3.2 Reserves and Production

Table 5.3.2.1 Proven Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Proven Gas Reserves	3,158	3,158	3,158	3,158	3,820	3,744	3,729	3,714	3,714	3,714

Table 5.3.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Gross Production	27.65	28.88	30.15	34.32	35.15	36.33	37.12	29.45	33.55	33.96
Marketed Production	7.44	7.93	7.69	10.42	10.65	11.13	11.54	7.37	9.59	9.86
Reinjection	0.34	0.15	0.16	0.15	0.20	0.20	0.20	0.20	0.20	0.20
Flaring	12.43	12.87	14.61	16.00	16.50	16.50	16.70	14.20	16.00	16.20
Other Losses	7.44	7.93	7.69	7.75	7.80	8.50	8.68	7.68	7.76	7.70



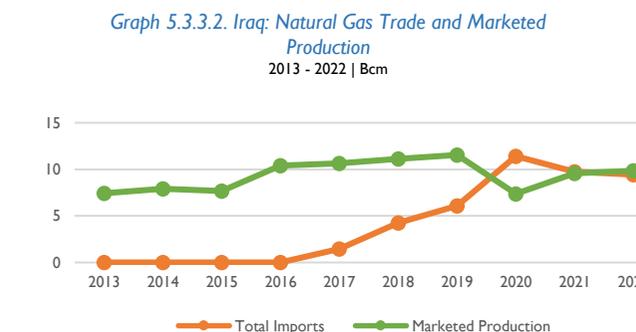
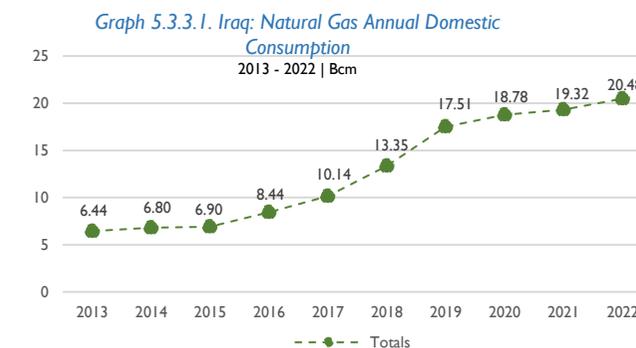
### 5.3.3 Domestic Consumption and Trade

Table 5.3.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Totals	6.44	6.80	6.90	8.44	10.14	13.35	17.51	18.78	19.32	20.48

Table 5.3.3.2 Historical Trade: Natural Gas Imports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Pipeline (Bcm)	0.00	0.00	0.00	0.00	1.45	4.26	6.10	11.41	9.74	9.43
Totals (Bcm)	0.00	0.00	0.00	0.00	1.45	4.26	6.10	11.41	9.74	9.43



### 5.3.4 Transport and Plants

Table 5.3.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
<b>Asaluye-Baghdad</b>	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	12.8	Import	2017	230	NA
<b>Asaluye-Basrah</b>	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	NA	Import	NA	NA	NA
<b>Total Existing Capacity</b>							+12.8				



# MALAYSIA

AREA: 330,803 km<sup>2</sup>



POPULATION  
33,938,221



CAPITAL  
KUALA LUMPUR



CONTINENT  
ASIA



CURRENCY  
RINGGIT MALAYSIA RM



TIME ZONE  
MALAYSIA (GMT+8)

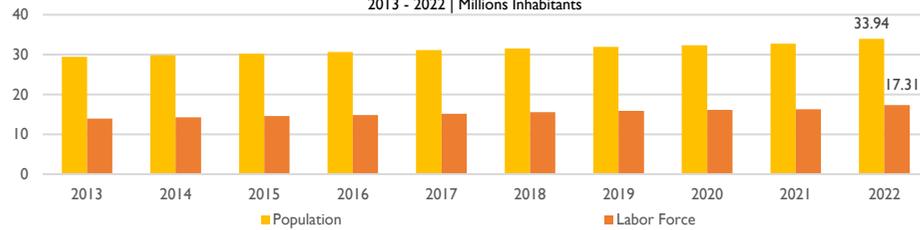
### 5.4.1 Macroeconomics

Table 5.4.1.1 Malaysia Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	29,468,923	29,866,606	30,270,965	30,684,652	31,104,655	31,528,033	31,949,789	32,365,998	32,776,195	33,938,221
<b>Labor Force (Inhabitants)</b>	13,944,247	14,286,287	14,617,015	14,858,273	15,154,997	15,523,126	15,885,303	16,085,580	16,277,252	17,309,921
<b>GDP (Current Billion US\$)</b>	323.28	338.06	301.35	301.26	319.11	358.79	365.28	337.01	372.70	406.31
<b>GDP Growth (annual %)</b>	4.69	6.01	5.09	4.45	5.81	4.84	4.44	-5.65	3.13	8.69
<b>GDP per capita (Current US\$)</b>	10,970.10	11,319.06	9,955.24	9,817.79	10,259.30	11,380.08	11,432.83	10,412.35	11,371.10	11,971.93
<b>Exports of Goods and Services (Current Billion US\$)</b>	244.49	249.47	209.29	201.16	223.42	245.97	238.38	207.04	256.78	300.00
<b>Exports of Goods and Services (% of GDP)</b>	75.63	73.79	69.45	66.78	70.01	68.55	65.26	61.43	68.90	73.84
<b>Imports of Goods and Services (Current Billion US\$)</b>	216.89	218.11	186.60	181.13	201.50	221.90	210.89	185.32	230.44	271.86
<b>Imports of Goods and Services (% of GDP)</b>	67.09	64.52	61.92	60.12	63.14	61.85	57.73	54.99	61.83	66.91
<b>Inflation consumer prices (annual %)</b>	2.11	3.14	2.10	2.09	3.87	0.88	0.66	-1.14	2.48	3.38
<b>Energy use (kg of oil equivalent per capita)</b>	2,979.64	3,003.45	NA							
<b>Natural Gas use (Scm per capita)</b>	1,113.38	1,177.90	1,049.03	1,052.25	1,070.48	1,091.00	1,157.07	1,026.17	1,056.13	1,064.37

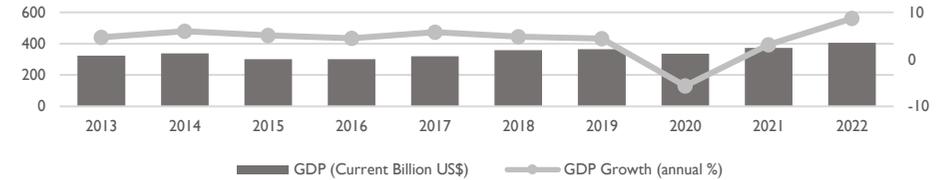
Graph 5.4.1.1. Malaysia: Population and Labor Force

2013 - 2022 | Millions Inhabitants



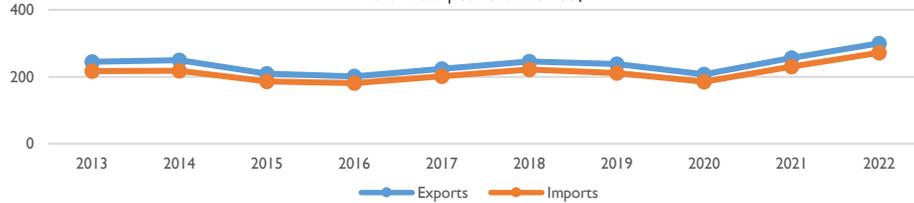
Graph 5.4.1.2. Malaysia: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



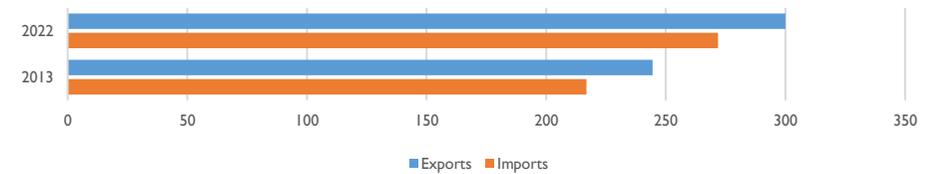
Graph 5.4.1.3. Malaysia: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 5.4.1.4. Malaysia: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



Graph 5.4.1.5. Malaysia: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 5.4.1.6. Malaysia: Natural Gas Use

2013 - 2022 | Scm per Capita



### 5.4.2 Reserves and Production

Table 5.4.2.1 Proven Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Proven Gas Reserves	2,782	2,849	2,842	2,470	2,346	2,290	2,213	2,206	2,179	2,056

Table 5.4.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Gross Production	80.06	80.66	77.94	79.52	86.60	80.43	82.29	76.47	80.24	85.19
Marketed Production	64.91	65.41	63.14	64.42	71.35	66.73	68.46	63.42	67.54	71.77
Reinjection	8.70	8.60	8.40	8.50	8.35	7.30	7.20	7.00	6.40	6.60
Flaring	1.25	1.50	1.50	1.50	1.40	1.10	1.20	1.00	0.90	1.02
Other Losses	5.20	5.15	4.90	5.10	5.50	5.30	5.43	5.05	5.40	5.80

### 5.4.3 Domestic Consumption and Trade

Table 5.4.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Totals	32.81	35.18	31.76	32.29	33.30	34.40	36.97	33.21	34.62	36.12

Table 5.4.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
Pipeline (Bcm)	2.30	1.84	1.56	1.70	1.50	1.10	1.47	1.70	2.21	2.90	
LNG	Bcm*	33.36	33.19	32.94	32.47	35.26	32.55	34.09	32.51	33.54	37.45
	MMT	24.53	24.40	24.22	23.87	25.93	23.94	25.06	23.91	24.66	27.54
Totals (Bcm)	35.66	35.03	34.50	34.17	36.76	33.65	35.56	34.21	35.75	40.35	

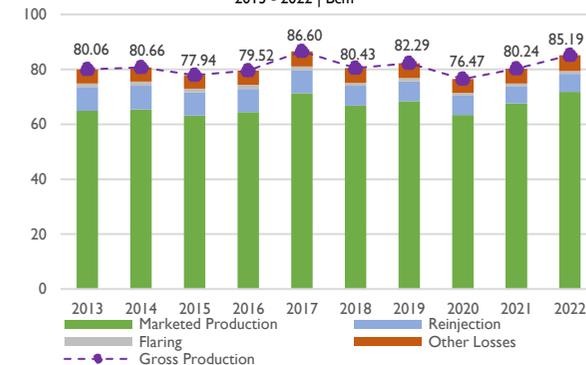
\*Gas equivalent

Table 5.4.3.3 Historical Trade: Natural Gas Imports

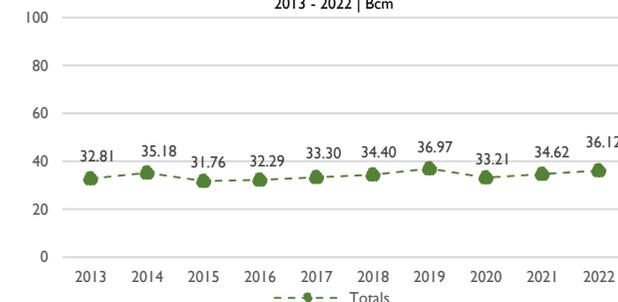
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Pipeline (Bcm)	2.25	2.10	1.33	0.55	0.72	0.60	0.62	0.42	0.37	0.22
LNG	Bcm*	2.01	2.15	2.14	1.53	1.99	1.81	3.45	2.45	3.96
	MMT	1.48	1.58	1.57	1.13	1.46	1.33	2.54	1.80	2.91
Totals (Bcm)	4.26	4.25	3.47	2.08	2.71	2.41	4.07	4.01	2.82	4.18

\*Gas equivalent

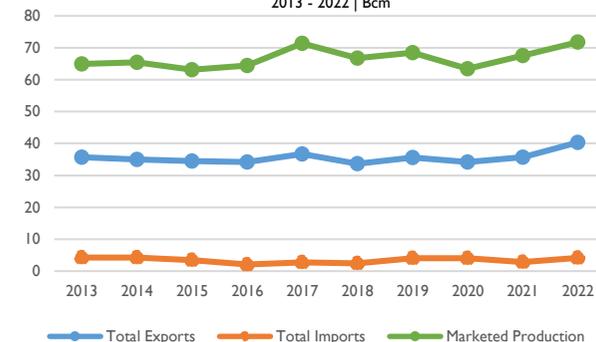
Graph 5.4.2.1. Malaysia: Natural Gas Annual Production 2013 - 2022 | Bcm



Graph 5.4.3.1. Malaysia: Natural Gas Annual Domestic Consumption 2013 - 2022 | Bcm



Graph 5.4.3.2. Malaysia: Natural Gas Trade and Marketed Production 2013 - 2022 | Bcm



## 5.4.4 Transport and Plants

Table 5.4.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)	
	From	To	Via									
Segamat	Malaysia	Singapore	-	Petronas Gas	Petronas Gas	Operational	5.7	Export	1991	230	36	
Yetagun	Malaysia	Thailand	-	Petronas Carigali	Petronas Carigali	Operational	5.2	Export	2007	270	24	
West Natuna Transportation System	Indonesia	Malaysia	-	PSCs	PSCs	Operational	2.6	Import	2001	96	18	
<b>Total Existing Capacity</b>							<b>13.5</b>					

Table 5.4.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Aman Sendai	MISC	1997	18.80
LNG Portovenere	MISC	1997	60.60
LNG Lerici	MISC	1998	60.60
Puteri Intan	MISC	1994	130.00
Puteri Delima	MISC	1995	130.00
Puteri Nilam	MISC	1995	130.00
Puteri Zamrud	MISC	1996	130.00
Puteri Firus	MISC	1997	130.00
Puteri Delima Satu	MISC	2002	137.10
Puteri Intan Satu	MISC	2002	137.10
Puteri Nilam Satu	MISC	2003	137.10
Puteri Firus Satu	MISC	2004	137.10
Puteri Zamrud Satu	MISC	2004	137.10
Puteri Mutiara Satu	MISC	2005	137.10
Seri Alam	MISC	2005	145.00
Seri Amanah	MISC	2006	145.00
Seri Angkasa	MISC	2006	145.00
<b>Sub Totals</b>			<b>2047.60</b>
<b>Total</b>			<b>4434.6</b>

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Seri Anggun	MISC	2006	145.00
Seri Ayu	MISC	2007	145.00
Seri Bakti	MISC	2007	152.60
Seri Begawan	MISC	2007	152.30
Seri Bijaksana	MISC	2008	152.30
Seri Balhaf	MISC	2009	154.50
Seri Balqis	MISC	2009	154.50
Seri Camellia	MISC	2016	150.00
Seri Cempaka	MISC	2017	150.20
Seri Cenderawasih	MISC	2017	150.00
Seri Camar	MISC	2018	150.20
Seri Cemara	MISC	2018	150.20
Hull No.8030	MISC (JV)	2021	142.00
Hull No.8031	MISC (JV)	2021	142.00
Hull No.2364	MISC	2023	148.10
Hull No.2365	MISC	2023	148.10
<b>Sub Totals</b>			<b>2387.00</b>
<b>Total</b>			<b>4434.6</b>

Table 5.4.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Malaysia LNG	9	29.3	Operational	1983/1995/2003/2016	Malaysia LNG	Malaysia LNG
PFLNG1	1	1.2	Operational	2016	Petronas	Petronas
PFLNG2	1	1.5	Operational	2021	Petronas	Petronas
PFLNG3	1	2.0	Planned	-	Petronas	Petronas
<b>Total Expected Capacity</b>		<b>34.0</b>				

Table 5.4.4.4 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Melaka (FSRU)	3.8	Operational	2013	-	-
Pengerang (RGT 2)	3.5	Operational	2017	-	-
<b>Total Existing Capacity</b>	<b>7.3</b>				



Republic of  
**MOZAMBIQUE**

AREA: **786,380 km<sup>2</sup>**



POPULATION  
**32,969,518**



CAPITAL  
**MAPUTO**



CONTINENT  
**AFRICA**



CURRENCY  
**MOZAMBIKAN METICAL (MZN)**



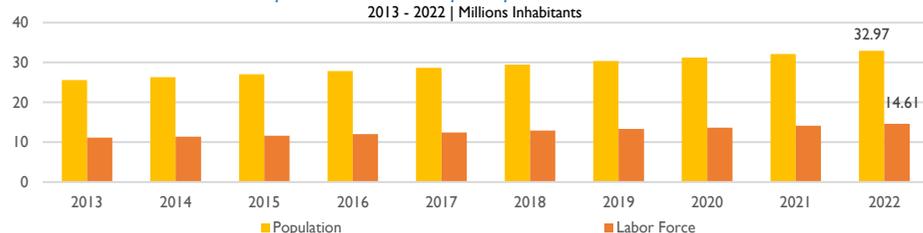
TIME ZONE  
**(GMT+2)**

## 5.5.1 Macroeconomics

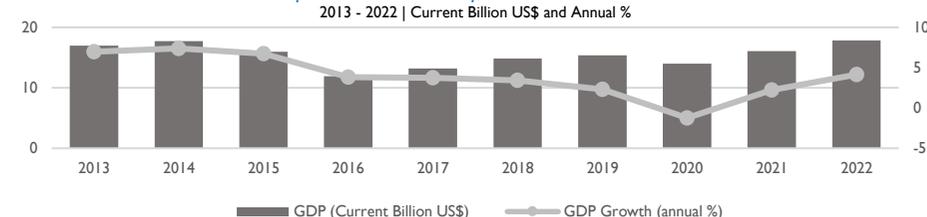
Table 5.5.1.1 Mozambique Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	25,560,752	26,286,192	27,042,001	27,829,930	28,649,007	29,496,009	30,366,043	31,255,435	32,163,045	32,969,518
<b>Labor Force (Inhabitants)</b>	11,158,852	11,403,911	11,667,371	12,047,984	12,454,016	12,882,281	13,327,075	13,661,543	14,146,886	14,614,366
<b>GDP (Current Billion US\$)</b>	16.97	17.72	15.95	11.94	13.22	14.85	15.39	14.03	16.10	17.85
<b>GDP Growth (annual %)</b>	6.96	7.40	6.72	3.82	3.74	3.44	2.31	-1.23	2.22	4.15
<b>GDP per capita (Current US\$)</b>	664.08	673.97	589.86	428.93	461.41	503.30	506.82	448.84	500.44	541.45
<b>Exports of Goods and Services (Current Billion US\$)</b>	4.54	5.54	4.96	4.00	5.10	6.66	4.97	4.19	NA	NA
<b>Exports of Goods and Services (% of GDP)</b>	26.74	31.28	31.08	33.55	38.58	44.87	32.27	29.87	NA	NA
<b>Imports of Goods and Services (Current Billion US\$)</b>	12.97	14.20	10.02	8.61	8.08	12.22	12.27	10.30	NA	NA
<b>Imports of Goods and Services (% of GDP)</b>	76.41	80.18	62.83	72.09	61.14	82.33	79.73	73.42	NA	NA
<b>Inflation consumer prices (annual %)</b>	4.26	2.56	3.55	17.42	15.11	3.91	2.78	3.14	6.41	10.28
<b>Energy use (kg of oil equivalent per capita)</b>	427.67	442.66	NA							
<b>Natural Gas use (Scm per capita)</b>	61.03	68.48	70.08	65.04	60.04	50.18	51.04	47.99	33.27	34.88

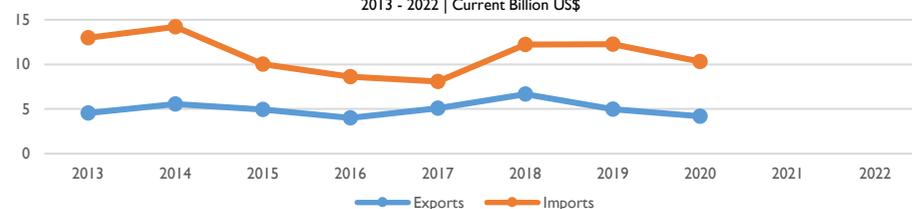
Graph 5.5.1.1. Mozambique: Population and Labor Force  
2013 - 2022 | Millions Inhabitants



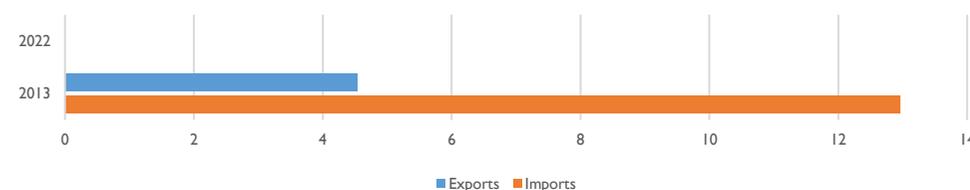
Graph 5.5.1.2. Mozambique: GDP and GDP Growth  
2013 - 2022 | Current Billion US\$ and Annual %



Graph 5.5.1.3. Mozambique: Exports and Imports (Goods and Services)  
2013 - 2022 | Current Billion US\$



Graph 5.5.1.4. Mozambique: Exports and Imports (Goods and Services)  
2013 vs 2022 | Current Billion US\$



Graph 5.5.1.5. Mozambique: Inflation (Consumer Prices)  
2013 - 2022 | Annual %



Graph 5.4.1.6. Mozambique: Natural Gas Use  
2013 - 2022 | Scm per Capita



## 5.5.2 Reserves and Production

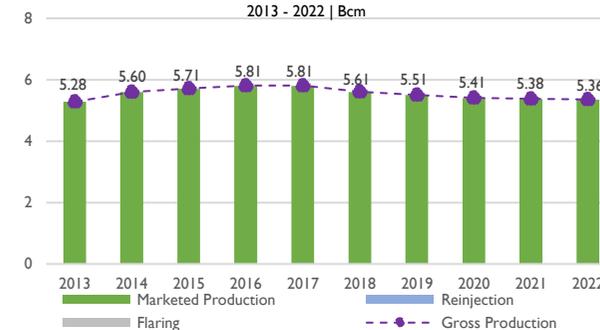
Table 5.5.2.1 Proven Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Proven Gas Reserves	75	75	75	75	186	186	650	650	650	650

Table 5.5.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Gross Production	5.28	5.60	5.71	5.81	5.81	5.61	5.51	5.41	5.38	5.36
Marketed Production	5.28	5.60	5.70	5.80	5.80	5.60	5.50	5.40	5.37	5.35
Reinjection	NA									
Flaring	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Other Losses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Graph 5.5.2.1. Mozambique: Natural Gas Annual Production  
2013 - 2022 | Bcm



## 5.5.3 Domestic Consumption and Trade

Table 5.5.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Totals	1.56	1.80	1.90	1.81	1.72	1.48	1.55	1.50	1.07	1.15

Table 5.5.3.2 Historical Trade: Natural Gas Exports

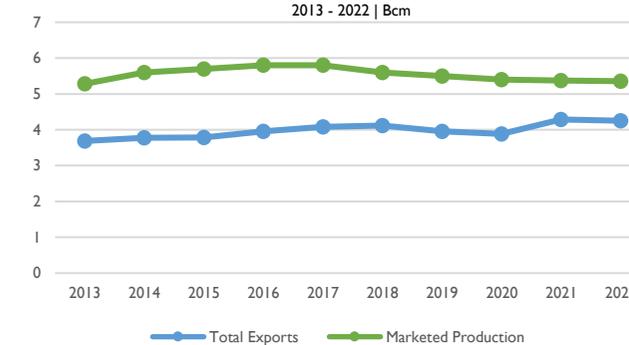
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Pipeline (Bcm)	3.69	3.78	3.79	3.96	4.08	4.12	3.95	3.89	4.29	4.20
LNG										
Bcm*	-	-	-	-	-	-	-	-	-	0.05
MMT	-	-	-	-	-	-	-	-	-	0.04
Totals (Bcm)	3.69	3.78	3.79	3.96	4.08	4.12	3.95	3.89	4.29	4.25

\* Gas equivalent

Graph 5.5.3.1. Mozambique: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Graph 5.5.3.2. Mozambique: Natural Gas Trade and Marketed Production  
2013 - 2022 | Bcm



## 5.5.4 Transport and Plants

Table 5.5.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Leng th (km)	Diameter (Inches)
	From	To	Via								
<b>Mozambique South Africa Gas Pipeline</b>	<b>Mozambique</b>	South Africa	-	Sasol Gas Holding, South African Gas Development Limited Company Companhia, Mocambicana de Gasoduto	Sasol, iGas, CMG	Operational	5.6	Export	2004	865	-
<b>African Renaissance Gas Pipeline</b>	<b>Mozambique</b>	South Africa	-	-	-	Proposed	18.0	Export	2025/2026	2600	-
<b>Total Expected Capacity</b>							<b>23.6</b>				

Table 5.5.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Coral South FLNG</b>	1	3.4	Under Construction	End 2022	Coral South FLNG	ENI Offshore Mozambique
<b>Mozambique LNG</b>	9	50.0	Announced	-	Mozambique LNG	Mozambique LNG
<b>Rovuma LNG</b>	2	15.2	Announced	2025	Rovuma LNG	Rovuma LNG
<b>Total Expected Capacity</b>		<b>68.6</b>				



Kingdom of  
**NORWAY**

AREA: **385,178 km<sup>2</sup>**



POPULATION  
**5,457,127**



CAPITAL  
**OSLO**



CONTINENT  
**EUROPE**



CURRENCY  
**NORWEGIAN KRONE**



TIME ZONE  
**CENTRAL EUROPEAN (GMT+2)**

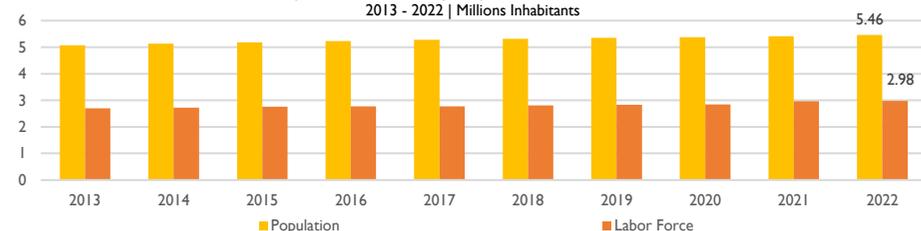
## 5.6.I Macroeconomics

Table 5.6.1.1 Norway Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population (Inhabitants)</b>	5,079,623	5,137,232	5,188,607	5,234,519	5,276,968	5,311,916	5,347,896	5,379,475	5,408,320	5,457,127
<b>Labor Force (Inhabitants)</b>	2,697,989	2,728,680	2,765,947	2,776,089	2,768,764	2,808,280	2,834,618	2,841,159	2,965,737	2,980,047
<b>GDP (Current Billion US\$)</b>	522.76	498.41	385.80	368.83	398.39	437.00	404.94	362.20	482.44	579.27
<b>GDP Growth (annual %)</b>	1.03	1.97	1.97	1.07	2.32	1.12	0.75	-0.72	3.92	3.28
<b>GDP per capita (Current US\$)</b>	102,913.45	97,019.18	74,355.52	70,460.56	75,496.75	82,267.81	75,719.75	67,329.68	89,202.75	106,148.78
<b>Exports of Goods and Services (Current Billion US\$)</b>	204.91	194.36	145.84	130.79	144.75	165.94	146.84	116.79	200.54	322.49
<b>Exports of Goods and Services (% of GDP)</b>	39.20	39.00	37.80	35.46	36.33	37.97	36.26	32.25	41.57	55.67
<b>Imports of Goods and Services (Current Billion US\$)</b>	148.20	147.86	123.68	123.48	130.80	140.88	140.84	119.83	140.45	158.29
<b>Imports of Goods and Services (% of GDP)</b>	28.35	29.67	32.06	33.48	32.83	32.24	34.78	33.09	29.11	27.33
<b>Inflation consumer prices (annual %)</b>	2.12	2.04	2.17	3.55	1.88	2.76	2.17	1.29	3.48	5.76
<b>Energy use (kg of oil equivalent per capita)</b>	6,415.99	5,595.65	5,817.64	NA						
<b>Natural Gas use (Scm per capita)</b>	700.90	835.89	872.80	881.10	893.74	861.68	879.96	783.16	802.05	782.42

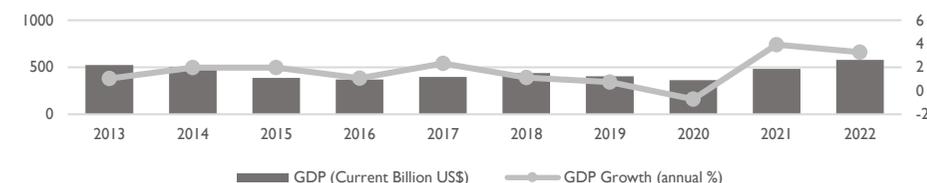
Graph 5.6.1.1. Norway: Population and Labor Force

2013 - 2022 | Millions Inhabitants



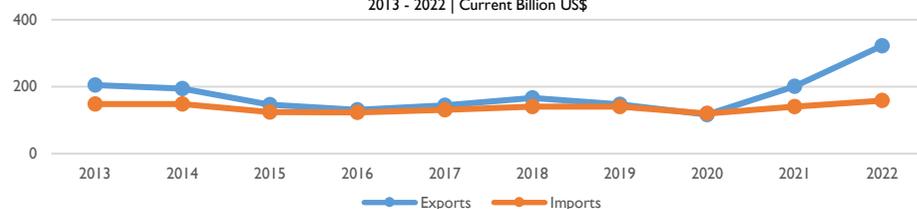
Graph 5.6.1.2. Norway: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



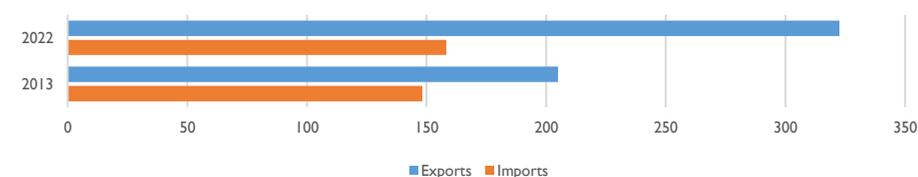
Graph 5.6.1.3. Norway: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 5.6.1.4. Norway: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



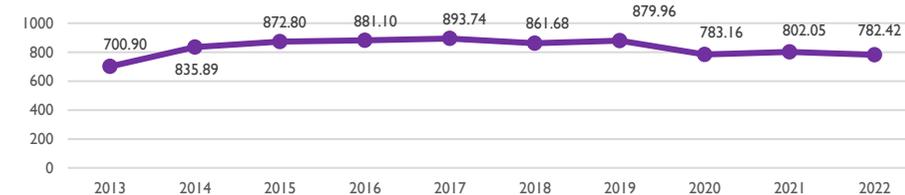
Graph 5.6.1.5. Norway: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 5.6.1.6. Norway: Natural Gas Use

2013 - 2022 | Scm per Capita



## 5.6.2 Reserves and Production

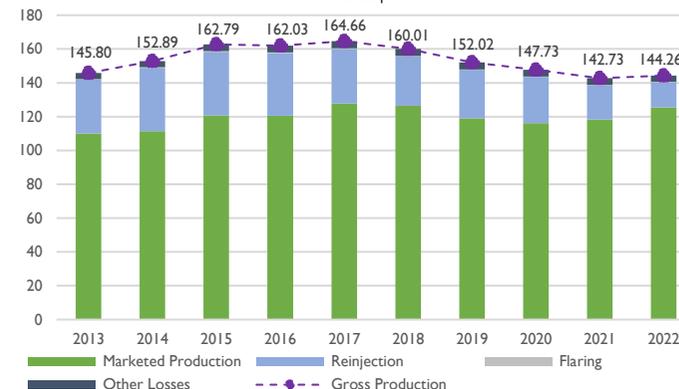
Table 5.6.2.1 Proven Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Proven Gas Reserves	2,654	2,547	2,461	2,388	2,334	2,226	2,165	2,095	2,072	1,959

Table 5.6.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Gross Production	145.80	152.89	162.79	162.03	164.66	160.01	152.02	147.73	142.73	144.26
Marketed Production	109.98	111.38	120.74	120.42	127.73	126.38	119.05	116.20	118.29	125.39
Reinjection	32.00	37.50	37.60	37.20	32.30	29.10	28.60	27.30	20.30	15.09
Flaring	0.30	0.34	0.44	0.43	0.43	0.38	0.32	0.25	0.27	0.18
Other Losses	3.52	3.67	4.01	3.98	4.19	4.15	4.05	3.98	3.87	3.60

Graph 5.6.2.1. Norway: Natural Gas Annual Production  
2013 - 2022 | Bcm



## 5.6.3 Domestic Consumption and Trade

Table 5.6.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Totals	3.56	4.29	4.53	4.61	4.72	4.58	4.71	4.21	4.34	4.27

Graph 5.6.3.1. Norway: Natural Gas Annual Domestic Consumption  
2013 - 2022 | Bcm



Table 5.6.3.2 Historical Trade: Natural Gas Exports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Pipeline (Bcm)</b>	103.08	102.23	108.38	107.87	116.68	114.28	107.91	107.81	113.28	117.14
<b>LNG</b>										
Bcm*	3.34	4.85	5.61	5.97	5.27	6.90	6.31	4.21	0.16	3.27
MMT	2.46	3.57	4.12	4.39	3.87	5.08	4.64	3.10	0.12	2.41
<b>Totals (Bcm)</b>	106.42	107.08	113.98	113.83	121.95	121.18	114.22	112.02	113.44	120.41

\* Gas equivalent

Graph 5.6.3.2. Norway: Natural Gas Trade and Marketed Production  
2013 - 2022 | Bcm

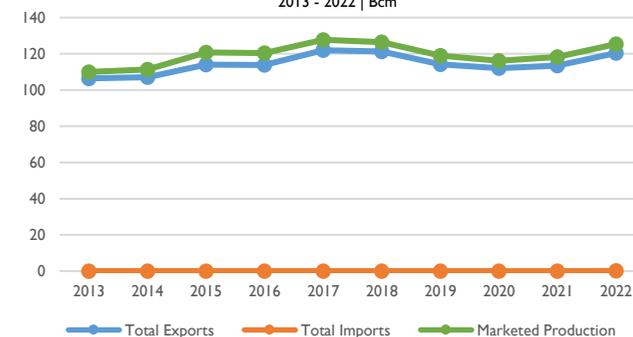


Table 5.6.3.3 Historical Trade: Natural Gas Imports

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>LNG</b>										
Bcm*	0.001	0.000	0.015	0.043	0.030	0.010	0.027	0.032	0.037	0.068
MMT	0.001	0.000	0.011	0.032	0.022	0.007	0.020	0.024	0.027	0.050
<b>Totals (Bcm)</b>	0.001	0.000	0.015	0.043	0.030	0.010	0.027	0.032	0.037	0.068

\* Gas equivalent

## 5.6.4 Transport and Plants

Table 5.6.4.1 Natural Gas Export Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)	
	From	To	Via									
<b>Norpipe</b>	Norway	Germany	-	Gassco AS	Gassco AS	Operational	11.7	Export	1977	440	36	
<b>Vesterled</b>	Norway	UK	-	Gassco AS	Gassco AS	Operational	14.2	Export	1978	360	32	
<b>Zeepipe I</b>	Norway	Belgium	-	Gassco AS	Gassco AS	Operational	15.3	Export	1993	808	40	
<b>Europipe I</b>	Norway	Germany	-	Gassco AS	Gassco AS	Operational	16.8	Export	1995	620	40	
<b>Franpipe</b>	Norway	France	-	Gassco AS	Gassco AS	Operational	20.1	Export	1998	840	42	
<b>Europipe II</b>	Norway	Germany	-	Gassco AS	Gassco AS	Operational	26.0	Export	1999	660	42	
<b>Langeled</b>	Norway	UK	-	Gassco AS	Gassco AS	Operational	26.3	Export	2006	536	44	
<b>Baltic Pipeline</b>	Norway	Poland	Denmark	Energinet, Gaz-System	Energinet, Gaz-System	Completed	10.0	Export	End2022	613	42	
<b>Total Expected Capacity</b>							<b>140.4</b>					

Table 5.6.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Snohvit LNG</b>	1	4.3	Operational	2007	Snohvit LNG Consortium	Snohvit LNG Consortium
<b>Stavanger</b>	1	0.33	Operational	2010	Skangas	Skangas
<b>Total Existing Capacity</b>		<b>4.63</b>				



Republic of  
**PERU**

AREA: **1,285,220 km<sup>2</sup>**



POPULATION  
**34,049,588**



CAPITAL  
**LIMA**



CONTINENT  
**SOUTH AMERICA**



CURRENCY  
**PERUVIAN SOL**



TIME ZONE  
**PERU (GMT-5)**

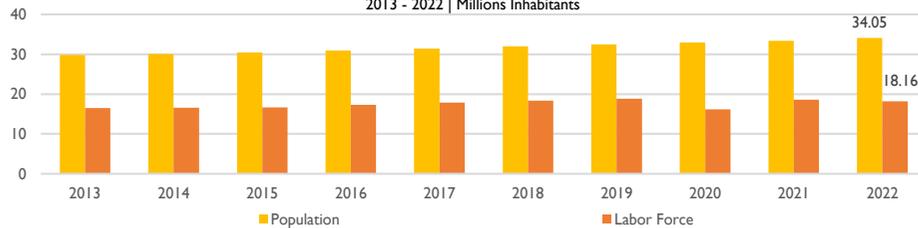
### 5.7.1 Macroeconomics

Table 5.7.1.1 Peru Macroeconomic Indicators

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Population</b> (Inhabitants)	29,773,986	30,090,372	30,470,739	30,926,036	31,444,299	31,989,265	32,510,462	32,971,846	33,359,416	34,049,588
<b>Labor Force</b> (Inhabitants)	16,511,392	16,606,063	16,632,754	17,321,378	17,829,194	18,321,791	18,798,564	16,201,831	18,566,550	18,156,333
<b>GDP</b> (Current Billion US\$)	201.18	200.79	189.81	191.90	211.01	222.60	228.32	201.71	223.25	242.63
<b>GDP Growth</b> (annual %)	5.85	2.38	3.25	3.95	2.52	3.97	2.24	-10.95	13.35	2.68
<b>GDP per capita</b> (Current US\$)	6,756.75	6,672.88	6,229.10	6,205.00	6,710.51	6,958.50	7,023.08	6,117.49	6,692.25	7,125.83
<b>Exports of Goods and Services</b> (Current Billion US\$)	49.91	45.39	40.40	43.37	52.16	56.08	54.89	45.14	64.93	71.13
<b>Exports of Goods and Services</b> (% of GDP)	24.81	22.61	21.29	22.60	24.72	25.19	24.04	22.38	29.09	29.32
<b>Imports of Goods and Services</b> (Current Billion US\$)	50.25	48.68	45.32	43.73	48.10	52.18	52.30	42.66	58.98	70.59
<b>Imports of Goods and Services</b> (% of GDP)	24.98	24.25	23.88	22.79	22.79	23.44	22.90	21.15	26.42	29.09
<b>Inflation consumer prices</b> (annual %)	2.77	3.41	3.40	3.56	2.99	1.51	2.25	2.00	4.27	8.33
<b>Energy use</b> (kg of oil equivalent per capita)	684.15	790.22	NA							
<b>Natural Gas use</b> (Scm per capita)	219.15	254.90	251.06	275.52	237.98	247.21	253.92	216.55	240.11	276.34

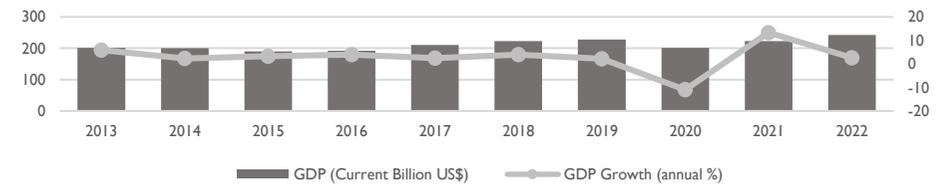
Graph 5.7.1.1. Peru: Population and Labor Force

2013 - 2022 | Millions Inhabitants



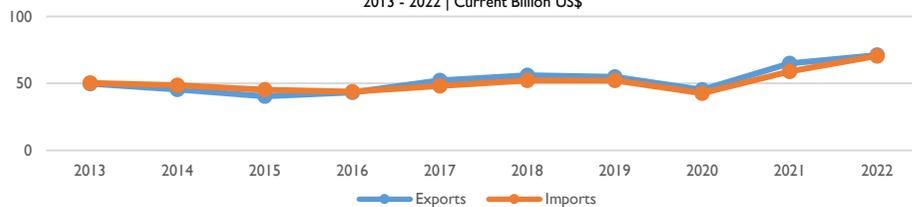
Graph 5.7.1.2. Peru: GDP and GDP Growth

2013 - 2022 | Current Billion US\$ and Annual %



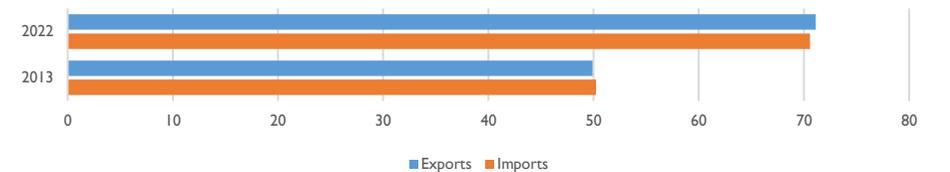
Graph 5.7.1.3. Peru: Exports and Imports (Goods and Services)

2013 - 2022 | Current Billion US\$



Graph 5.7.1.4. Peru: Exports and Imports (Goods and Services)

2013 vs 2022 | Current Billion US\$



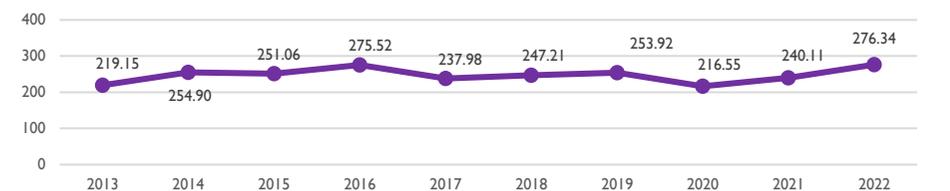
Graph 5.7.1.5. Peru: Inflation (Consumer Prices)

2013 - 2022 | Annual %



Graph 5.7.1.6. Peru: Natural Gas Use

2013 - 2022 | Scm per Capita



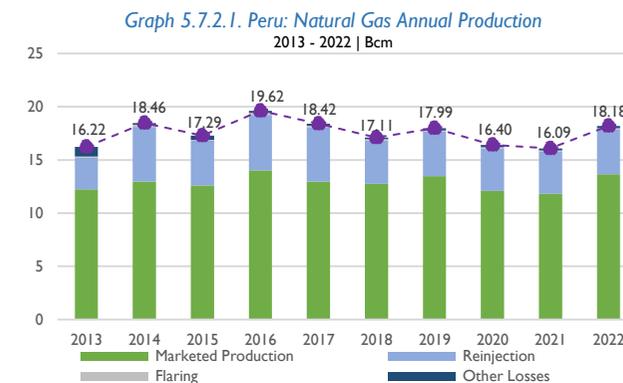
## 5.7.2 Reserves and Production

Table 5.7.2.1 Proven Natural Gas Reserves (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Proven Gas Reserves	426	414	399	456	365	300	300	300	287	237

Table 5.7.2.2 Historical Natural Gas Production (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Gross Production	16.22	18.46	17.29	19.62	18.42	17.11	17.99	16.40	16.09	18.18
Marketed Production	12.22	12.97	12.59	14.02	12.97	12.75	13.47	12.08	11.81	13.66
Reinjection	3.00	5.14	4.20	5.20	5.10	4.10	4.20	4.00	4.00	4.20
Flaring	0.10	0.21	0.10	0.20	0.14	0.11	0.11	0.11	0.08	0.12
Other Losses	0.90	0.14	0.40	0.20	0.21	0.15	0.21	0.21	0.20	0.20



## 5.7.3 Domestic Consumption and Trade

Table 5.7.3.1 Domestic Gas Consumption (Bcm)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Totals	6.53	7.67	7.65	8.52	7.48	7.91	8.26	7.14	8.01	9.41

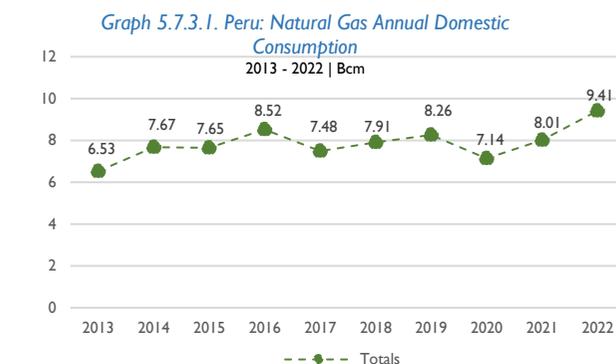
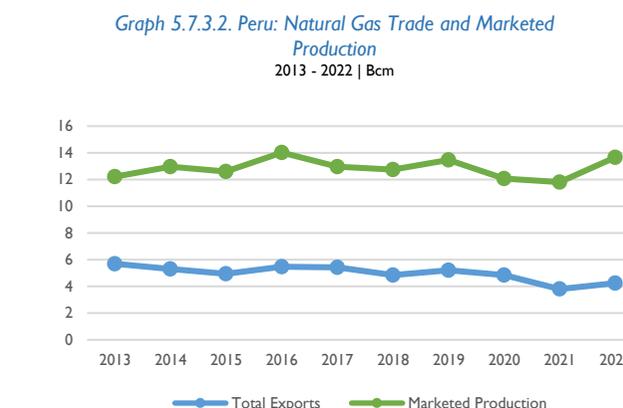


Table 5.7.3.2 Historical Trade: Natural Gas Exports

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
LNG	Bcm*	5.70	5.30	4.94	5.47	5.43	4.84	5.22	4.85	3.80	4.25
	MMT	4.19	3.90	3.63	4.02	3.99	3.56	3.84	3.57	2.79	3.30
Totals (Bcm)		5.70	5.30	4.94	5.47	5.43	4.84	5.22	4.85	3.80	4.25

\* Gas equivalent



## 5.7.4 Transport and Plants

Table 5.7.4.1 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
<b>Peru LNG Plant</b>	1	4.5	Operational	2010	Peru LNG Consortium	Hunt Oil Company



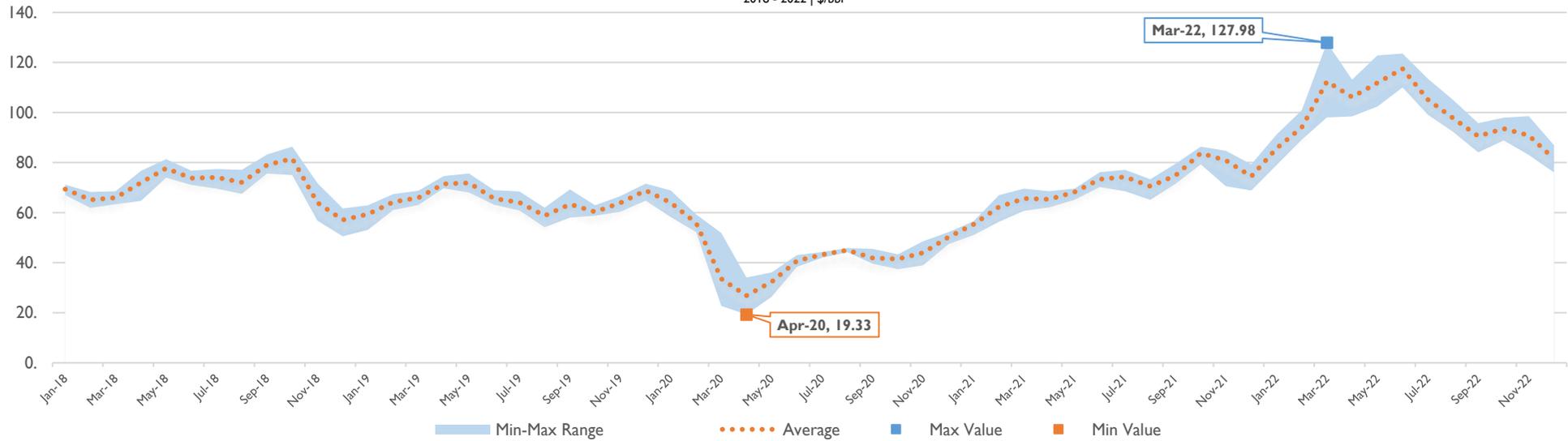


## Section 6

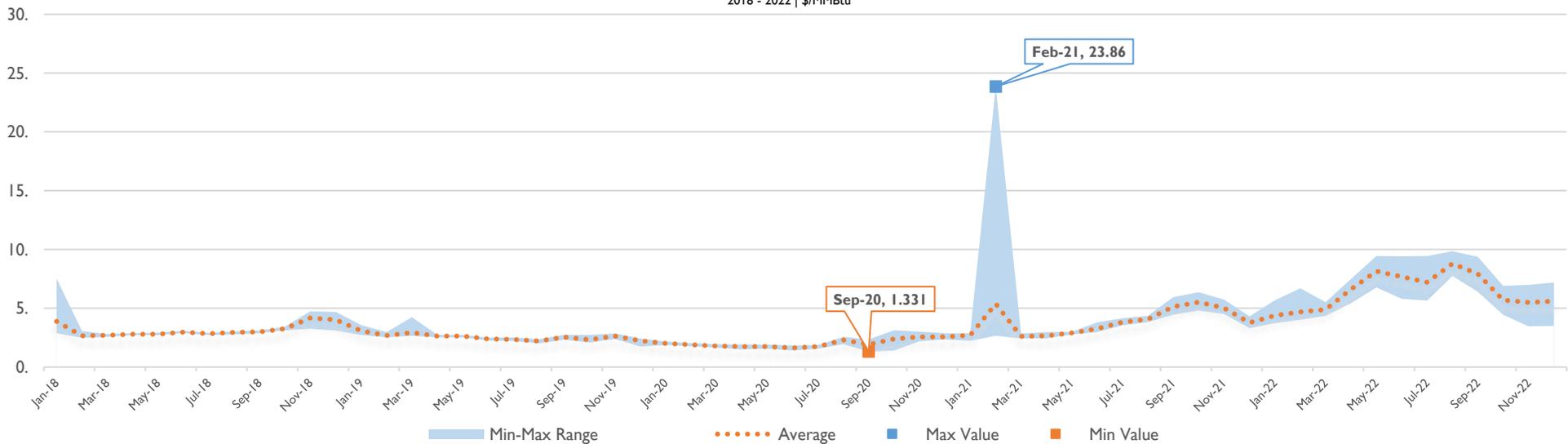
# Referential Gas Market Prices

6.1. Prices (Brent, HH)

Graph 6.1.1. Brent Crude Price  
2018 - 2022 | \$/bbl



Graph 6.1.2. HH Spot Price  
2018 - 2022 | \$/MMBtu

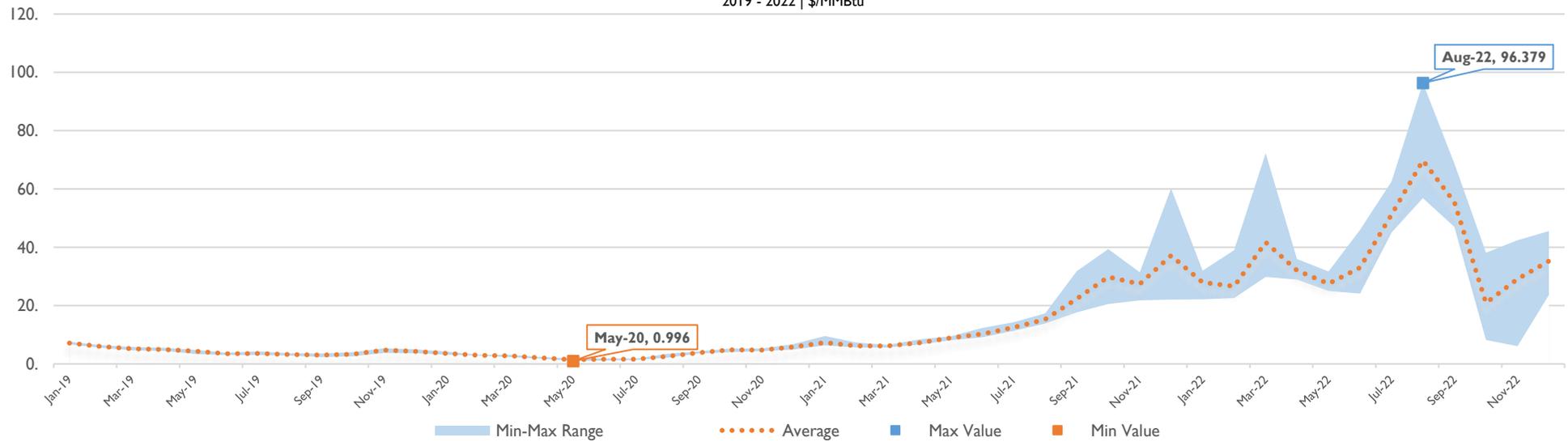


In nominal Dollars from Jan 2018 – Dec 2022 (Brent, Henry Hub, TTF Spot, NBP Day Ahead, NEA Spot LNG, SWE Sport LNG)

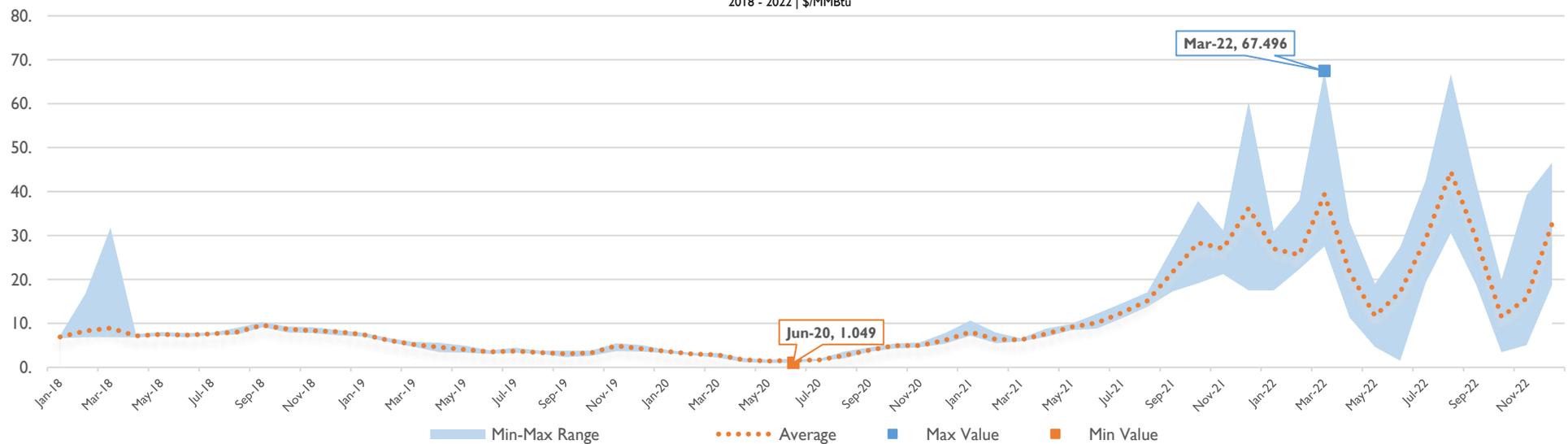
Source: GECF Secretariat based on data from Argus, Refinitiv Eikon

## 6.2. Prices (TTF, NBP)

Graph 6.2.1. TTF Spot LNG Price  
2019 - 2022 | \$/MMBtu



Graph 6.2.2. NBP Day Ahead Price  
2018 - 2022 | \$/MMBtu

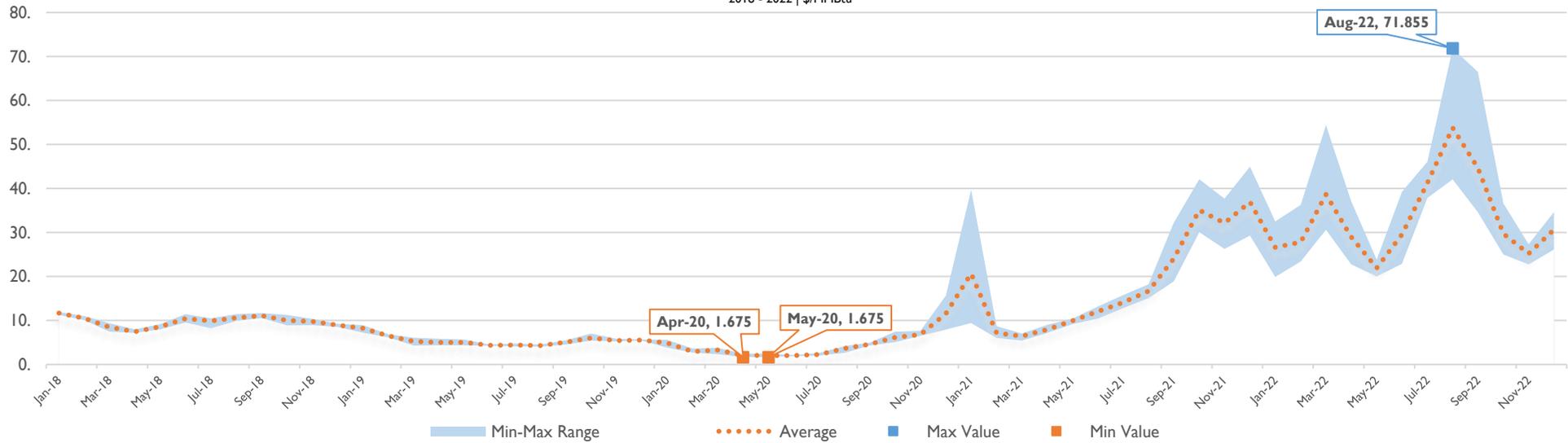


In nominal Dollars from Jan 2018 – Dec 2022 (Brent, Henry Hub, TTF Spot, NBP Day Ahead, NEA Spot LNG, SWE Sport LNG)

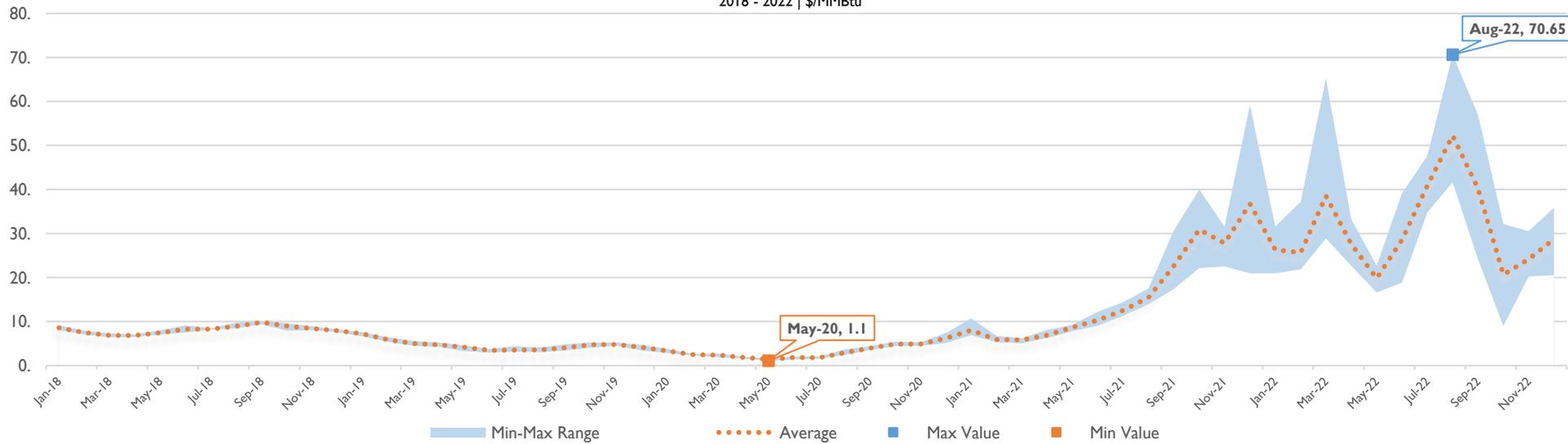
Source: GECF Secretariat based on data from Argus, Refinitiv Eikon

6.3. Prices (NEA, SWE)

Graph 6.3.1. NEA Spot LNG Price  
2018 - 2022 | \$/MMBtu



Graph 6.3.2. SWE Spot LNG Price  
2018 - 2022 | \$/MMBtu



In nominal Dollars from Jan 2018 – Dec 2022 (Brent, Henry Hub, TTF Spot, NBP Day Ahead, NEA Spot LNG, SWE Sport LNG)

Source: GECF Secretariat based on data from Argus, Refinitiv Eikon



### GEFC Main Deliverables

#### GEFC Daily Brief | Exclusive for GEFC Member Countries

The GEFC Gas Daily Brief is an initiative created by the GEFC Secretariat on 2014, issued on daily basis, only available to GEFC Member Countries through the GEFC Mobile Application, the GEFC Data Exchange Centre System and via email, covering daily price behaviour and price news, supply and demand, trade, technology, transportation & storage, assets and investments, economic & geopolitics, policy & regulations.

#### GEFC Monthly Short Term Gas Market Report | Exclusive for GEFC Member Countries

The Monthly Gas Market Report (MGMR), initiated in January 2016, aims to provide a monthly overview of the developments in gas markets to GEFC Members Countries. The reports covers the latest developments trends and assessment in the gas market worldwide and along the Gas Value Chain (Gas Production & Supply, Demand, LNG Trade, Shipping, Prices as well as the latest forecasts of the world economy).

#### GEFC Monthly/Quarterly Statistical Bulletin (MSB) | Exclusive for GEFC Member Countries

The Bulletin provides primary data gathered from GEFC Countries through the GEFC Data Exchange Mechanism, curated in the GEFC Databank. GEFC Secretariat, in close cooperation with the Special Envoys for Data & Statistics (SEDAS) from GEFC Member Countries, produce its content with focus on gas value chain data, portraying the status of Gas Markets and its changes.

#### GEFC MSB/QSB Collections | Exclusive for GEFC Member Countries

The Collections provides, in onw view, the data presented in the regular publications of the Secretariat, with data from GEFC Countries gathered through the GEFC Data Exchange Mechanism, curated in the GEFC Databank, and complemented with JODI-Gas data for Non-GEFC Countries, portraying the status of Gas Markets and its changes.

#### GEFC Annual Statistical Bulletin (ASB) | General audience

With the aim to be a reference tool for policy-makers, analysts, academics, researchers, scientists and others users of energy data, GEFC developed the first GEFC ASB in 2017 for general audience, recognizing that Data is essential to the global gas industry, encouraging the data transparency by producing this valuable report, considered a positive element for market stability and Sustainable Gas Development for GEFC Countries.

#### GEFC Regional Gas Statistical Reports | Exclusive for GEFC Member Countries

Released yearly, the Statistical Reports complement the series of Statistical Publications of the Secretariat, introducing figures from the perspective of UN Geographical Regions (Africa, Americas, Asia, Europe and Oceania) and the participation of GEFC in each one, using with JODI-Gas data of Non-GEFC Countries.

#### GEFC Annual Short-Term Gas Market Report (ASTGMR) | General audience

The GEFC Annual Short-Term Gas Market Report (ASTGMR) is an annual report providing a comprehensive short-term analysis on natural gas and LNG industry worldwide. It sheds light on different aspects of the gas industry (macroeconomics, natural gas supply, rig counts, natural gas demand, shipping activities, storage, natural gas and LNG trade as well as prices), highlighting the main risks and challenges that the gas industry is facing today and the developments in the gas and LNG industry over the current and the past two years, underscoring potential opportunities and challenges of gas producers.

#### GEFC Global Gas Outlook 2050 (synopsis) | General audience

The GEFC Global Gas Outlook (GGO) provides modelled long-term energy projections, based on assumptions concerning macroeconomic conditions, energy prices, and energy policies. As one of the Forum's annual flagship publications, it is unique, since is the only energy outlook worldwide to focus solely on natural gas. The GGO aims to be a global reference for insights into gas markets, offering an impartial view of gas market evolution by highlighting the potential developments and scenarios over the 2040 forecast horizon.

#### GEFC Monthly Gas Market Report | General audience

The GEFC Monthly Gas Market Report (MGMR) is the newest flagship publication from our team of highly-specialised experts, focusing on short-term developments in the global gas industry. It provides views on the global economy, gas consumption, gas production, gas trade including pipeline gas and LNG, gas storage, and energy prices. Furthermore, the report provides a comprehensive analysis of the key trends across each of these segments, and closely tracks new developments that may impact the global gas industry.

#### GEFC Gas Lectures | General audience

The Gas Lecture Series is a GEFC initiative designed to encourage discussions and debates on natural gas related topics in the energy sector, involving producers, consumer businesses, university staff, international governmental and non-governmental organisations, and the media. Since 2014, the lectures have featured prominent scholars, experts and leaders in the energy sector.

#### GEFC Workshops | Exclusive for GEFC Member Countries

The Secretariat of the GEFC regularly organizes workshops on a number of topics of interest, relevant to the Gas Industry, to contribute to the development of the global gas discourse.

#### Working Papers, Studies and Articles | Exclusive for GEFC Member Countries

The GEFC Secretariat actively develops papers, studies and articles, upon request of GEFC Member Countries, as part of its extensive research activities; aiming to provide an independent assessment on key features that are judged to have an important impact on the GEFC Member Countries and the world.

#### GEFC Website | General audience

As the information portal of forum, the GEFC Website is a rich source of information where the latest actions accomplished by the Secretariat can be reviewed, as well as its newest publications, general reference material about natural gas and detailed information about GEFC Countries.

#### GEFC Data Exchange Centre System | Exclusive for GEFC Member Countries

Using state-of-the-art technologies available to support the effort made with the establishment of the GEFC Data Exchange Mechanism, the Secretariat designed the GEFC Databank, a database for Primary Source Data collected from GEFC Member Countries. This highly valuable repository is managed through the GEFC Data Exchange Centre (DEC) System, an in-house developed system that provides to GEFC Member Countries a unique tool to get, review and analyse their data.

#### GEFC Members' Corner | Exclusive for GEFC Member Countries

The private area of GEFC Member Countries was developed in 2017, to enhance the data distribution of all Secretariat's products, creating a space for collaboration and aiming to implement in the short term more facilities that will contribute with the development of the Long Term Strategy and GEFC 5 Year Plan.

#### GEFC Mobile Application | Exclusive for GEFC Member Countries

Available for iOS and Android, the exclusive GEFC Mobile Application is the window that allows GEFC Member Countries to review the GEFC News Archive, Energy Prices and data of the GEFC Annual Statistical Bulletin.

For more detailed information, please consult GEFC Website: <http://www.gecf.org>





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