

**GECF**  
**Annual**  
**Statistical**  
**Bulletin**  
**2021**



**GECF**

GAS EXPORTING COUNTRIES FORUM



# GECF Annual Statistical Bulletin 2021

5<sup>th</sup> edition

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## Foreword



HE Dr. Yury P. Sentyurin | Secretary General, Gas Exporting Countries Forum (GECF)

Back to the year 2017, and thanks to the close and fruitful efforts of our colleagues in the Secretariat and the valuable assistance of the Special Envoys for Data and Statistics (SEDAS) from our Member Countries, the Executive Board members and, of course, with the guidance of the Honourable Ministers, the GECF was able to produce the first edition of the GECF Annual Statistical Bulletin (ASB). That initial challenge drove the Secretariat to create a valuable bulletin that aimed to add authenticity to our analysis fostering the credibility of GECF by presenting data from primary sources.

In 2021, I'm pleased to present the Fifth Edition of the Data and Statistics Flagship Publication of GECF. A result of a sustained effort, despite the global COVID-19 pandemic impact, among the SEDAS and the Secretariat. Indeed, a remarkable teamwork endeavour that has been recorded in this publication can be noted through the close attention to details that, unassumingly, this book exhibits. To each valuable contributor of every Member Country and in the Secretariat who supported the elaboration of this book, we would like to extend our sincere gratitude and acknowledgements. As done in previous publications, the book highlights that Gas Defines GECF, Data lead the way.

This year the GECF ASB contains primary data from our eleven Member Countries, namely Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago and Venezuela. As well as a selected set of indicators about Observer Countries, cultivating the path of data transparency set by our participation in the Joint Organization Data Initiative (JODI) for Gas, supporting the stability and security of the global natural gas markets.

In that sense, within the perspective of United Nations Climate Change Efforts and the Paris Climate Accords, and acknowledging the recognised importance of Natural Gas in the years to come to support the world sustainability and its development, we recognise that accurate and pertinent data is of paramount importance. That will allow sound scientific studies and research analysis based on its interpretation and further enhanced processing. Decision-makers will better assess the current circumstances and make the right choices by using the correct figures.

Having this motivation, the Secretariat unveils the GECF ASB 2021, expecting to add a humble contribution to these meaningful and crucial discussions. Hoping that our esteemed readers can find valuable insights in its content and further understand the previous years to move successfully to a bright future.

**Yury P. Sentyurin, Ph.D.**  
Secretary General

## Acknowledgements

To the Honourable Ministers of GECF Member Countries for their support and Guidance.

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

Mr. Antimo Asumu Obama Asangono, Special Envoy of the Equatorial Guinea.

Mr. Boris Ballester, Special Envoy of the Plurinational State of Bolivia.

Ms. Irina Ananich, Ms. Anastasia Lebedeva and Ms. Alyona Zaitseva, Special Envoy and Representatives of the Russian Federation.

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

Mr. Majid Badihi, Special Envoy of the Islamic Republic of Iran.

Dr. Miloud Medjelled, Special Envoy of the People's Democratic Republic of Algeria.

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

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

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

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To the Executive Board of GECF and Technical Economic Council Members for their appreciated orientations.

To the Gas Market Analysis Department (GMAD) and the Energy and Economic Forecasting Department (EEFD) of GECF for their esteemed feedback and comments.

To the Administration and Finance Department and Secretary General Office (SGO) of GECF for their valuable support.

## About Gas Exporting Countries Forum

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

In accordance with Our 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 and Venezuela. Angola, Azerbaijan, Iraq, Malaysia, Norway, Peru and United Arab Emirates have the status of Observer Members.

The first Secretary General of GECF, HE Leonid Bokhanovskiy, was appointed at the 9<sup>th</sup> Ministerial Meeting which was held in Doha, Qatar on the 9<sup>th</sup> December 2009.

HE S.M. Hossein Adeli was appointed as second Secretary General of GECF at the 15<sup>th</sup> Ministerial Meeting convened in Tehran, the Islamic Republic of Iran, on the 3<sup>rd</sup> November 2013.

The third and incumbent Secretary General of GECF, HE Dr. Yury P. Sentyurin, was appointed at the 19<sup>th</sup> Ministerial Meeting held in Moscow, Russian Federation on 4<sup>th</sup> October 2017.



22<sup>th</sup> Ministerial Meeting of the Gas Exporting Countries Forum (GECF) | 12<sup>th</sup> October 2020  
Algeria (videoconference)

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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</b> (kg of Oil Equivalent per Capita)	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</b> (% of GDP)	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</b> (current US\$)	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</b> (Current US\$)	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</b> (Annual %)	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</b> (Current US\$)	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</b> (Annual %)	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</b> (Scm per Capita)	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</b> (Feedstock)	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>	Kilometres.
<b>LNG</b>	Liquefied Natural Gas.
<b>MC</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>OC</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

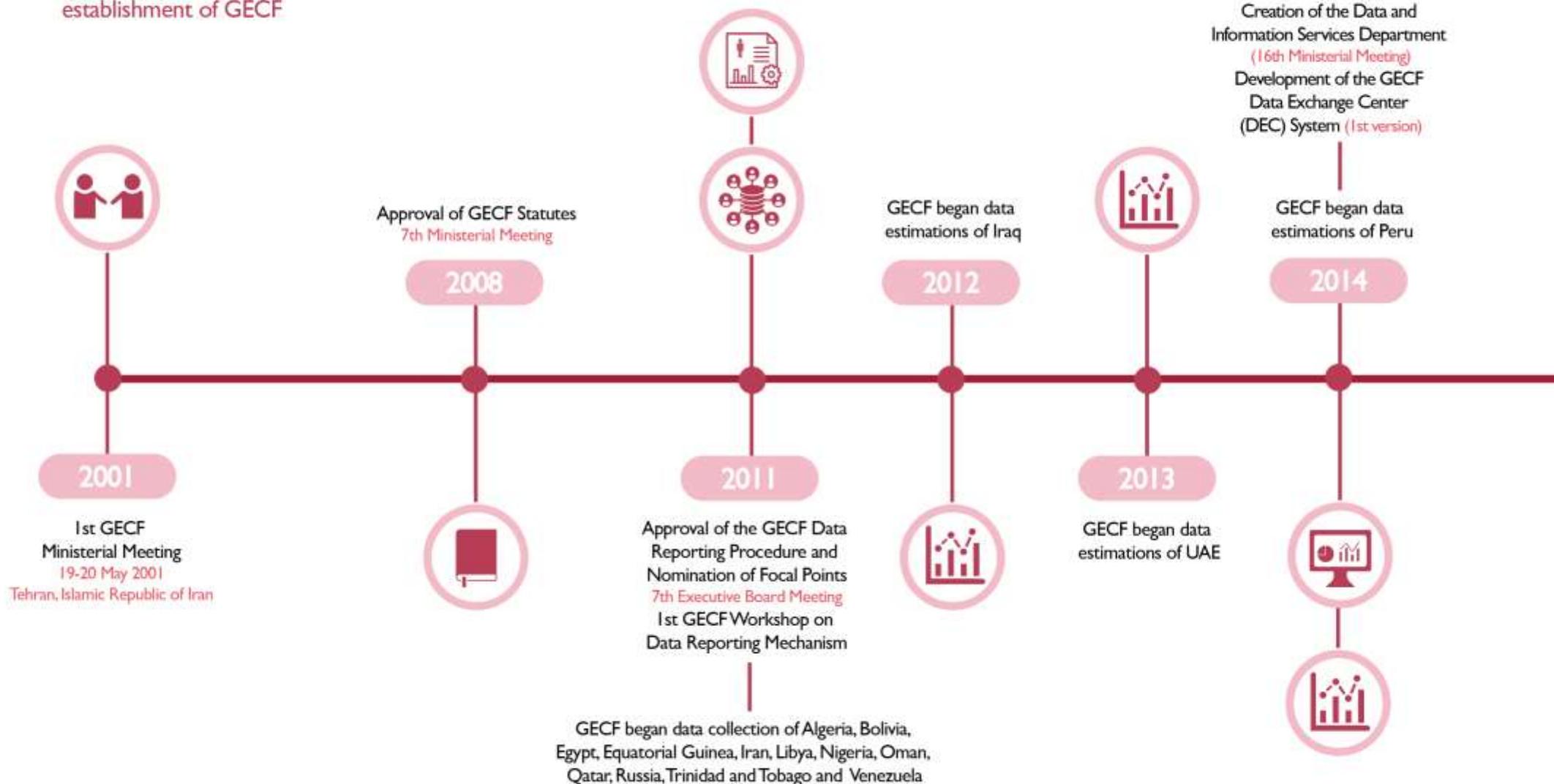
Section	Sources
<b>Macroeconomics</b>	<ul style="list-style-type: none"> <li>Otherwise, complemented with the World Bank data, available until September 23 2021.</li> <li>From Primary Sources whenever available.</li> </ul>
<b>Gas Chain figures (Proven Natural Gas Reserves, Gas Production, others)</b>	<ul style="list-style-type: none"> <li>From Primary Sources whenever available.</li> <li>Otherwise, complemented with GECF Secretariat estimations, or using data from the following Secondary Sources (namely alphabetically): Cedigaz, OPEC, the World Bank (EIA, EUROSTAT, OECD/IEA, United Nations Statistics).</li> </ul>
<b>Conversion Factors</b>	<ul style="list-style-type: none"> <li>Joint Organization Data Initiative (JODI) Gas Manual.</li> </ul>

## General Notes

- Current (2021) **GECF Member Countries**: Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago and Venezuela.
- Current (2021) **GECF Observer Countries**: Angola, Azerbaijan, Iraq, Malaysia, Norway, Peru and United Arab Emirates.
- 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:** (1) Figures calculated with the available data by the time of this publication. (2) Primary Data of Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago and Venezuela are since 2009; (3) Primary Data of Oman is for the period 2011-2014 and estimated from 2015-2020; (4) Primary Data of UAE is for the period 2013-2018 and estimations since 2019; (5) Estimated Data of Norway is from 2009; (6) Estimated Data of Iraq from 2012; (7) Estimated Data of Netherlands from 2009-2017; (8) Estimated data of Peru since 2014; (9) Estimated Data of Angola since 2018; (10) Estimated data of Azerbaijan and Malaysia since 2020.

# GECF Data Exchange Mechanism (DEM)

Created in 2011, in order to fulfill 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





2015

Development of the  
\*GECF Mobile App  
(1st version)

GECF began data  
estimations of Oman

1st Special Envoys  
of Data and Statistics  
(SEDAS) Meeting

2016



Development of the  
GECF Energy Database  
Production and  
Publication of the  
GECF Annual Statistical Bulletin  
(1st edition)

2017



1st GECF Workshop on  
Data and Statistics (GWDS)  
in a Member Country  
Production of the GECF  
\*Monthly Statistical  
Bulletin (1st edition)

GECF began data  
estimations of Angola;  
Netherlands' data is not  
included in the GECF ASB

2018



Development of the GECF  
Statistical Gas-Data Model  
Production of the GECF  
\*Quarterly Statistical  
Bulletin (1st edition)  
Production of the GECF  
\*Monthly Statistical  
Bulletin Collection  
(1st edition)

2019



Production of the GECF  
\*Quarterly Statistical  
Bulletin Collection  
(1st edition)

GECF began data  
estimations of UAE,  
Azerbaijan and Malaysia

2020



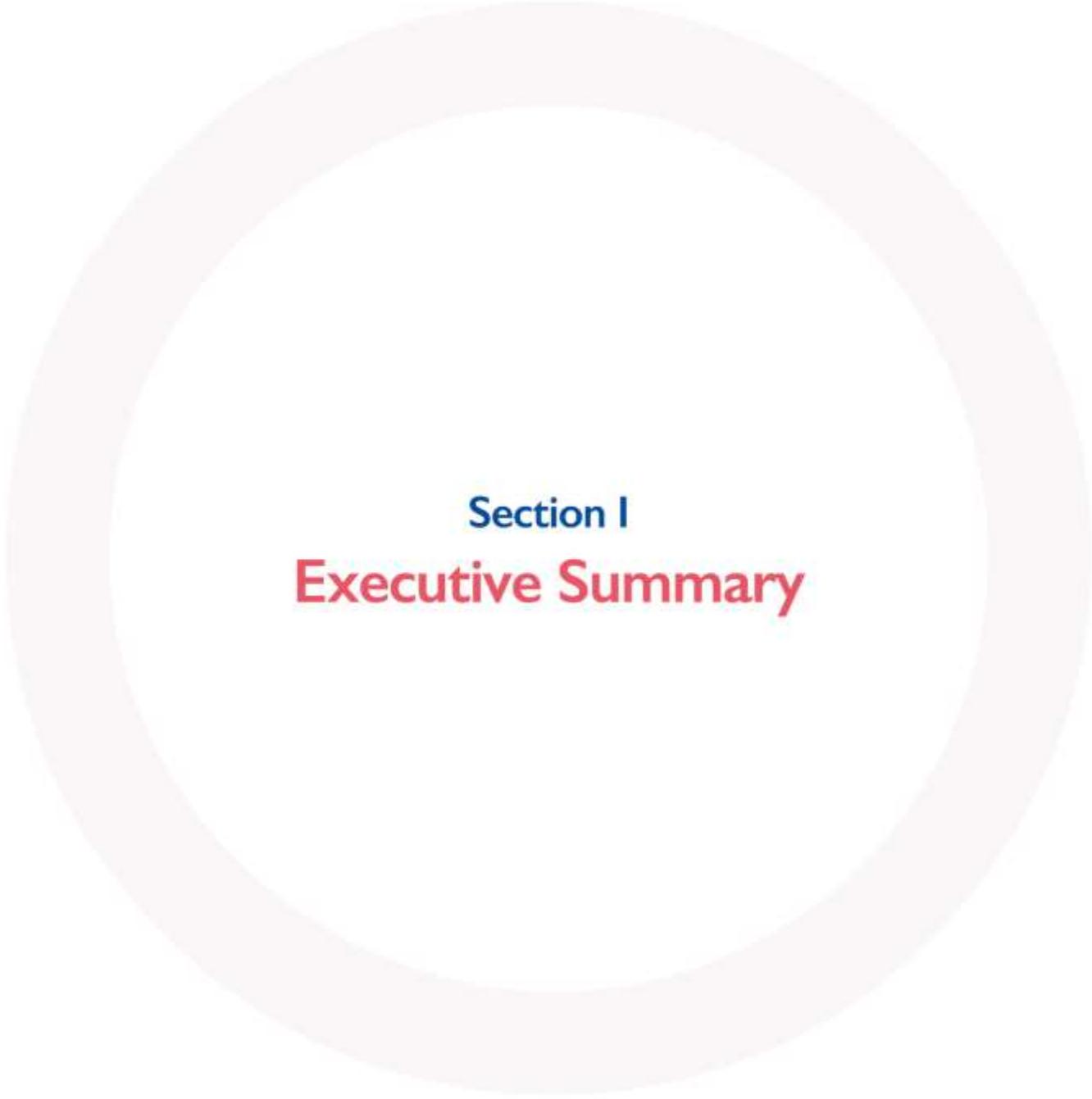
5th Anniversary Edition  
of the GECF Annual  
Statistical Bulletin  
Production of the GECF  
\*Regional Gas Statistical  
Reports (1st edition)

2021



\* Exclusively for Member Countries





**Section I**  
**Executive Summary**

## I.1 GECF Main Figures

Table I.1.1. GECF Gas Value Chain Figures (Bcm)

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
GECF Figures*	<b>Proven Natural Gas Reserves</b>	131,513	134,255	140,556	141,378	141,590	142,778	141,793	140,905	140,519	142,823	
	<b>Natural Gas Gross Production</b>	1,791.60	1,843.19	1,946.81	1,957.53	1,957.98	1,976.91	2,055.08	2,044.00	1,989.28	2,043.08	
	<b>Natural Gas Marketed Production</b>	1,430.83	1,468.32	1,535.77	1,535.35	1,548.45	1,566.50	1,601.23	1,625.22	1,590.85	1,643.53	
	<b>Natural Gas Domestic Consumption</b>	863.95	886.14	963.38	981.68	995.87	1,007.05	1,044.08	1,049.68	1,066.91	1,015.46	
	<b>Natural Gas Exports</b>	<b>Pipeline</b>	389.36	429.26	444.53	406.89	418.24	444.45	469.48	428.96	398.64	399.60
		<b>LNG</b>	210.26	207.86	211.53	212.78	212.47	212.48	222.30	235.89	260.85	279.69
<b>Totals</b>		599.62	637.12	656.05	619.67	630.71	656.93	691.78	664.85	659.49	679.29	

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

Graph I.1.1. GECF Natural Gas Gross and Marketed Production, Domestic Consumption and Exports (Total)  
2011 - 2020 | Bcm

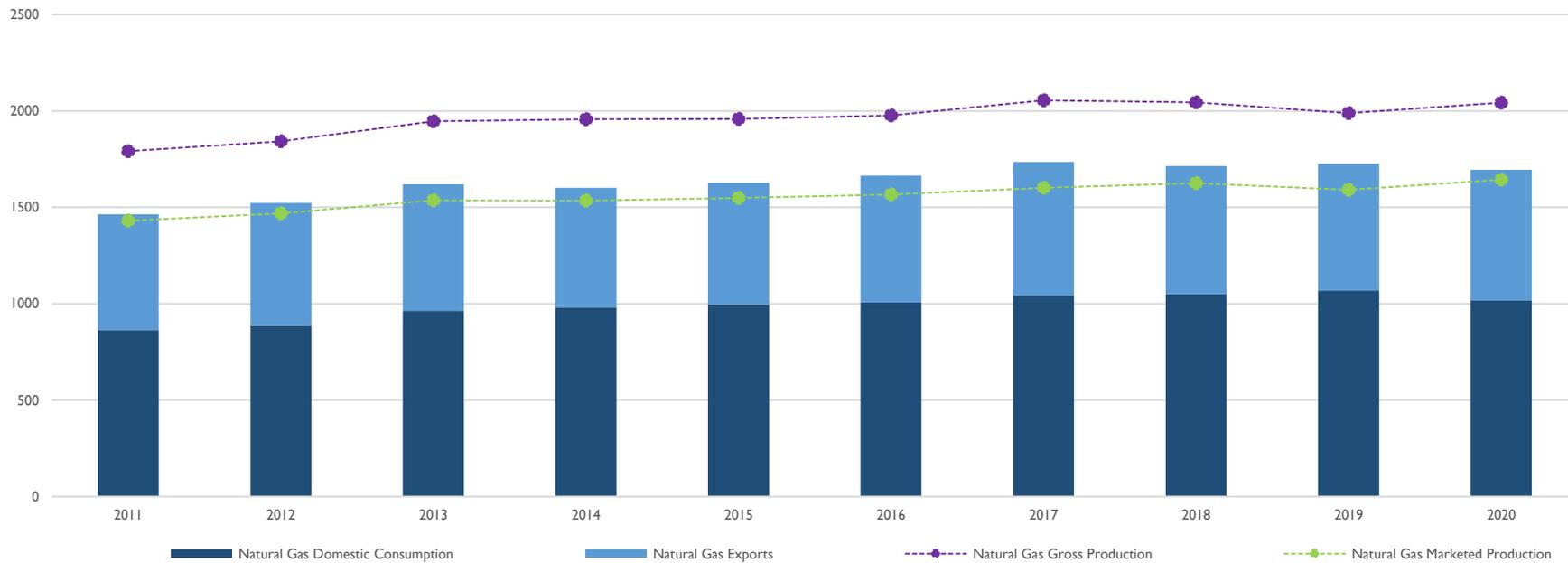
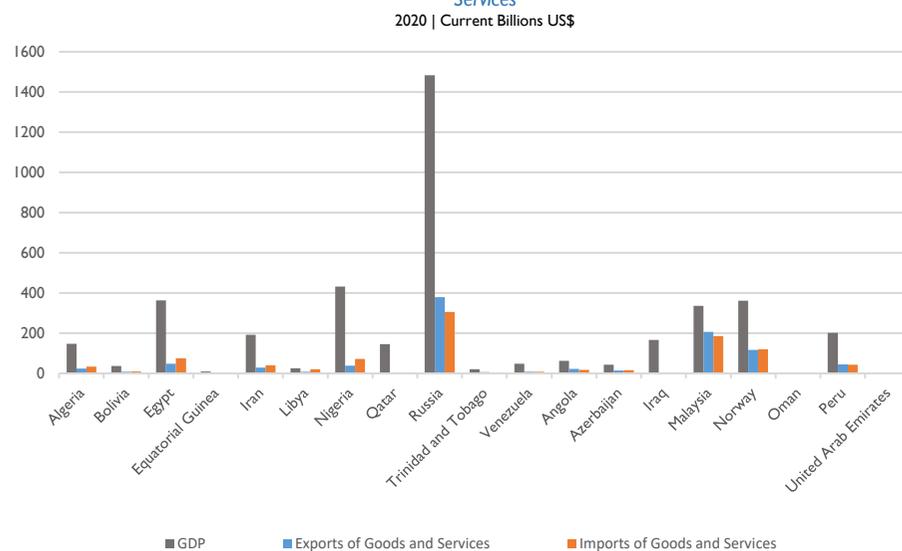


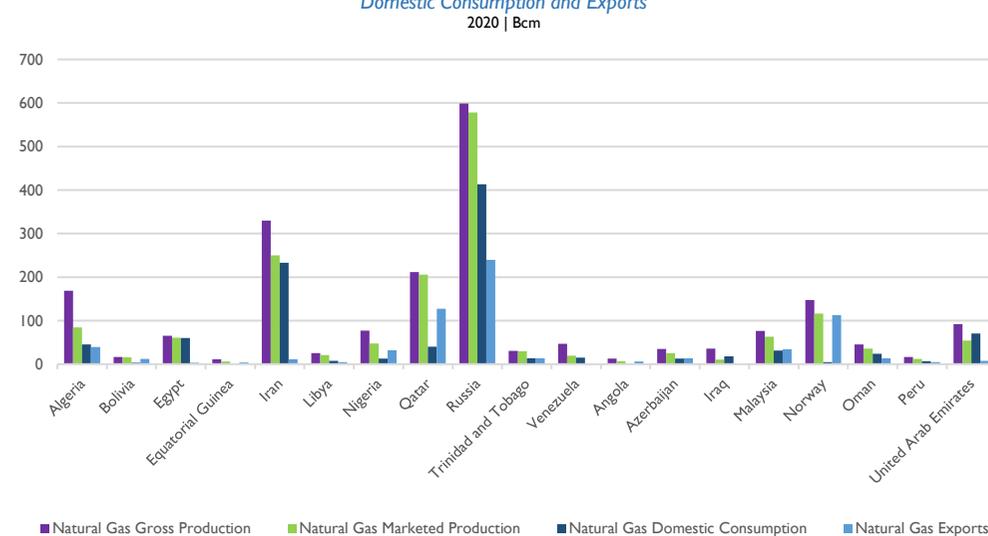
Table I.1.2. GECF Countries Main Figures in 2020

	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	44.23	147.64	-4.90	23.80	34.39	4,504	168.39	84.82	25.24	14.22	45.03
Bolivia	11.68	36.84	-8.83	7.50	9.32	253	16.38	15.81	11.81	-	3.60
Egypt	102.33	363.07	3.57	47.87	75.43	2,209	65.24	60.75	0.38	2.53	60.28
Equatorial Guinea	1.40	10.02	-4.89	4.34	4.66	39	11.15	6.02	-	4.03	1.88
Iran	83.99	191.72	1.66	28.82	40.49	33,988	329.86	249.63	11.52	-	233.00
Libya	6.87	25.42	-31.30	8.61	20.38	1,505	25.54	20.93	4.87	0.00	7.70
Nigeria	206.14	432.29	-1.79	38.17	71.63	5,750	77.23	47.94	0.89	31.04	13.19
Qatar	2.88	146.37	-3.67	NA	NA	23,831	211.50	205.72	22.62	104.84	40.49
Russia	146.30	1,483.50	-3.10	378.64	305.01	47,759	599.00	577.62	199.20	40.25	412.97
Trinidad and Tobago	1.37	21.06	-7.37	5.96	5.00	NA	30.87	30.16	-	13.92	13.27
Venezuela	28.44	47.26	-26.12	8.24	8.41	5,674	46.88	19.40	-	-	14.83
<b>Observers</b>											
Angola	32.87	62.31	-4.04	21.98	17.03	343	12.99	7.29	-	6.25	0.88
Azerbaijan	10.11	42.61	-4.31	15.21	15.54	1,917	35.34	25.14	13.40	-	12.53
Iraq	40.22	167.22	-10.37	NA	NA	3,714	35.54	10.86	-	-	18.08
Malaysia	32.37	336.66	-5.59	206.95	185.27	2,179	76.27	63.22	1.70	32.51	31.59
Norway	5.38	362.01	-0.76	117.13	119.26	2,095	147.62	116.20	107.98	4.29	4.50
Oman	5.11	NA	NA	NA	NA	673	45.16	35.67	-	13.27	24.15
Peru	32.97	202.01	-11.15	45.12	42.63	300	16.38	12.06	-	5.08	7.06
United Arab Emirates	9.89	NA	NA	NA	NA	6,090	91.72	54.29	-	7.46	70.46

Graph I.1.2. GECF Member, Observer Countries: GDP, Exports and Imports of Good and Services



Graph I.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

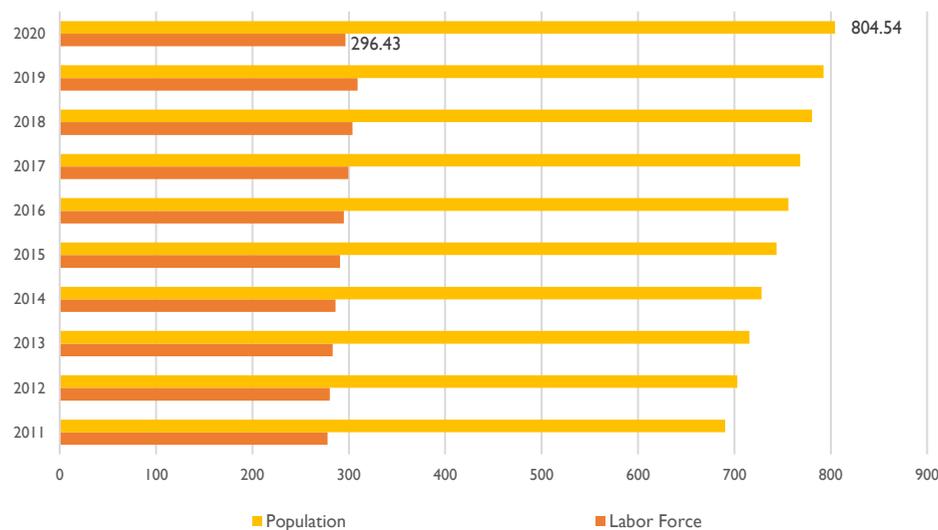
Table 2.1.1. GECF Countries Population (Million Inhabitants)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	36.66	37.38	38.14	39.10	40.07	40.84	41.70	42.63	43.42	44.23
Bolivia	10.19	10.36	10.52	10.69	10.85	11.02	11.18	11.35	11.51	11.68
Egypt	84.53	86.42	88.40	90.42	92.44	94.45	96.44	98.42	100.39	102.33
Equatorial Guinea	0.99	1.03	1.08	1.12	1.17	1.22	1.26	1.31	1.36	1.40
Iran	74.63	75.54	76.48	77.47	78.49	79.56	80.67	81.80	82.91	83.99
Libya	6.25	6.29	6.32	6.36	6.42	6.49	6.58	6.68	6.78	6.87
Nigeria	162.81	167.23	171.77	176.40	181.14	185.96	190.87	195.87	200.96	206.14
Qatar	2.04	2.20	2.34	2.46	2.57	2.65	2.72	2.78	2.83	2.88
Russia	142.96	143.20	143.51	143.70	146.50	146.80	146.90	146.90	146.80	146.30
Trinidad and Tobago	1.33	1.33	1.34	1.35	1.35	1.35	1.36	1.36	1.36	1.37
Venezuela	28.89	29.36	29.78	30.04	30.08	29.85	29.40	28.89	28.52	28.44
<b>Observers</b>										
Angola	24.22	25.11	26.02	26.94	27.88	28.84	29.82	30.81	31.83	32.87
Azerbaijan	9.17	9.30	9.42	9.54	9.65	9.76	9.85	9.94	10.02	10.11
Iraq	30.73	31.89	33.16	34.41	35.57	36.61	37.55	38.43	39.31	40.22
Malaysia	28.65	29.07	29.47	29.87	30.27	30.68	31.10	31.53	31.95	32.37
Norway	4.95	5.02	5.08	5.14	5.19	5.23	5.28	5.31	5.35	5.38
Oman	3.25	3.50	3.76	4.03	4.27	4.48	4.67	4.83	4.97	5.11
Peru	29.26	29.51	29.77	30.09	30.47	30.93	31.44	31.99	32.51	32.97
United Arab Emirates	8.95	9.14	9.20	9.21	9.26	9.36	9.49	9.63	9.77	9.89

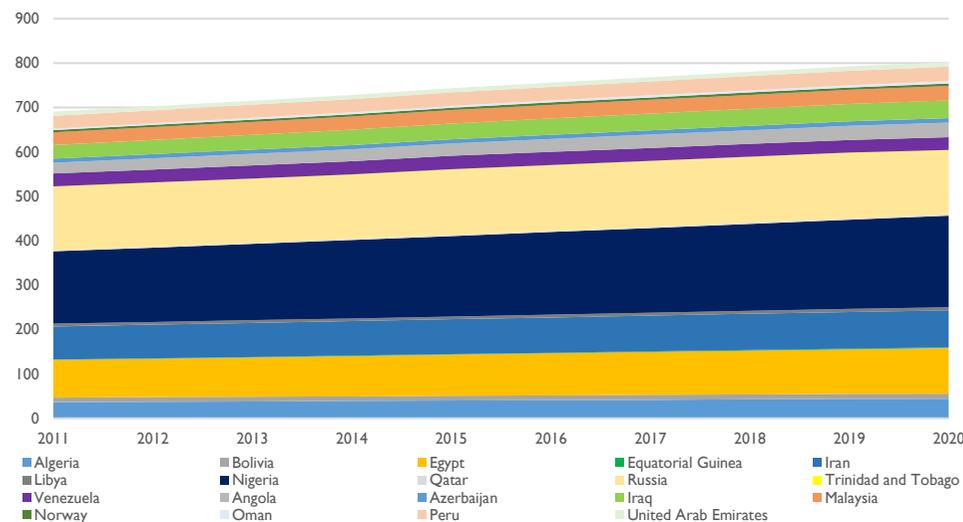
Table 2.1.2. GECF Countries Labor Force (Million Inhabitants)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	11.31	11.54	12.00	11.59	11.75	11.92	12.11	12.17	12.73	12.06
Bolivia	4.98	5.03	5.14	5.25	5.37	5.48	5.60	5.72	5.83	5.95
Egypt	27.83	28.58	29.41	29.97	29.54	29.89	29.63	29.28	29.78	29.08
Equatorial Guinea	0.38	0.39	0.41	0.43	0.46	0.47	0.49	0.51	0.53	0.54
Iran	24.16	24.27	24.36	24.42	25.36	26.56	27.42	27.77	28.21	26.81
Libya	2.17	2.20	2.22	2.24	2.26	2.30	2.34	2.38	2.42	2.39
Nigeria	54.54	53.69	52.79	53.70	54.56	55.29	57.86	60.52	63.23	62.24
Qatar	1.54	1.65	1.76	1.86	1.95	2.00	2.05	2.09	2.12	2.15
Russia	75.78	75.68	75.53	75.43	76.59	76.64	76.11	76.01	75.88	70.60
Trinidad and Tobago	0.64	0.65	0.65	0.66	0.65	0.64	0.63	0.63	0.67	0.60
Venezuela	12.93	13.09	13.34	13.49	13.55	13.32	13.01	12.60	12.00	11.06
<b>Observers</b>										
Angola	9.91	10.27	10.65	11.04	11.44	11.85	12.27	12.71	13.16	13.29
Azerbaijan	4.55	4.63	4.70	4.79	4.88	4.97	5.03	5.09	5.10	4.88
Iraq	7.60	7.96	8.51	9.08	9.49	9.81	9.80	10.16	10.47	10.36
Malaysia	12.83	13.34	13.94	14.29	14.62	14.86	15.15	15.52	15.78	15.90
Norway	2.63	2.67	2.70	2.72	2.76	2.77	2.76	2.80	2.83	2.84
Oman	1.56	1.75	1.96	2.16	2.35	2.48	2.57	2.59	2.68	2.68
Peru	16.17	16.37	16.50	16.59	16.62	17.01	17.85	18.41	18.92	16.18
United Arab Emirates	6.47	6.58	6.58	6.57	6.60	6.61	6.68	6.75	6.83	6.82

Graph 2.1.1. GECF Member and Observer Countries Population and Labor Force Totals | 2011 - 2020 | Million Inhabitants



Graph 2.1.2. GECF Member and Observer Countries Population Per Country | 2011 - 2020 | Million Inhabitants



## 2.2 GDP

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

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	200.02	209.06	209.76	213.81	165.98	160.13	167.56	173.76	171.15	147.64
Bolivia	24.14	27.28	30.88	33.24	33.24	34.19	37.78	40.58	41.19	36.84
Egypt	235.99	279.12	288.43	305.60	329.37	332.44	235.73	249.71	303.08	363.07
Equatorial Guinea	21.36	22.39	21.95	21.77	13.19	11.24	12.20	13.10	11.42	10.02
Iran	580.76	598.87	460.29	432.69	384.95	417.98	445.35	294.36	258.25	191.72
Libya	34.70	81.87	65.50	41.14	27.84	26.20	37.88	52.61	52.09	25.42
Nigeria	404.99	455.50	508.69	546.68	486.80	404.65	375.75	397.19	448.12	432.29
Qatar	167.78	186.83	198.73	206.22	161.74	151.73	161.10	183.33	175.84	146.37
Russia	2,045.93	2,208.30	2,292.47	2,059.24	1,363.48	1,276.79	1,574.20	1,657.33	1,687.45	1,483.50
Trinidad and Tobago	24.53	24.38	24.93	24.72	25.16	23.57	22.94	22.78	22.74	21.06
Venezuela	352.54	352.19	258.99	203.82	323.60	279.25	143.84	98.44	63.96	47.26
<b>Observers</b>										
Angola	111.79	128.05	136.71	145.71	116.19	101.12	122.12	101.35	89.42	62.31
Azerbaijan	65.95	69.68	74.16	75.24	53.07	37.87	40.87	47.11	48.17	42.61
Iraq	185.75	218.00	234.64	228.42	166.77	166.60	190.64	212.27	222.43	167.22
Malaysia	297.95	314.44	323.28	338.06	301.35	301.26	319.11	358.72	364.68	336.66
Norway	498.28	509.51	522.76	498.41	385.80	368.83	398.39	437.00	405.51	362.01
Oman	67.87	76.51	78.56	80.69	68.42	65.44	70.59	79.79	76.33	NA
Peru	171.76	192.65	201.18	200.79	189.81	191.90	211.01	222.57	228.47	202.01
United Arab Emirates	350.67	374.59	390.11	403.14	358.14	357.05	385.61	422.22	421.14	NA

Graph 2.2.1. GECEF Member and Observer Countries GDP Per Country | 2011 - 2020 | Current Billion US\$

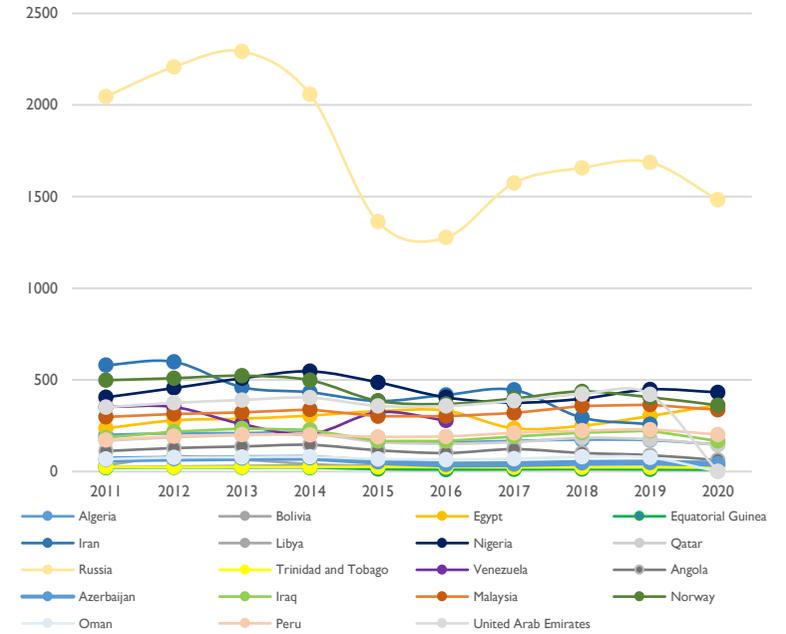
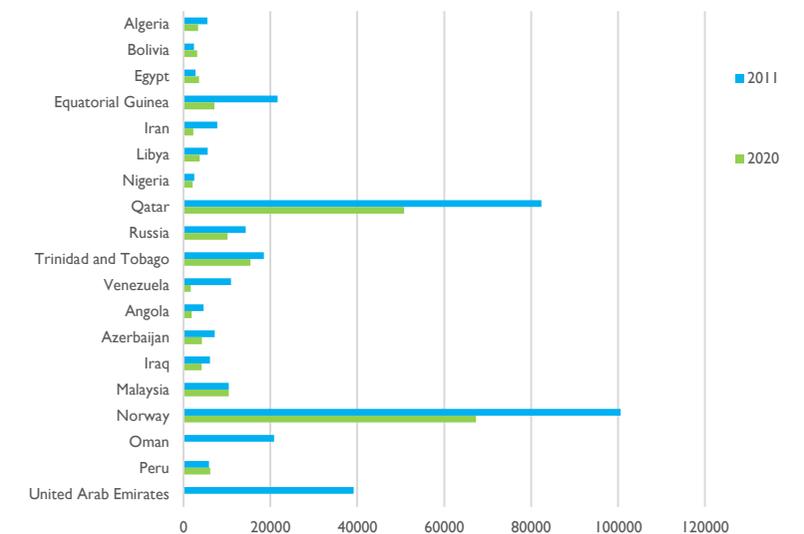


Table 2.2.2 GECEF Countries GDP per Capita (Current US\$)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	5,455.84	5,592.22	5,499.59	5,471.00	4,154.00	3,894.00	4,003.00	4,087.00	3,941.34	3,338.23
Bolivia	2,368.37	2,634.16	2,935.28	3,110.30	3,063.35	3,103.41	3,378.87	3,576.31	3,578.15	3,154.75
Egypt	2,791.81	3,229.69	3,262.66	3,379.56	3,562.93	3,519.87	2,444.29	2,537.13	3,019.09	3,547.87
Equatorial Guinea	21,641.69	21,711.15	20,390.74	19,394.08	11,283.40	9,250.32	9,667.86	10,005.62	8,419.93	7,143.24
Iran	7,781.41	7,927.84	6,018.32	5,585.53	4,904.33	5,253.43	5,520.31	3,598.48	3,114.62	2,282.55
Libya	5,554.18	13,025.28	10,363.80	6,466.91	4,337.92	4,035.20	5,756.70	7,877.12	7,685.95	3,699.23
Nigeria	2,487.60	2,723.82	2,961.55	3,098.99	2,687.48	2,176.00	1,968.57	2,027.78	2,229.86	2,097.09
Qatar	82,409.94	85,075.99	85,050.68	83,858.34	63,039.11	57,162.97	59,124.87	65,907.95	62,087.97	50,805.46
Russia	14,311.08	15,420.87	15,974.64	14,095.65	9,313.01	8,704.90	10,720.33	11,287.36	11,497.65	10,126.72
Trinidad and Tobago	18,506.07	18,267.05	18,600.28	18,375.38	18,642.56	17,412.50	16,909.39	16,754.60	16,673.67	15,410.24
Venezuela	10,955.54	12,986.22	12,457.77	16,055.65	10,757.16	9,354.68	4,892.14	3,407.64	2,242.96	1,661.81
<b>Observers</b>										
Angola	4,615.47	5,100.10	5,254.88	5,408.41	4,166.98	3,506.07	4,095.81	3,289.64	2,809.63	1,895.77
Azerbaijan	7,189.69	7,496.29	7,875.76	7,891.31	5,500.31	3,880.74	4,147.09	4,739.84	4,805.75	4,214.31
Iraq	6,045.49	6,836.07	7,076.55	6,637.68	4,688.32	4,550.66	5,076.69	5,523.08	5,658.49	4,157.48
Malaysia	10,399.37	10,817.43	10,970.10	11,319.06	9,955.24	9,817.79	10,259.30	11,377.65	11,414.20	10,401.79
Norway	100,600.56	101,524.14	102,913.45	97,019.18	74,355.52	70,460.56	75,496.75	82,267.81	75,826.08	67,294.48
Oman	20,876.59	21,872.61	20,865.79	20,035.22	16,033.46	14,609.98	15,127.89	16,521.21	15,343.04	NA
Peru	5,869.32	6,528.97	6,756.75	6,672.88	6,229.10	6,205.00	6,710.51	6,957.79	7,027.61	6,126.87
United Arab Emirates	39,194.67	40,976.49	42,412.64	43,751.81	38,663.40	38,141.87	40,644.79	43,839.32	43,103.34	NA

Graph 2.2.2. GECEF Member and Observer Countries GDP per Capita 2011 vs 2020 | Current US\$



## 2.3 Exports & Imports of Goods and Services

Table 2.3.1. Exports of Goods &amp; Services

	(Current Billion US\$)										(% of GDP)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>																				
<b>Algeria</b>	77.58	77.12	69.66	64.66	38.58	33.40	37.93	44.52	35.82	23.80	38.79	36.89	33.21	30.24	23.24	20.86	22.64	25.62	20.90	16.10
<b>Bolivia</b>	10.64	12.87	13.62	14.39	10.26	8.37	9.41	10.55	10.28	7.50	44.09	47.17	44.09	43.29	30.87	24.49	24.90	25.99	24.97	20.37
<b>Egypt</b>	48.54	45.77	49.09	43.53	43.42	34.39	37.29	47.23	53.04	47.87	20.57	16.40	17.02	14.24	13.18	10.35	15.82	18.91	17.50	13.18
<b>Equatorial Guinea</b>	16.04	16.10	14.85	14.36	7.47	5.78	7.18	7.81	6.03	4.34	75.10	71.90	67.65	65.96	56.66	51.41	58.86	59.61	52.81	43.33
<b>Iran</b>	148.87	144.50	123.74	100.13	76.00	93.65	111.08	97.81	65.25	28.82	25.63	24.13	26.88	23.14	19.74	22.40	24.94	33.23	25.27	15.03
<b>Libya</b>	19.03	61.10	46.14	19.34	11.13	6.85	18.92	29.96	33.53	8.61	54.83	74.62	70.43	47.01	39.97	26.14	49.94	56.95	64.37	33.89
<b>Nigeria</b>	128.05	143.70	91.82	100.78	51.92	37.30	49.49	61.55	63.73	38.17	31.62	31.55	18.05	18.44	10.67	9.22	13.17	15.50	14.22	8.83
<b>Qatar</b>	121.84	142.88	144.51	140.23	92.29	72.40	85.20	102.56	92.05	NA	72.62	76.47	72.72	68.00	57.06	47.71	52.89	55.94	52.35	NA
<b>Russia</b>	573.99	594.19	592.50	558.28	391.37	330.11	410.72	510.35	481.54	378.64	28.06	26.91	25.85	27.11	28.70	25.85	26.09	30.79	28.54	25.52
<b>Trinidad and Tobago</b>	14.19	12.28	17.84	13.81	11.73	8.50	9.64	10.76	8.76	5.96	57.86	50.35	71.57	55.87	46.61	36.08	42.04	47.22	38.54	28.32
<b>Venezuela</b>	94.76	99.79	91.88	80.52	37.25	27.61	33.89	33.60	20.68	8.24	26.88	28.33	35.48	39.51	11.51	9.89	23.56	34.14	32.33	17.43
<b>Observers</b>																				
<b>Angola</b>	67.82	71.63	69.38	65.13	34.57	28.44	35.42	41.39	35.18	21.98	60.67	55.94	50.75	44.70	29.75	28.12	29.00	40.84	39.34	35.28
<b>Azerbaijan</b>	37.21	36.91	35.91	32.56	20.06	17.58	19.84	25.48	23.63	15.21	56.43	52.97	48.42	43.27	37.79	46.43	48.55	54.09	49.05	35.70
<b>Iraq</b>	82.51	97.03	93.07	88.95	57.56	46.83	63.50	92.77	88.90	NA	44.42	44.51	39.66	38.94	34.51	28.11	33.31	43.70	39.97	NA
<b>Malaysia</b>	254.02	249.35	244.49	249.47	209.29	201.16	223.42	245.97	237.85	206.95	85.26	79.30	75.63	73.79	69.45	66.78	70.01	68.57	65.22	61.47
<b>Norway</b>	205.66	207.28	204.91	194.36	145.84	130.79	144.75	165.94	147.30	117.13	41.27	40.68	39.20	39.00	37.80	35.46	36.33	37.97	36.32	32.36
<b>Oman</b>	43.69	48.36	50.17	49.30	32.39	25.69	31.50	41.56	39.92	NA	64.37	63.21	63.87	61.10	47.34	39.26	44.62	52.09	52.30	NA
<b>Peru</b>	52.39	52.88	49.91	45.39	40.40	43.37	52.16	56.08	54.60	45.12	30.50	27.45	24.81	22.61	21.29	22.60	24.72	25.19	23.90	22.33
<b>United Arab Emirates</b>	315.87	375.51	392.24	401.37	361.25	360.63	384.04	392.86	389.37	NA	90.08	100.25	100.55	99.56	100.87	101.00	99.59	93.05	92.46	NA

Table 2.3.2 Imports of Goods &amp; Services

	(Current Billion US\$)										(% of GDP)									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>																				
<b>Algeria</b>	57.38	59.61	63.77	68.31	60.81	56.09	55.60	60.02	44.63	34.39	28.69	28.51	30.40	31.95	36.64	35.03	33.18	34.54	26.10	23.30
<b>Bolivia</b>	9.27	10.31	11.47	13.95	12.32	10.91	12.01	12.63	12.95	9.32	38.39	37.78	37.14	41.97	37.06	31.91	31.80	31.12	31.43	25.30
<b>Egypt</b>	58.26	67.87	67.36	69.30	71.35	66.16	69.09	73.33	78.01	75.43	24.69	24.31	23.36	22.68	21.66	19.90	29.31	29.37	25.74	20.77
<b>Equatorial Guinea</b>	8.39	10.02	8.61	8.36	5.57	4.63	5.32	5.77	4.76	4.66	39.28	44.77	39.24	38.42	42.22	41.19	43.57	44.03	41.70	46.45
<b>Iran</b>	101.97	139.20	107.94	92.87	74.20	86.98	106.16	93.67	79.81	40.49	17.56	23.24	23.45	21.46	19.27	20.81	23.84	31.82	30.91	21.12
<b>Libya</b>	15.54	32.54	42.46	37.80	20.68	11.55	15.07	18.85	27.66	20.38	44.79	39.75	64.83	91.88	74.28	44.08	39.79	35.82	53.10	80.17
<b>Nigeria</b>	87.73	59.15	66.12	68.06	51.92	46.55	49.51	69.55	88.74	71.63	21.66	12.99	13.00	12.45	10.67	11.50	13.18	17.51	19.80	16.57
<b>Qatar</b>	43.79	54.69	58.95	64.00	59.27	63.48	62.19	65.81	66.77	NA	26.10	29.27	29.67	31.04	36.65	41.83	38.61	35.90	37.97	NA
<b>Russia</b>	408.78	447.05	468.62	426.06	281.64	263.83	327.21	344.52	352.81	305.01	19.98	20.24	20.44	20.69	20.66	20.66	20.79	20.79	20.91	20.56
<b>Trinidad and Tobago</b>	9.02	11.08	12.04	10.70	7.53	7.09	6.45	6.62	6.03	5.00	36.78	45.44	48.29	43.29	29.93	30.07	28.12	29.05	26.53	23.72
<b>Venezuela</b>	62.33	92.40	109.49	151.45	36.50	17.98	13.36	13.51	7.19	8.41	17.68	26.23	42.28	74.30	11.28	6.44	9.29	13.72	11.24	17.79
<b>Observers</b>																				
<b>Angola</b>	43.95	45.92	49.30	50.47	38.50	25.53	28.40	25.89	22.30	17.03	39.31	35.86	36.06	34.64	33.13	25.25	23.25	25.54	24.94	27.33
<b>Azerbaijan</b>	15.88	17.62	19.48	19.72	18.47	16.53	17.10	17.71	17.71	15.54	24.08	25.29	26.26	26.21	34.81	43.65	41.85	37.58	36.77	36.47
<b>Iraq</b>	51.55	63.44	65.10	68.62	58.50	44.12	48.42	56.84	72.28	NA	27.75	29.10	27.75	30.04	35.08	26.48	25.40	26.78	32.50	NA
<b>Malaysia</b>	207.62	215.53	216.89	218.11	186.60	181.13	201.50	221.90	210.71	185.27	69.68	68.54	67.09	64.52	61.92	60.12	63.14	61.86	57.78	55.03
<b>Norway</b>	141.51	140.29	148.20	147.86	123.68	123.48	130.80	140.88	140.78	119.26	28.40	27.53	28.35	29.67	32.06	33.48	32.83	32.24	34.72	32.94
<b>Oman</b>	23.39	27.93	32.62	30.20	30.09	25.86	29.49	30.61	28.78	NA	34.46	36.50	41.53	37.43	43.98	39.52	41.78	38.37	37.71	NA
<b>Peru</b>	43.77	48.49	50.25	48.68	45.32	43.73	48.10	52.18	52.30	42.63	25.49	25.17	24.98	24.25	23.88	22.79	22.79	23.44	22.89	21.10
<b>United Arab Emirates</b>	215.97	239.75	252.51	277.89	266.28	270.44	290.78	281.54	288.40	NA	61.59	64.00	64.73	68.93	74.35	75.74	75.41	66.68	68.48	NA

## 2.4 Inflation

Table 2.4.1. Inflation Consumer Prices (Annual %)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	4.52	8.89	3.25	2.90	4.80	6.40	5.60	4.30	1.95	2.42
Bolivia	9.88	4.52	5.74	5.76	4.06	3.62	2.82	2.27	1.84	0.94
Egypt	10.06	7.11	9.47	10.07	10.37	13.81	29.51	14.40	9.15	5.04
Equatorial Guinea	4.81	3.66	2.95	4.31	1.68	1.41	0.75	1.35	1.24	4.77
Iran	26.29	27.26	36.60	16.61	12.48	7.25	8.04	18.01	39.91	NA
Libya	15.52	6.06	2.61	NA	NA	NA	NA	NA	NA	NA
Nigeria	10.84	12.22	8.48	8.06	9.01	15.68	16.52	12.09	11.40	NA
Qatar	1.14	2.32	3.22	3.35	1.81	2.68	0.39	0.26	-0.67	-2.54
Russia	6.10	6.57	6.47	11.35	12.91	7.04	2.51	4.26	3.04	3.38
Trinidad and Tobago	5.10	9.20	5.20	5.70	4.70	3.10	1.90	0.90	1.00	0.53
Venezuela	256.60	318.90	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
<b>Observers</b>										
Angola	13.48	10.28	8.78	7.28	9.15	30.70	29.84	19.63	17.08	NA
Azerbaijan	7.86	1.07	2.42	1.37	4.03	12.44	12.94	2.27	2.61	2.76
Iraq	5.80	6.09	1.88	2.24	1.39	0.56	0.18	0.37	-0.20	NA
Malaysia	3.17	1.66	2.11	3.14	2.10	2.09	3.87	0.88	0.66	-1.14
Norway	1.28	0.70	2.12	2.04	2.17	3.55	1.88	2.76	2.17	1.29
Oman	4.04	2.95	1.05	1.02	0.07	1.11	1.60	0.88	0.13	-0.90
Peru	3.37	3.66	2.81	3.24	3.55	3.59	2.80	1.32	2.14	1.83
United Arab Emirates	0.88	0.66	1.10	2.35	4.07	1.62	1.97	3.07	-1.93	-2.08

Graph 2.4.1 GECF Member and Observer Countries Inflation  
2011 - 2020 | Annual %



## 2.5 Energy Indicators

Table 2.5.1. Energy Intensity Level of Primary Energy (MJ/\$2011 PPP GDP)

	2011	2012	2013	2014	2015
<b>Members</b>					
Algeria	3.66	3.89	3.92	4.10	4.13
Bolivia	5.01	5.48	5.16	5.17	4.95
Egypt	3.78	3.80	3.57	3.71	3.51
Equatorial Guinea	2.61	2.61	2.52	2.63	2.21
Iran	6.46	7.20	7.48	7.70	7.79
Libya	8.27	5.09	6.63	4.44	4.21
Nigeria	6.20	6.26	5.96	5.63	5.68
Qatar	5.13	5.95	6.03	6.48	6.40
Russia	8.78	8.70	8.46	8.35	8.41
Trinidad and Tobago	20.81	20.01	20.03	19.14	19.09
Venezuela	5.62	5.79	5.38	5.47	4.72
<b>Observers</b>					
Angola	3.70	3.86	3.62	3.65	3.61
Azerbaijan	3.64	3.88	3.72	3.76	3.73
Iraq	4.08	4.01	4.04	4.03	3.72
Malaysia	5.13	4.95	5.33	5.13	4.68
Norway	3.77	3.89	4.23	3.58	3.75
Oman	6.76	6.79	6.74	6.38	6.30
Peru	2.58	2.62	2.46	2.78	2.79
United Arab Emirates	5.35	5.32	5.22	5.27	5.08

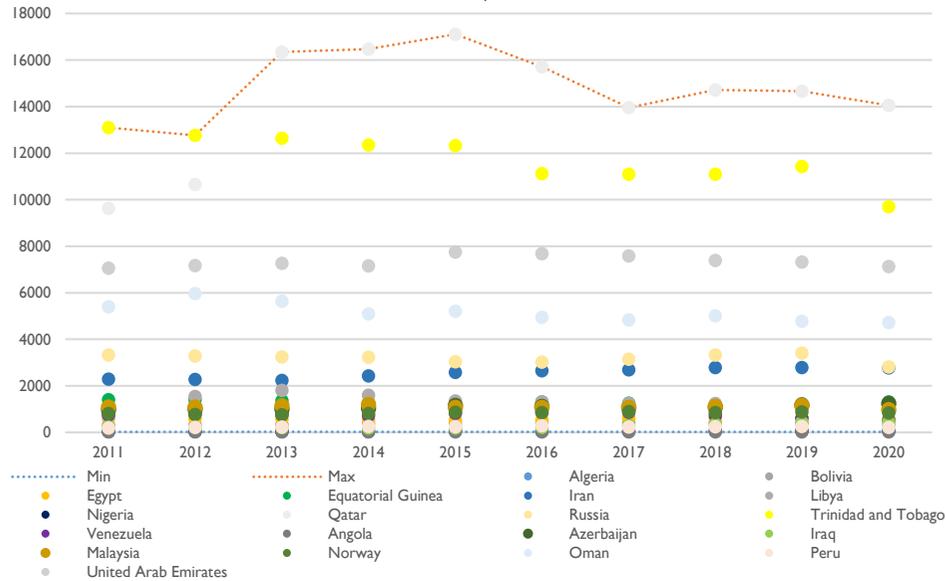
Table 2.5.2 Energy Use (kg of Oil Equivalent per Capita)

	2011	2012	2013	2014	2015
<b>Members</b>					
Algeria	1,140.64	1,229.55	1,247.50	1,333.90	1,368.70
Bolivia	629.06	663.11	668.44	714.37	731.92
Egypt	900.66	905.59	848.63	827.50	NA
Equatorial Guinea	NA	NA	NA	NA	NA
Iran	2,791.11	2,869.33	2,889.11	3,060.39	NA
Libya	2,190.81	2,744.01	3,071.82	2,808.65	NA
Nigeria	778.84	798.63	780.14	763.63	NA
Qatar	15,370.69	17,344.35	17,266.10	17,922.70	NA
Russia	5,049.43	5,167.01	5,078.63	4,942.88	NA
Trinidad and Tobago	14,775.95	14,312.42	14,478.85	14,363.57	NA
Venezuela	2,326.16	2,488.41	2,308.94	NA	NA
<b>Observers</b>					
Angola	521.78	552.36	533.76	544.61	544.61
Azerbaijan	1,369.35	1,472.90	1,474.00	1,502.08	1,502.08
Iraq	1,335.74	1,438.18	1,488.56	1,437.90	1,437.90
Malaysia	2,670.65	2,678.53	2,979.64	3,003.45	3,003.46
Norway	5,649.70	5,906.14	6,415.99	5,595.65	5,595.65
Oman	6,771.21	6,767.62	6,490.22	6,040.62	6,040.61
Peru	649.26	692.95	684.15	790.22	790.22

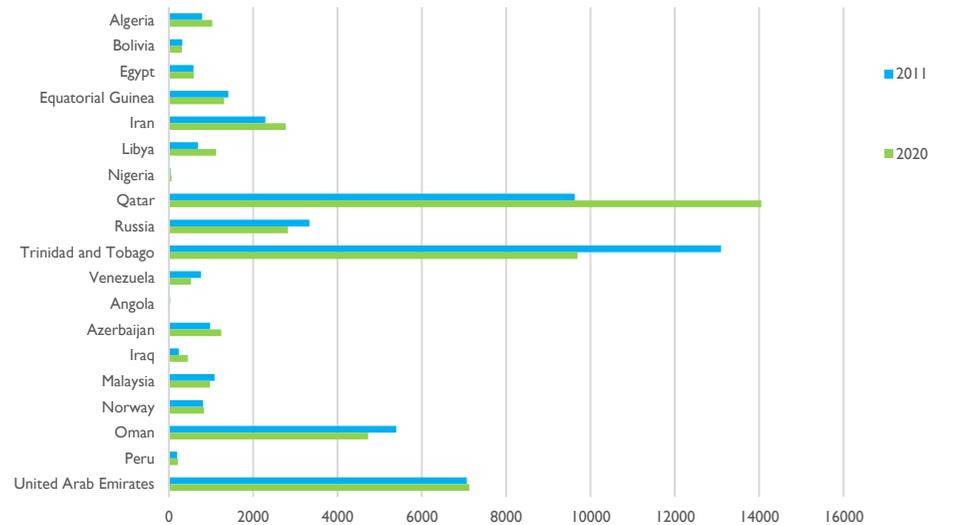
Table 2.5.3. Natural Gas Use (Scm per Capita)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	785.48	861.57	852.80	951.59	1,005.62	990.42	1,002.78	1,058.86	1,068.44	1,018.16
Bolivia	321.44	327.10	342.96	387.39	388.78	429.33	428.32	428.97	392.80	307.92
Egypt	586.96	608.33	581.62	531.04	516.33	542.94	602.73	624.33	604.71	589.02
Equatorial Guinea	1,410.53	1,410.99	1,365.65	1,282.22	1,101.34	1,310.92	1,248.80	1,162.31	1,095.34	1,311.20
Iran	2,288.34	2,281.31	2,243.27	2,427.14	2,585.86	2,653.84	2,699.26	2,785.14	2,788.68	2,774.01
Libya	688.54	1,545.08	1,809.18	1,598.16	1,353.82	1,308.99	1,239.99	1,245.09	1,238.30	1,119.73
Nigeria	37.84	43.81	44.83	43.82	61.32	47.74	58.00	62.13	60.19	63.97
Qatar	9,627.37	10,655.36	16,342.77	16,476.89	17,110.29	15,709.89	13,954.43	14,722.17	14,662.95	14,052.61
Russia	3,329.58	3,289.07	3,247.23	3,235.91	3,037.54	3,024.52	3,151.80	3,328.80	3,412.81	2,822.76
Trinidad and Tobago	13,098.64	12,763.85	12,646.19	12,351.38	12,329.65	11,123.26	11,093.83	11,096.72	11,431.34	9,697.03
Venezuela	757.13	793.17	753.43	732.68	829.67	872.66	869.65	734.68	615.42	521.36
<b>Observer Countries</b>										
Angola	31.05	30.27	31.60	23.72	27.61	26.90	26.46	23.17	25.85	26.85
Azerbaijan	980.43	1,004.32	1,001.22	1,053.67	1,152.19	1,112.17	1,065.06	1,085.10	1,176.07	1,239.41
Iraq	235.07	217.28	204.81	197.98	195.35	219.79	284.63	355.25	443.00	449.54
Malaysia	1,086.83	1,085.39	1,147.05	1,195.90	1,081.56	1,076.74	1,079.40	1,118.25	1,152.96	976.02
Norway	808.75	774.76	763.31	810.70	872.50	861.40	896.75	856.63	877.18	837.19
Oman	5,395.09	5,969.07	5,639.07	5,094.76	5,212.68	4,938.85	4,836.59	5,021.00	4,775.99	4,729.06
Peru	195.12	224.02	235.78	254.57	251.72	288.99	238.20	241.50	255.30	213.97
United Arab Emirates	7,064.00	7,175.99	7,273.39	7,152.02	7,754.59	7,686.17	7,587.06	7,396.97	7,324.77	7,123.69

Graph 2.5.1 GECF Member and Observer Countries Natural Gas Use 2011 - 2020 | Annual %



Graph 2.5.2. GECF Member and Observer Countries Natural Gas Use 2011 vs 2020 | Scm Per Capita







Section 3

**GECF in the World**

### 3.1 Proven Natural Gas Reserves

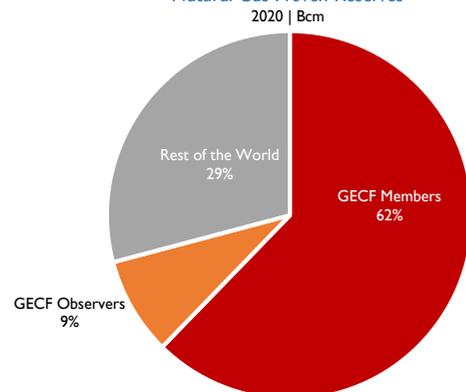
Table 3.1.1. Historical Proven Natural Gas Reserves of GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	200,720	200,512	200,988	201,221	200,632	202,114	204,313	204,609	205,125	201,440
GECF Totals	131,513	134,255	140,556	141,378	141,590	142,778	141,793	140,905	140,519	142,823
Members	127,663.43	127,454.71	133,847.14	134,459.60	134,042.05	134,669.13	133,949.48	133,589.00	133,323.03	125,511.79
Observers	3,850.00	6,800.00	6,709.00	6,918.00	7,548.00	8,108.50	7,843.19	7,316.21	7,195.54	17,311.00
GECF Share	66%	67%	70%	70%	71%	71%	69%	69%	69%	71%

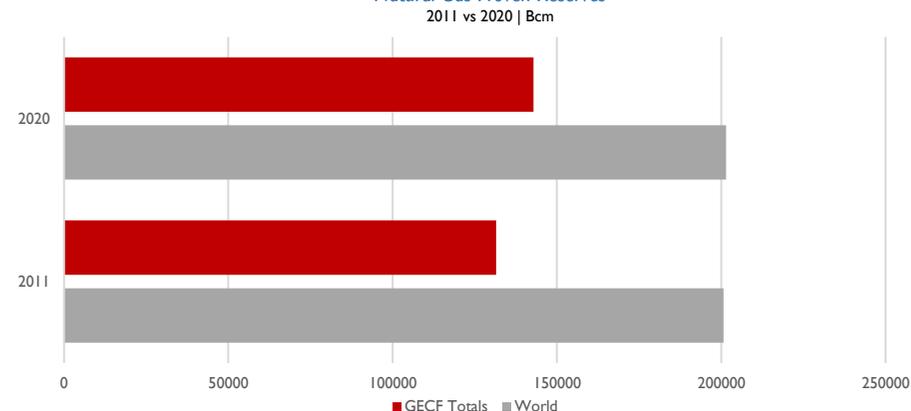
Table 3.1.2. Proven Natural Gas Reserves of Current GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<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	250	231	296	296	296	296	255	253	253	253
Egypt	2,119	1,957	1,777	2,186	2,086	2,221	2,221	2,221	2,221	2,209
Equatorial Guinea	78	71	66	60	54	47	42	42	39	39
Iran	33,790	33,710	33,850	33,440	33,720	33,820	33,330	33,899	33,988	33,988
Libya	1,547	1,549	1,506	1,505	1,505	1,505	1,505	1,505	1,505	1,505
Nigeria	5,171	5,115	5,108	5,303	5,280	5,475	5,627	5,685	5,761	5,750
Qatar	25,110	25,069	24,681	24,531	24,299	24,073	23,861	23,846	23,831	23,831
Russia	48,676	48,810	49,335	49,896	50,205	50,617	50,508	49,571	49,154	47,759
Trinidad and Tobago	375	371	347	326	300	281	298	298	302	NA
Venezuela	5,528	5,563	5,581	5,617	5,702	5,740	5,708	5,674	5,674	5,674
<b>Observers</b>										
Angola	275	275	275	308	308	440	422	384	343	343
Azerbaijan	1,317	1,308	1,300	1,292	1,284	1,277	1,270	1,435	1,917	1,917
Iraq	3,158	3,158	3,158	3,158	3,158	3,820	3,744	3,729	3,714	3,714
Malaysia	2,547	2,607	2,782	2,849	2,842	2,470	2,346	2,290	2,217	2,179
Norway	2,685	2,687	2,654	2,547	2,461	2,388	2,334	2,226	2,165	2,095
Oman	515	505	706	705	705	705	705	677	674	673
Peru	359	435	426	414	399	456	365	300	300	300
United Arab Emirates	6,091	6,091	6,091	6,091	6,091	6,091	6,091	6,091	6,091	6,090

Graph 3.1.1. GECF Countries and Rest of the World Natural Gas Proven Reserves



Graph 3.1.2. GECF Countries vs Rest of the World Natural Gas Proven Reserves



### 3.2 Natural Gas Production

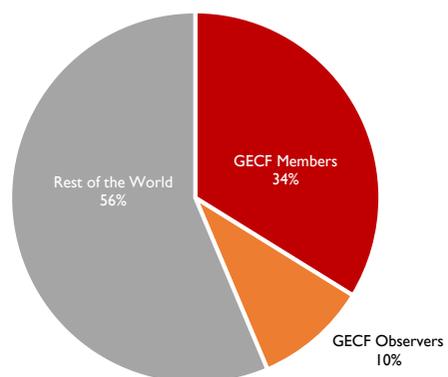
Table 3.2.1. Historical Natural Gas Gross Production of GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	4,100.24	4,173.81	4,235.53	4,309.14	4,369.00	4,394.08	4,492.70	4,689.05	4,780.88	4,683.73
GECF Totals	1,791.60	1,843.19	1,946.81	1,957.53	1,957.98	1,976.91	2,055.08	2,044.00	1,989.28	2,043.08
Members	1,575.94	1,588.63	1,688.37	1,686.53	1,655.06	1,671.66	1,754.12	1,772.83	1,724.61	1,582.05
Observers	215.66	254.56	258.44	271.00	302.92	305.26	300.96	271.17	264.68	461.03
GECF Share	44%	44%	46%	45%	45%	45%	46%	44%	42%	44%

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

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	190.13	182.60	179.49	186.75	183.83	189.14	188.74	183.55	175.35	168.39
Bolivia	16.45	18.71	21.27	22.39	22.17	21.33	20.70	19.34	17.05	16.38
Egypt	66.46	66.02	61.36	54.10	49.34	46.71	55.77	65.83	72.18	65.24
Equatorial Guinea	11.03	11.94	13.99	13.66	15.45	14.76	13.80	12.96	12.20	11.15
Iran	227.48	229.14	229.83	245.68	256.98	277.39	301.45	311.49	322.50	329.86
Libya	9.86	23.44	22.88	20.94	22.56	24.59	27.55	30.32	32.66	25.54
Nigeria	84.01	84.85	79.63	86.33	85.22	76.78	79.49	80.27	81.05	77.23
Qatar	150.02	163.03	171.06	173.40	175.92	172.17	171.40	175.42	181.31	211.50
Russia	670.80	654.68	667.59	642.81	633.54	640.81	692.00	694.32	644.09	599.00
Trinidad and Tobago	43.04	42.57	42.82	42.03	39.59	34.42	34.70	36.46	36.36	30.87
Venezuela	73.27	75.97	76.44	76.72	80.20	82.16	76.89	67.44	56.21	46.88
<b>Observers</b>										
Angola	10.73	10.85	10.76	10.44	10.54	11.71	14.98	13.94	12.90	12.99
Azerbaijan	24.58	26.40	27.85	28.22	27.83	27.91	27.07	28.41	33.16	35.34
Iraq	24.13	26.22	27.30	28.50	29.78	33.82	34.65	35.80	36.74	35.54
Malaysia	76.42	76.98	80.86	81.53	78.99	80.19	82.95	80.23	82.15	76.27
Norway	134.98	148.00	144.81	152.71	162.74	161.90	164.56	159.90	152.02	147.62
Oman	33.39	35.69	37.69	37.42	38.58	39.65	38.91	44.42	44.95	45.16
Peru	14.66	15.96	16.43	18.65	17.19	19.68	18.44	17.11	18.07	16.38
United Arab Emirates	82.43	83.21	84.32	84.31	90.27	91.40	91.63	95.43	93.66	91.72

Graph 3.2.1. GECF Countries and Rest of the World Natural Gas Gross Production 2020 | Bcm



Graph 3.2.2. GECF Countries vs Rest of the World Natural Gas Gross Production 2011 vs 2020 | Bcm

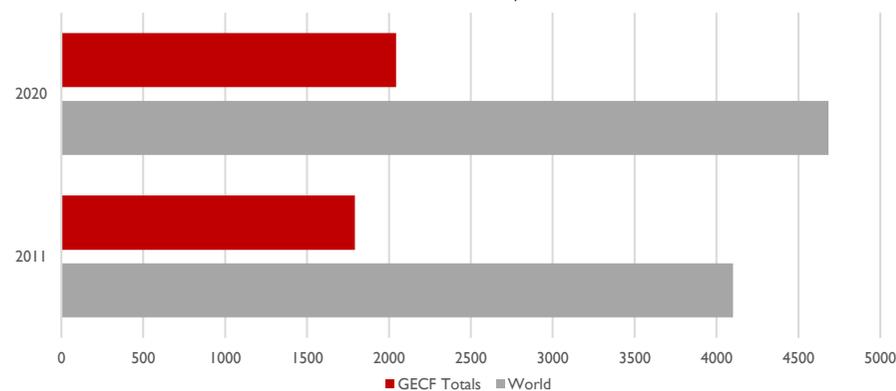


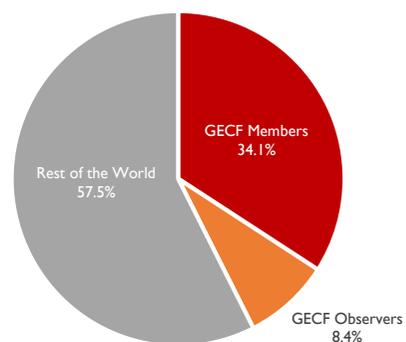
Table 3.2.3. Historical Natural Gas Marketed Production of GEFC Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	3,348.08	3,410.34	3,465.96	3,523.19	3,573.12	3,604.66	3,700.58	3,890.69	3,927.95	3,864.38
GEFC Totals	1,430.83	1,468.32	1,535.77	1,535.35	1,548.45	1,566.50	1,601.23	1,625.22	1,590.85	1,643.53
Members	1,249.78	1,268.26	1,334.48	1,332.33	1,323.14	1,340.80	1,376.82	1,433.66	1,404.42	1,318.80
Observers	181.05	200.07	201.29	203.02	225.32	225.70	224.41	191.56	186.43	324.74
GEFC Share	43%	43%	44%	44%	43%	43%	43%	42%	41%	43%

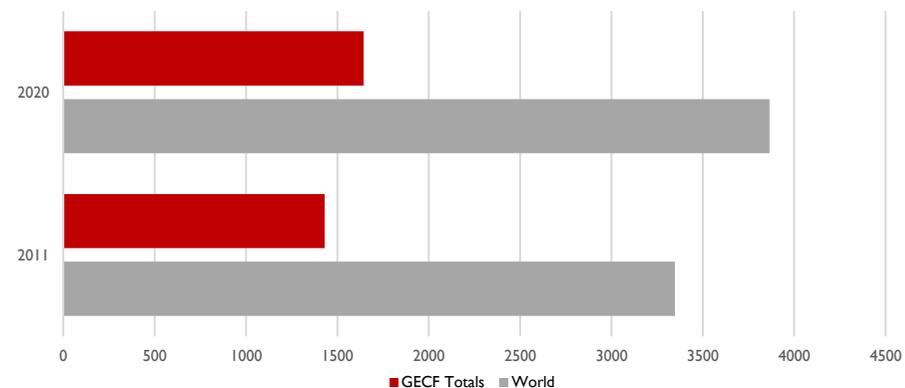
Table 3.2.4. Natural Gas Marketed Production of Current GEFC Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	83.37	86.06	82.43	83.30	84.58	94.95	96.60	97.47	89.98	84.82
Bolivia	15.85	18.11	20.63	21.78	21.60	20.71	20.12	18.70	16.46	15.81
Egypt	61.26	60.80	56.13	48.79	44.26	41.93	50.71	60.84	67.46	60.75
Equatorial Guinea	8.48	8.22	8.41	8.23	7.44	7.88	8.24	7.75	6.74	6.02
Iran	170.78	172.31	171.57	188.02	202.97	211.14	217.80	233.06	241.73	249.63
Libya	6.96	16.07	16.99	16.59	15.15	18.72	20.69	23.22	26.83	20.93
Nigeria	41.32	42.57	38.41	43.84	45.15	41.99	45.79	46.97	47.70	47.94
Qatar	145.27	157.05	164.96	167.43	170.05	166.10	165.37	170.04	176.30	205.72
Russia	628.83	615.61	626.93	607.57	608.95	615.07	636.35	668.23	620.46	577.62
Trinidad and Tobago	39.73	39.01	39.53	38.99	36.94	32.18	32.77	34.91	35.37	30.16
Venezuela	20.77	22.73	21.82	21.88	26.00	28.90	28.29	24.50	20.27	19.40
<b>Observers</b>										
Angola	0.75	0.76	0.93	0.73	0.77	1.71	5.83	6.14	6.80	7.29
Azerbaijan	15.95	16.81	17.45	18.38	18.78	18.28	17.76	19.05	22.84	25.14
Iraq	6.32	6.36	7.09	7.55	7.32	9.92	10.14	10.60	11.16	10.86
Malaysia	61.87	61.83	65.71	66.28	64.19	65.09	67.70	66.53	68.32	63.22
Norway	101.49	114.52	108.76	111.18	120.71	120.33	127.74	126.42	119.05	116.20
Oman	27.14	29.72	30.94	30.45	30.66	31.28	31.25	35.65	35.88	35.67
Peru	11.54	11.99	12.43	13.16	12.69	14.07	12.99	12.74	13.55	12.06
United Arab Emirates	52.98	55.61	55.73	55.45	60.04	61.23	54.09	47.96	55.11	54.29

Graph 3.2.3. GEFC Countries and Rest of the World Natural Gas Marketed Production 2020 | Bcm



Graph 3.2.4. GEFC Countries vs Rest of the World Natural Gas Marketed Production 2011 vs 2020 | Bcm



### 3.3 Natural Gas Exports

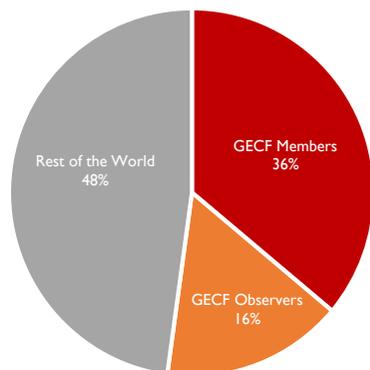
Table 3.3.1. Historical Natural Gas Pipeline Exports of GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	653.40	693.58	715.69	683.68	711.70	755.16	811.36	816.34	820.11	765.99
GECF Totals	389.36	429.26	444.53	406.89	418.24	444.45	469.48	428.96	398.64	399.60
Members	243.41	266.46	282.04	254.40	266.09	287.42	305.92	315.77	291.81	276.52
Observers	145.95	162.79	162.48	152.50	152.15	157.03	163.56	113.19	106.84	123.08
GECF Share	60%	62%	62%	60%	59%	59%	58%	53%	49%	52%

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

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	35.72	37.33	32.23	27.08	27.04	38.44	37.59	37.95	26.31	25.24
Bolivia	12.48	14.61	16.94	17.62	17.34	15.92	15.25	13.84	12.56	11.81
Egypt	1.79	0.68	0.88	0.23	0.24	0.00	0.00	0.41	1.84	0.38
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Iran	9.12	9.18	9.54	9.76	8.60	8.65	12.89	12.24	12.35	11.52
Libya	2.57	6.35	5.55	6.42	7.03	5.60	5.04	5.63	7.11	4.87
Nigeria	0.83	0.40	0.60	0.60	0.60	0.12	0.39	0.72	0.79	0.89
Qatar	19.20	19.22	19.90	20.09	19.75	20.00	21.96	22.36	22.45	22.62
Russia	161.70	178.70	196.40	172.60	185.50	198.70	212.80	222.62	208.40	199.20
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
<b>Observers</b>										
Angola	-	-	-	-	-	-	-	-	-	-
Azerbaijan	6.29	6.09	7.68	7.77	7.32	7.62	8.86	9.19	11.81	13.40
Iraq	-	-	-	-	-	-	-	-	-	-
Malaysia	0.03	1.64	2.30	1.84	1.56	1.70	1.50	1.50	1.47	1.70
Norway	95.54	108.28	102.94	101.47	108.79	108.48	117.88	113.19	106.84	107.98
Oman	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-

Graph 3.3.1. GECF Countries and Rest of the World Natural Gas Pipeline Exports 2020 | Bcm



Graph 3.3.2. GECF Countries vs Rest of the World Natural Gas Pipeline Exports 2011 vs 2020 | Bcm

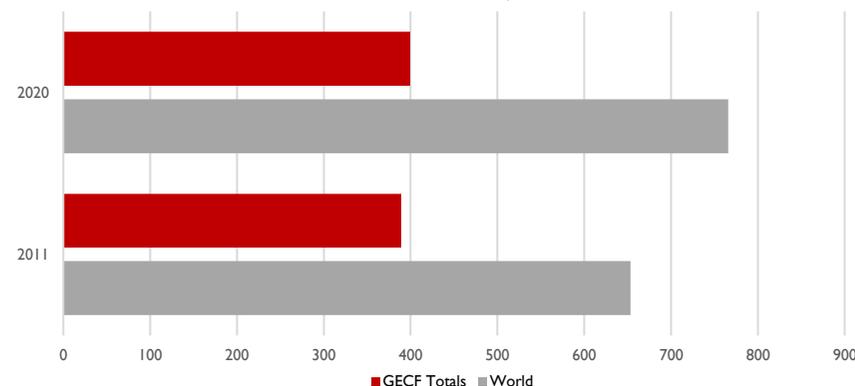


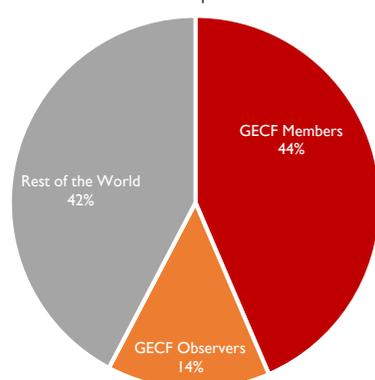
Table 3.3.3. Historical LNG Exports of GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	331.15	323.85	325.18	326.61	330.18	352.80	397.83	406.49	482.57	484.45
GECF Totals	210.26	207.86	211.53	212.78	212.47	212.48	222.30	235.89	260.85	279.69
Members	205.86	203.06	207.43	202.17	191.06	189.29	199.60	205.91	230.00	210.83
Observers	4.40	4.80	4.10	10.61	21.41	23.19	22.70	29.97	30.84	68.85
GECF Share	63%	64%	65%	65%	64%	60%	56%	58%	54%	58%

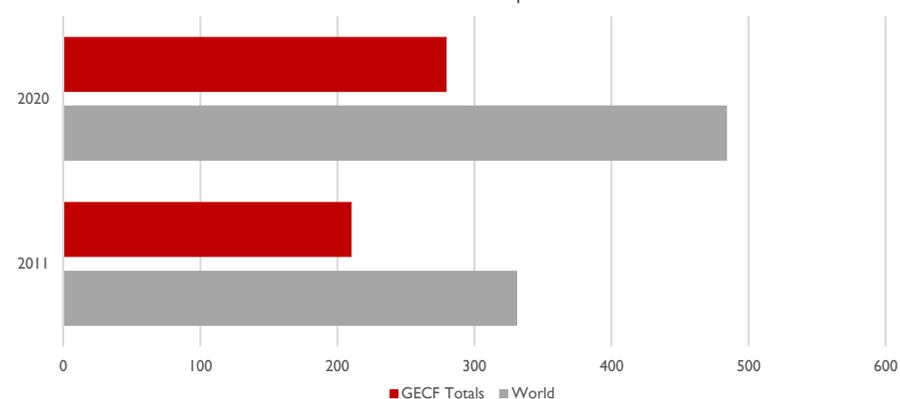
Table 3.3.4. LNG Exports of Current GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	17.13	15.00	15.16	17.11	16.47	15.53	16.41	13.47	16.47	14.22
Bolivia	-	-	-	-	-	-	-	-	-	-
Egypt	11.19	8.26	4.87	0.43	0.00	0.99	1.33	2.45	5.77	2.53
Equatorial Guinea	5.61	5.55	5.77	5.87	5.30	5.31	5.88	5.24	4.45	4.03
Iran	-	-	-	-	-	-	-	-	-	-
Libya	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nigeria	25.94	28.27	24.54	26.78	26.70	25.02	34.33	31.11	32.02	31.04
Qatar	102.60	102.98	103.41	102.32	104.53	105.20	104.23	104.41	106.89	104.84
Russia	14.05	13.18	16.20	12.63	13.18	14.91	15.03	25.48	39.90	40.25
Trinidad and Tobago	18.32	18.96	19.00	18.85	16.90	14.27	14.61	16.67	16.90	13.92
Venezuela	-	-	-	-	-	-	-	-	-	-
<b>Observers</b>										
Angola	0.00	0.00	0.47	0.44	0.00	0.93	4.98	5.25	5.80	6.25
Azerbaijan	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Malaysia	31.28	30.98	33.36	33.19	32.94	32.47	35.26	32.15	34.09	32.51
Norway	4.40	4.80	3.89	4.84	5.63	5.95	5.22	6.75	6.41	4.29
Oman	10.93	10.86	11.28	10.27	10.00	10.64	11.15	13.28	13.44	13.27
Peru	5.64	5.32	5.18	5.24	4.83	5.72	5.50	4.70	5.20	5.08
United Arab Emirates	7.57	7.37	7.19	7.91	7.98	8.06	7.78	7.08	7.61	7.46

Graph 3.3.3. GECF Countries and Rest of the World Natural Gas LNG Exports 2020 | Bcm



Graph 3.3.4. GECF Countries vs Rest of the World Natural Gas LNG Exports 2011 vs 2020 | Bcm



### 3.4 Natural Gas Domestic Consumption

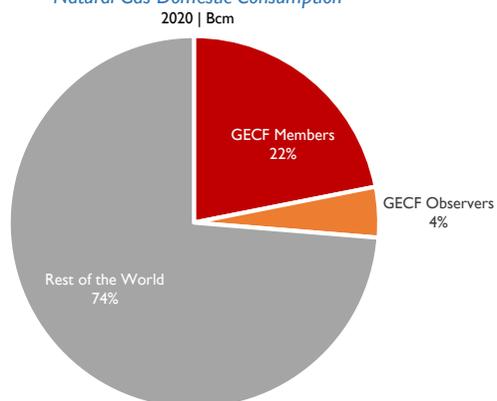
Table 3.4.1. Historical Natural Gas Domestic Consumption of GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	3,308.74	3,378.32	3,423.19	3,455.52	3,521.48	3,571.54	3,690.72	3,893.90	3,978.39	3,864.52
GECF Totals	863.95	886.14	963.38	981.68	995.87	1,007.05	1,044.08	1,049.68	1,066.91	1,015.46
Members	816.75	834.63	911.46	927.34	918.63	925.74	956.62	998.79	1,011.92	846.21
Observers	47.20	51.52	51.92	54.34	77.24	81.31	87.46	50.89	54.99	169.25
GECF Share	26%	26%	28%	28%	28%	28%	28%	27%	27%	26%

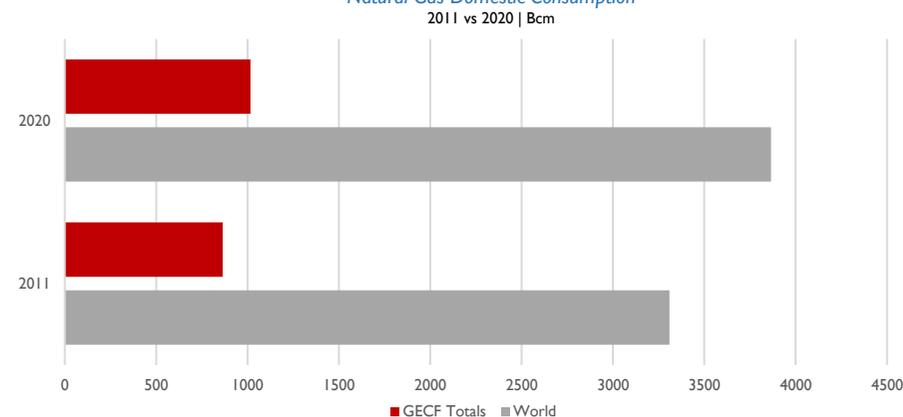
Table 3.4.2. Natural Gas Domestic Consumption of Current GECF Countries (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Members</b>										
Algeria	28.80	32.21	32.53	37.21	40.30	40.45	41.82	45.14	46.40	45.03
Bolivia	3.28	3.39	3.61	4.14	4.22	4.73	4.79	4.87	4.52	3.60
Egypt	49.62	52.57	51.42	48.02	47.73	51.28	58.13	61.45	60.71	60.28
Equatorial Guinea	1.39	1.46	1.47	1.44	1.29	1.59	1.58	1.52	1.49	1.88
Iran	170.79	172.33	171.57	188.02	202.97	211.15	217.76	227.82	231.22	233.00
Libya	4.30	9.71	11.43	10.17	8.69	8.90	8.16	8.32	8.40	7.70
Nigeria	6.16	7.33	7.70	7.73	11.11	8.88	11.07	12.17	12.10	13.19
Qatar	19.60	23.40	38.19	40.52	43.90	41.70	38.02	40.95	41.53	40.49
Russia	476.00	471.00	466.00	465.00	445.00	444.00	463.00	489.00	501.00	412.97
Trinidad and Tobago	17.40	17.07	16.98	16.67	16.64	15.06	14.74	15.09	15.45	13.27
Venezuela	21.87	23.29	22.44	22.01	24.96	26.05	25.57	21.22	17.55	14.83
<b>Observers</b>										
Angola	0.75	0.76	0.82	0.64	0.77	0.78	0.79	0.71	0.82	0.88
Azerbaijan	8.99	9.34	9.43	10.05	11.12	10.85	10.50	10.79	11.79	12.53
Iraq	7.22	6.93	6.79	6.81	6.95	8.05	10.69	13.65	17.41	18.08
Malaysia	31.14	31.55	33.80	35.72	32.74	33.04	33.57	35.26	36.84	31.59
Norway	4.01	3.89	3.88	4.16	4.53	4.51	4.73	4.55	4.69	4.50
Oman	17.54	20.88	21.23	20.52	22.24	22.12	22.57	24.25	23.76	24.15
Peru	5.71	6.61	7.02	7.66	7.67	8.94	7.49	7.73	8.30	7.06
United Arab Emirates	63.20	65.60	66.90	65.90	71.83	71.95	71.98	71.24	71.57	70.46

Graph 3.4.1. GECF Countries and Rest of the World Natural Gas Domestic Consumption



Graph 3.4.2. GECF Countries vs Rest of the World Natural Gas Domestic Consumption



### 3.5 Liquefaction Plants

Table 3.5.1. Liquefaction Plants of GEFC Countries

Country	Plant	Liquefaction (No. of Trains)	Total Capacity (MPTA)	Status	Start Year	Owner(s)	Operator(s)
<b>Members</b>							
<b>Algeria</b>	GL1Z	6	10.1	Operational	1978	Sonatrach	Sonatrach
	GL2Z	6	10.5	Operational	1981	Sonatrach	Sonatrach
	GL1K	1 Mega	6.0	Operational	2013	Sonatrach	Sonatrach
	GL3Z	1 Mega	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 LNG	2	6.7	Cancelled	-	-	-
	Iran FLNG	1	0.7	Planned	NA	NIOC	-
<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	2024	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
	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	2024/2025	Qatar Petroleum	Construction Phase
North Field Expansion 2	2	16	Project	2027	Qatar Petroleum	Project Phase	
<b>Russia</b>	Sakhalin II	2	9.6	Operational	2009	Sakhalin Energy	Sakhalin Energy
	Yamal LNG	3	16.5	Operational	2017	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	Under Construction	2022	Gazprom	Gazprom
	Arctic LNG	3	19.8	Under Construction	2023/2025	Novatek	Novatek
	Baltic LNG	2	13.0	Under Construction	2023/2024	Gazprom	Gazprom
	Sakhalin II	1	5.4	Planned	2024	Sakhalin Energy	Sakhalin Energy
<b>Trinidad and Tobago</b>	Obskii LNG	2	5.0	Cancelled	-	-	-
	Atlantic LNG	4	14.8	Operational	1999/2002/2003/2005	Atlantic LNG	Atlantic LNG
<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>Norway</b>	Snohvit LNG	1	4.3	Offline	2007	Snohvit LNG Consortium	Snohvit LNG Consortium
<b>Oman</b>	Qalhat	3	10.8	Operational	2000	Oman LNG	Oman LNG
<b>Peru</b>	Peru LNG Plant	1	4.5	Operational	2010	Peru LNG Consortium	Hunt Oil Company
	United Arab Emirates	Das Island	3	5.6	Operational	1977/1977/1994	ADNOC, Mitsui, BP, Total

## 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								
Enrico Mattei (TransMediterranean)	<b>Algeria</b>	Italy	Tunisia	Sonatrach, Sotugat, ENI	Sonatrach, TMPC, TTPC	Operational	34.0	Export	1982	2,475	47/20/42/48
Pedro Duran Farell	<b>Algeria</b>	Spain-Portugal	Morocco	Sonatrach, Enagas, Naturgy, Galp	Sonatrach, Metragaz, Enagas, Naturgy	Operational	12.0	Export	1996	1,620	47/28/32/22
Medgaz	<b>Algeria</b>	Spain	Med Sea	Sonatrach, Naturgy	Medgaz	Operational	8.0-10.5	Export	2011	210	48/24
Trans-Saharan Gas	<b>Algeria</b>	<b>Nigeria</b>	Niger	Sonatrach, NNPC	NA	Proposed	20.0 – 30.0	Export	NA	4,128	48/56
GASBOL	<b>Bolivia</b>	Brazil	-	Gas TransBoliviano	Gas TransBoliviano	Operational	11.5	Export	1999	557	32
GIIA (Juana Azurduy)	<b>Bolivia</b>	Argentina	-	YPFB Transporte	YPFB Transporte	Operational	10.2	Export	2011	13	32
GOB	<b>Bolivia</b>	Brazil	-	GasOriente Boliviano	GasOriente Boliviano	Operational	1.5	Export	2002	362	18
Arab Gas Pipeline	<b>Egypt</b>	Jordan, Syria, Lebanon	-	EGAS, ENPPI, GASCOPEPROJET SPC	Egyptian FAJR	Operational	10.0	Export	2003	1,200	36
EMG	Israel	<b>Egypt</b>	-	EMG	Israel Natural Gas Lines (INGL)	Operational	7.0-9.0	Import	2020	90	26
Tabriz-Ankara	<b>Iran</b>	Turkey	-	NIOC, Botas	NIOC, Botas	Operational	14.0	Export	2002	3,250	40
Jolfa-Nakhchivan	<b>Iran</b>	Azerbaijan	-	NIGC, SOCAR	NIGC, SOCAR	Operational	10.0	Swap	2005	627	40
Tabriz-Sardanian	<b>Iran</b>	Armenia	-	NIOC, Armenia Gazprom	NIOC, Armenia Gazprom	Operational	2.3	Export	2006	140	30
Asaluye-Baghdad	<b>Iran</b>	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	12.8	Export	2017	230	NA
Dauletabad-Khangiran	Turkmenistan	<b>Iran</b>	-	Turkmengaz	Turkmengaz	Operational	12.0	Import	2007	182	48
Asaluye-Basrah	<b>Iran</b>	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	NA	Export	NA	NA	NA
Asaluye-Nawabshah	<b>Iran</b>	Pakistan	-	NIOC, SNGPL, SSGC, Gazprom JSC	NIOC, SNGPL, SSGC, Gazprom JSC	Proposed	40.0	Export	NA	2,775	56
Asaluye-Sohar	<b>Iran</b>	Oman	-	NIOC, OGC	NIOC, OGC	Planned	9.9	Export	2020	NA	NA
Green Stream	<b>Libya</b>	Sicily	-	Green Stream	Green Stream	Operational	11.0	Export	2004	520	32
West African Gas Pipeline	<b>Nigeria</b>	Ghana	Benin-Togo	WAGP	Chevron	Operational	8.3	Export	2006	678	20
Dolphin	<b>Qatar</b>	<b>United Arab Emirates, Oman</b>	-	Dolphin Energy	Dolphin Energy	Operational	33.1	Export	2007	364	48
Urengoy-Pomary-Uzhgorod	<b>Russia</b>	Europe	Ukraine	Gazprom	Gazprom	Operational	32	Export	1983	4,451	56
Blue Stream	<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
Yamal Europe	<b>Russia</b>	Europe (Poland Germany)	Belarus	Gazprom, EuRoPol Gaz, WINGAS	Gazprom	Operational	32.9	Export	2006	2,000	56
Nord Stream	<b>Russia</b>	Germany	NA	Nord Stream AG JV	Nord Stream AG JV	Operational	55.0	Export	2011	1,224	48
Minsk-Vilnius-Kaunas-Kaliningrad	<b>Russia</b>	<b>Russia</b>	Belarus, Lithuania	Gazprom	Gazprom	Operational	2.5	Export	2011	155	20
Power of Siberia	<b>Russia</b>	China	-	Gazprom	Gazprom	Operational	38.0	Export	2019	3,000	56
TurkStream	<b>Russia</b>	Turkey	-	Gazprom	Gazprom	Operational	31.5	Export	2020	3000	32
Nord Stream 2	<b>Russia</b>	Germany	-	Nord Stream 2 AG	Nord Stream 2 AG	Under Certification Process	55.0	Export	2021 2022	1,200	48
Antonio Ricaurte (Trans Caribbean)	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								
South Gas Corridor	<b>Azerbaijan</b>	Georgia, Turkey, Greece, Italy	-	BP, TPAO, SOCAR, Petronas, Lukoil, Naftiran, Intertrade	BP	Operational	16.0	Export	2006	692	42
Mozdok–Makhachkala–Kazi Magomed	Russia	<b>Azerbaijan</b>	-	SOCAR, GAZPROM	SOCAR, GAZPROM	Operational	13.0	-	2010	680	48
Trans-Caspian	Turkmenistan	<b>Azerbaijan</b>	-	NA	NA	Proposed	30.0	Export	NA	300	NA
Segamat	<b>Malaysia</b>	Singapore	-	Petronas Gas	Petronas Gas	Operational	5.7	Export	1991	230	36
Yetagun	<b>Malaysia</b>	Thailand	-	Petronas Carigali	Petronas Carigali	Operational	5.2	Export	2007	270	24
West Natuna Transportation System	Indonesia	<b>Malaysia</b>	-	PSCs	PSCs	Operational	2.6	Import	2001	96	18
Norpipe	<b>Norway</b>	Germany	-	Gassco AS	Gassco AS	Operational	11.7	Export	1977	440	36
Vesterled	<b>Norway</b>	UK	-	Gassco AS	Gassco AS	Operational	14.2	Export	1978	360	32
Zeepipe I	<b>Norway</b>	Belgium	-	Gassco AS	Gassco AS	Operational	15.3	Export	1993	808	40
Europipe I	<b>Norway</b>	Germany	-	Gassco AS	Gassco AS	Operational	16.8	Export	1995	620	40
Franpipe	<b>Norway</b>	France	-	Gassco AS	Gassco AS	Operational	20.1	Export	1998	840	42
Europipe II	<b>Norway</b>	Germany	-	Gassco AS	Gassco AS	Operational	26.0	Export	1999	660	42
Langeled	<b>Norway</b>	UK	-	Gassco AS	Gassco AS	Operational	26.3	Export	2006	536	44
Baltic Pipeline	<b>Norway</b>	Denmark, Poland	-	-	-	Under Construction	10.0	Export	2022	275	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>	Abane Ramdane	Sonatrach Group	1981	126.13
	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	171.8
	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	

(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)
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
	Mesaimmer	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 Rekeyyat	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	TBA	174.00
Hull no.2503	Nakilat/Maran Gas	TBA	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

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 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
	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	
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
	Mrawah	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

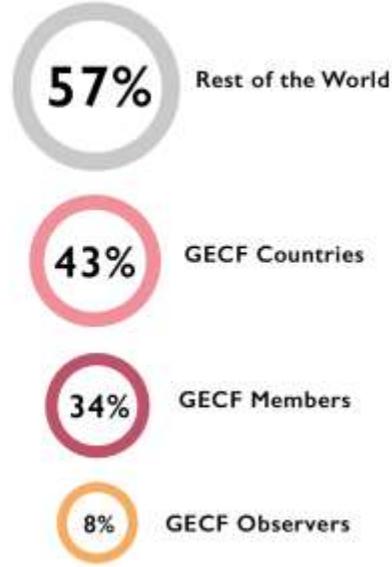
Proven Natural Gas Reserves



Natural Gas Gross Production



Natural Gas Marketed Production



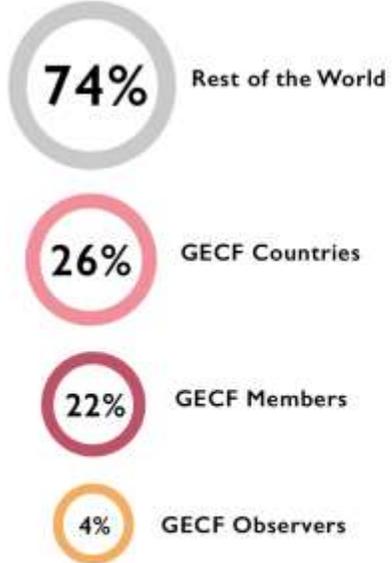
Natural Gas Pipeline Exports



Natural Gas LNG Exports



Natural Gas Domestic Consumption



GECF Countries' Plants and Transport





#### 2020 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. Bolivarian Republic of Venezuela

#### 2020 GECF Observers

- 12. Republic of Angola
- 13. Republic of Azerbaijan
- 14. Republic of Iraq
- 15. Malaysia
- 16. Kingdom of Norway
- 17. Sultanate of Oman
- 18. Republic of Peru
- 19. United Arab Emirates





**Section 4**

**GECF Member Countries**





People's Democratic Republic of

# ALGERIA



Population:  
44 227 000



Capital:  
Algiers



Continent:  
Africa



Currency:  
Algerian Dinar



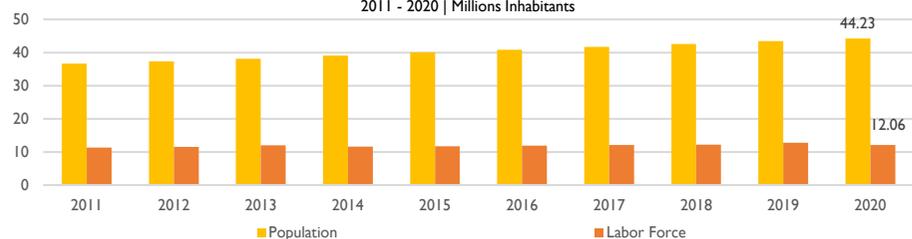
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### 4.1.1 Macroeconomics

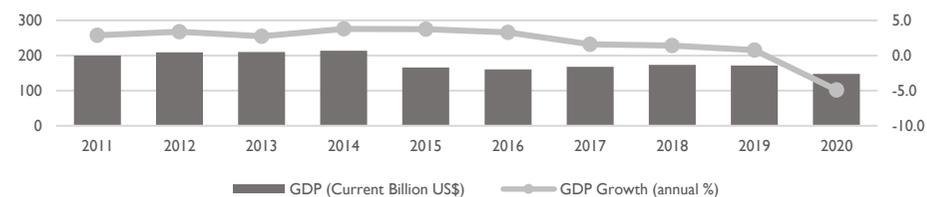
Table 4.1.1.1 Algeria Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	36,661,444	37,383,887	38,140,132	39,100,000	40,072,802	40,841,404	41,699,198	42,628,000	43,424,118	44,227,000
<b>Labor Force</b> (Inhabitants)	11,310,068	11,541,577	12,002,108	11,586,092	11,752,300	11,921,392	12,108,635	12,173,459	12,730,000	12,055,000
<b>GDP</b> (Current Billion US\$)	200.02	209.06	209.76	213.81	165.98	160.13	167.56	173.76	171.15	147.64
<b>GDP Growth</b> (annual %)	2.89	3.37	2.77	3.79	3.76	3.30	1.60	1.40	0.80	-4.90
<b>GDP per capita</b> (Current US\$)	5,455.84	5,592.22	5,499.59	5,471.00	4,154.00	3,894.00	4,003.00	4,087.00	3,941.34	3,338.23
<b>Exports of Goods and Services</b> (Current Billion US\$)	77.58	77.12	69.66	64.66	38.58	33.40	37.93	44.52	35.82	23.80
<b>Exports of Goods and Services</b> (% of GDP)	38.79	36.89	33.21	30.24	23.24	20.86	22.64	25.62	20.90	16.10
<b>Imports of Goods and Services</b> (Current Billion US\$)	57.38	59.61	63.77	68.31	60.81	56.09	55.60	60.02	44.63	34.39
<b>Imports of Goods and Services</b> (% of GDP)	28.69	28.51	30.40	31.95	36.64	35.03	33.18	34.54	26.10	23.30
<b>Inflation consumer prices</b> (annual %)	4.52	8.89	3.25	2.90	4.80	6.40	5.60	4.30	1.95	2.42
<b>Energy use</b> (kg of oil equivalent per capita)	1,140.64	1,229.55	1,247.50	1,333.90	1,368.70	1,347.70	1,339.90	1,430.90	1,433.30	1,333.96
<b>Natural Gas use</b> (Scm per capita)	785.48	861.57	852.80	951.59	1,005.62	990.42	1,002.78	1,058.86	1,068.44	1,018.16

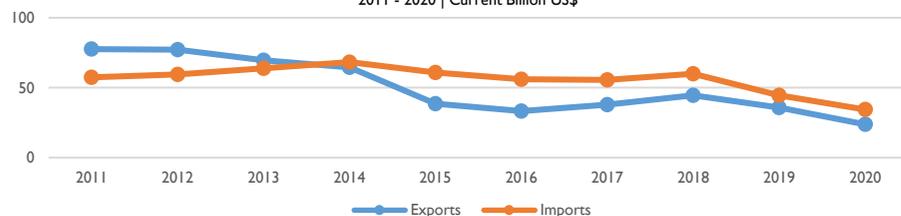
Graph 4.1.1.1. Algeria: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



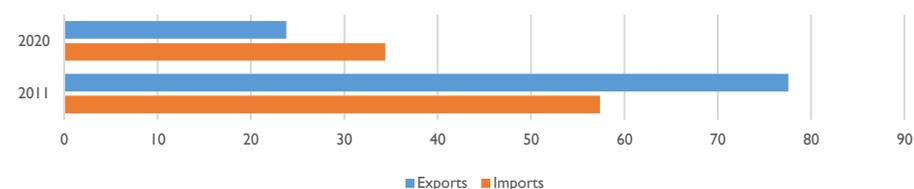
Graph 4.1.1.2. Algeria: GDP and GDP Growth  
2011 - 2020 | Current Billion US\$ and Annual %



Graph 4.1.1.3. Algeria: Exports and Imports (Goods and Services)  
2011 - 2020 | Current Billion US\$



Graph 4.1.1.4. Algeria: Exports and Imports (Goods and Services)  
2011 vs 2020 | Current Billion US\$



Graph 4.1.1.5. Algeria: Inflation (Consumer Prices)  
2011 - 2020 | Annual %



Graph 4.1.1.6. Algeria: Natural Gas Use  
2011 - 2020 | Scm per Capita



## 4.1.2 Reserves and Production

Table 4.1.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<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)

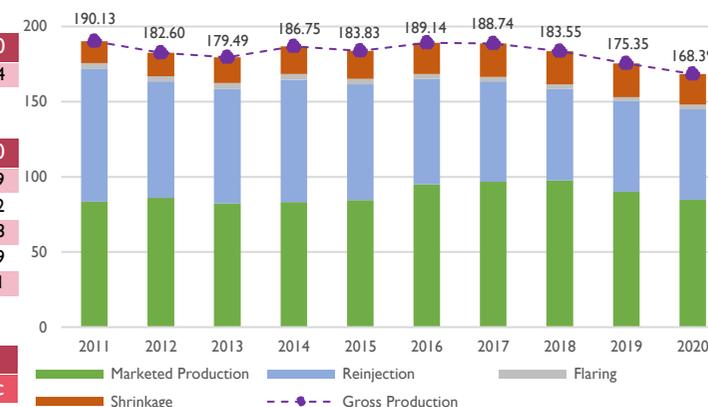
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	190.13	182.60	179.49	186.75	183.83	189.14	188.74	183.55	175.35	168.39
<b>Marketed Production</b>	83.37	86.06	82.43	83.30	84.58	94.95	96.60	97.47	89.98	84.82
<b>Reinjection</b>	88.75	77.40	76.20	81.21	77.05	70.12	66.94	61.10	60.33	59.98
<b>Flaring</b>	3.60	3.50	3.70	3.95	3.51	3.26	3.00	2.91	2.74	3.19
<b>Shrinkage</b>	14.41	15.65	17.16	18.30	18.68	20.81	22.21	22.07	22.30	20.41

Table 4.1.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	13622.00	14008.00	14725.00	13924.00	13702.00	13385.00	13842.00	13706.00	13749.00	14392.00	14121.00	15218.00
<b>Marketed Production</b>	8714.00	7032.00	6576.00	5676.00	5511.00	5698.00	6880.00	6943.00	6411.00	7664.00	8138.00	9579.00

Graph 4.1.2.1. Algeria: Natural Gas Annual Production

2011 - 2020 | Bcm



Graph 4.1.3.1. Algeria: Natural Gas Annual Domestic Consumption

2011 - 2020 | Bcm



## 4.1.3 Domestic Consumption and Trade

Table 4.1.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Residential</b>	5.02	5.96	6.62	7.07	7.90	8.13	8.68	10.62	10.97	11.04
<b>Industrial</b>	3.55	3.52	3.68	3.83	4.04	4.21	4.63	5.10	5.74	5.86
<b>Power Generation</b>	13.04	14.11	14.45	15.75	17.72	17.45	18.53	18.99	20.08	18.97
<b>Transportation</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
<b>Petrochemical (feedstock)</b>	1.48	2.06	1.82	2.83	3.66	4.00	3.18	4.75	3.94	3.60
<b>Refineries</b>	0.49	0.61	0.73	0.70	0.72	0.77	0.68	0.64	0.67	0.65
<b>Others</b>	5.22	5.94	5.22	7.02	6.25	5.88	6.10	5.03	4.98	4.89
<b>Totals</b>	28.80	32.21	32.53	37.21	40.30	40.45	41.82	45.14	46.40	45.03

Table 4.1.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	35.72	37.33	32.23	27.08	27.04	38.44	37.59	37.95	26.31	25.24
<b>LNG</b>										
Bcm*	17.13	15.00	15.16	17.11	16.47	15.53	16.41	13.47	16.47	14.22
MMT	12.60	11.03	11.15	12.58	12.11	11.42	12.07	9.90	12.11	10.46
<b>Totals (Bcm)</b>	52.85	52.33	47.39	44.19	43.51	53.97	54.00	51.42	42.78	39.46

\* Gas equivalent

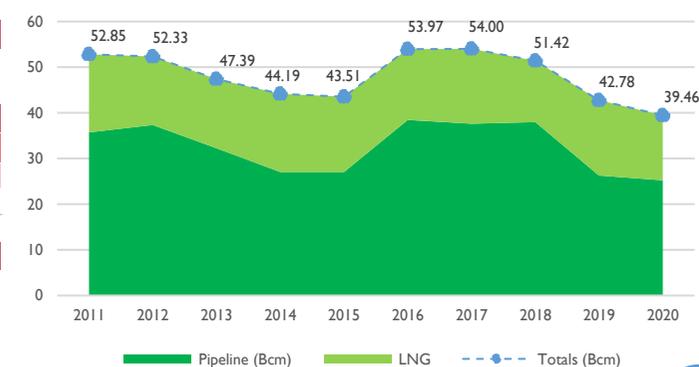
Table 4.1.3.3 Detailed 2020 Trade: Natural Gas Exports

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	2382.12	1656.08	987.83	1058.06	1228.18	1379.46	2089.41	2270.42	2350.47	3158.37	3134.62	3541.98
<b>LNG</b>												
MMcm*	1147.10	1144.69	1241.10	1201.05	1446.30	1376.04	1251.87	968.94	898.68	1257.30	1258.40	1031.54
1000MT	770.74	769.12	833.90	806.99	971.76	924.56	841.13	651.03	603.82	844.78	845.51	693.09
<b>Totals (MMcm)</b>	3529.22	2800.77	2228.94	2259.12	2674.48	2755.50	3341.28	3239.36	3249.15	4415.67	4393.02	4573.51

\* Gas equivalent

Graph 4.1.3.2. Algeria: Natural Gas Annual Exports

2011 - 2020 | Bcm



## 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								
Enrico Mattei (TransMediterranean)	Algeria	Italy	Tunisia	Sonatrach, Sotugat, ENI	Sonatrach, TTPC, TTPC	Operational	34.0	Export	1982	2,475	47/20/42/48
Pedro Duran Farell	Algeria	Spain-Portugal	Morocco	Sonatrach, Enagas, Naturgy, Galp	Sonatrach, Metragaz, Enagas, Naturgy	Operational	12.0	Export	1996	1,620	47/28/32/22
Medgaz	Algeria	Spain	Med Sea	Sonatrach, Naturgy	Medgaz	Operational	8.0-10.5	Export	2011	210	48/24
Trans-Saharan Gas	Algeria	Nigeria	Niger	Sonatrach, NNPC	NA	Proposed	20.0 – 30.0	Export	NA	4,128	48/56

Table 4.1.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Abane Ramdane	Sonatrach Group	1981	126.13
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>904.18</b>

Table 4.1.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
GLIZ	6	10.1	Operational	1978	Sonatrach	Sonatrach
GLZZ	6	10.5	Operational	1981	Sonatrach	Sonatrach
GLIK	1 Mega	6.0	Operational	2013	Sonatrach	Sonatrach
GL3Z	1 Mega	5.8	Operational	2014	Sonatrach	Sonatrach



Plurinational State of  
**BOLIVIA**



Population:  
11 677 406



Capital:  
Sucre



Continent:  
South America



Currency:  
Bolivian Boliviano



Time Zone:  
Bolivia  
GMT-4

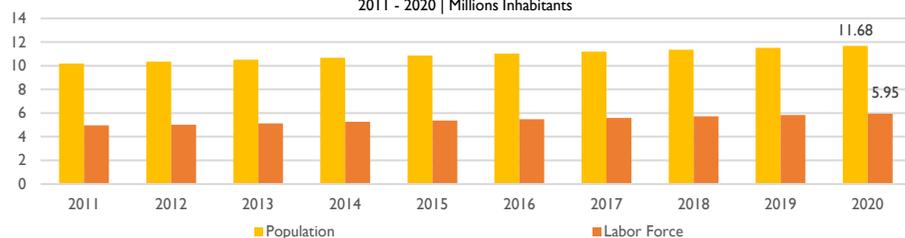
## 4.2.1 Macroeconomics

Table 4.2.1.1 Bolivia Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	10,192,885	10,356,978	10,521,247	10,685,994	10,851,103	11,016,438	11,181,861	11,347,241	11,512,468	11,677,406
<b>Labor Force</b> (Inhabitants)	4,977,233	5,030,046	5,140,002	5,252,954	5,367,472	5,482,890	5,599,033	5,715,242	5,831,367	5,947,030
<b>GDP</b> (Current Billion US\$)	24.14	27.28	30.88	33.24	33.24	34.19	37.78	40.58	41.19	36.84
<b>GDP Growth</b> (annual %)	5.20	5.12	6.80	5.46	4.86	4.26	4.20	4.22	2.22	-8.83
<b>GDP per capita</b> (Current US\$)	2,368.37	2,634.16	2,935.28	3,110.30	3,063.35	3,103.41	3,378.87	3,576.31	3,578.15	3,154.75
<b>Exports of Goods and Services</b> (Current Billion US\$)	10.64	12.87	13.62	14.39	10.26	8.37	9.41	10.55	10.28	7.50
<b>Exports of Goods and Services</b> (% of GDP)	44.09	47.17	44.09	43.29	30.87	24.49	24.90	25.99	24.97	20.37
<b>Imports of Goods and Services</b> (Current Billion US\$)	9.27	10.31	11.47	13.95	12.32	10.91	12.01	12.63	12.95	9.32
<b>Imports of Goods and Services</b> (% of GDP)	38.39	37.78	37.14	41.97	37.06	31.91	31.80	31.12	31.43	25.30
<b>Inflation consumer prices</b> (annual %)	9.88	4.52	5.74	5.76	4.06	3.62	2.82	2.27	1.84	0.94
<b>Energy use</b> (kg of oil equivalent per capita)	629.06	663.11	668.44	714.37	731.92	747.72	736.06	718.88	671.97	586.62
<b>Natural Gas use</b> (Scm per capita)	321.44	327.10	342.96	387.39	388.78	429.33	428.32	428.97	392.80	307.92

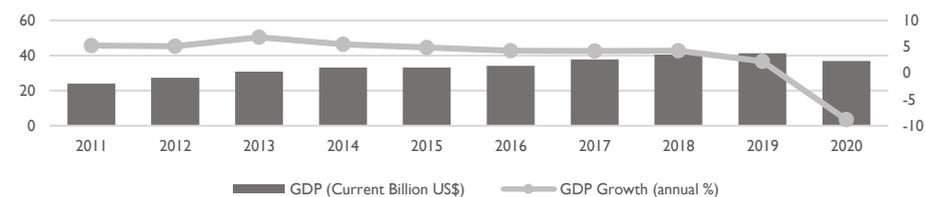
Graph 4.2.1.1. Bolivia: Population and Labor Force

2011 - 2020 | Millions Inhabitants



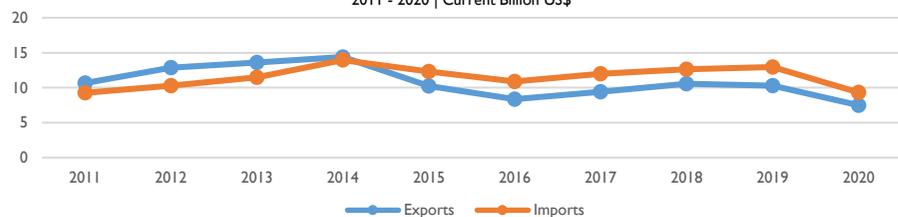
Graph 4.2.1.2. Bolivia: GDP and GDP Growth

2011 - 2020 | Current Billion US\$ and Annual %



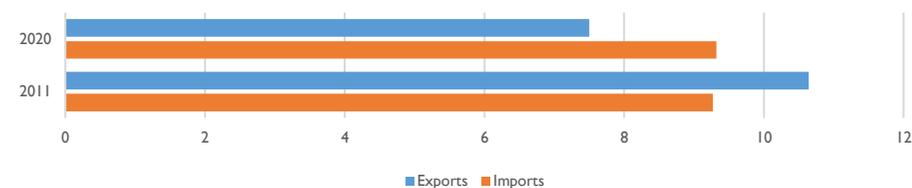
Graph 4.2.1.3. Bolivia: Exports and Imports (Goods and Services)

2011 - 2020 | Current Billion US\$



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

2011 vs 2020 | Current Billion US\$



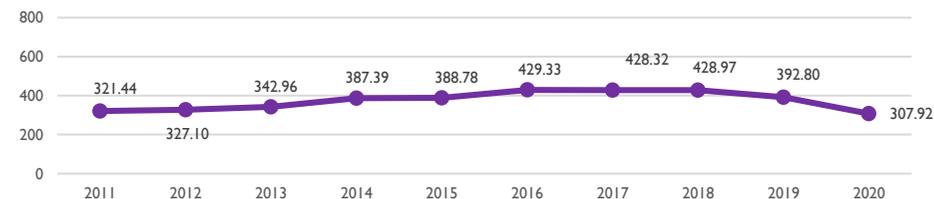
Graph 4.2.1.5. Bolivia: Inflation (Consumer Prices)

2011 - 2020 | Annual %



Graph 4.2.1.6. Bolivia: Natural Gas Use

2011 - 2020 | Scm per Capita



## 4.2.2 Reserves and Production

Table 4.2.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	250	231	296	296	296	296	255	253	253	253

Table 4.2.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	16.45	18.71	21.27	22.39	22.17	21.33	20.70	19.34	17.05	16.38
<b>Marketed Production</b>	15.85	18.11	20.63	21.78	21.60	20.71	20.12	18.70	16.46	15.81
<b>Flaring</b>	0.12	0.07	0.10	0.07	0.07	0.09	0.07	0.08	0.08	0.07
<b>Shrinkage</b>	0.18	0.20	0.21	0.20	0.19	0.17	0.17	0.15	0.13	0.13
<b>Other losses</b>	0.29	0.33	0.34	0.33	0.32	0.36	0.34	0.41	0.37	0.38

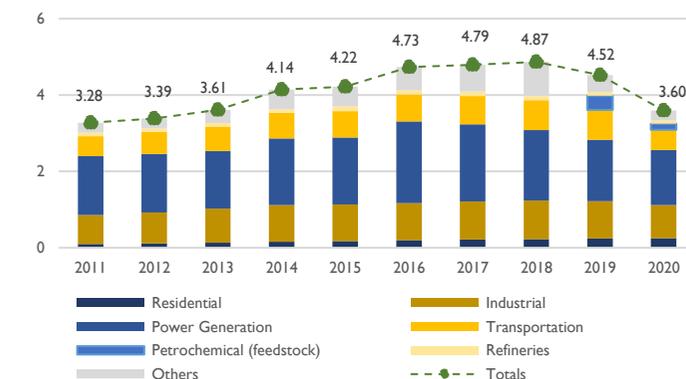
Table 4.2.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	1644.40	1262.13	1267.68	846.42	1104.55	1272.09	1436.53	1483.72	1411.69	1557.96	1553.08	1543.86
<b>Marketed Production</b>	1590.11	1214.37	1210.64	811.19	1062.73	1230.79	1392.65	1435.62	1363.64	1506.95	1502.82	1489.15

Graph 4.2.2.1. Bolivia: Natural Gas Annual Production 2011 - 2020 | Bcm



Graph 4.2.3.1. Bolivia: Natural Gas Annual Domestic Consumption 2011 - 2020 | Bcm



## 4.2.3 Domestic Consumption and Trade

Table 4.2.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Residential</b>	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.22	0.24	0.25
<b>Industrial</b>	0.75	0.81	0.89	0.96	0.96	0.97	1.00	1.01	0.98	0.87
<b>Power Generation</b>	1.54	1.53	1.50	1.74	1.75	2.14	2.02	1.85	1.60	1.44
<b>Transportation</b>	0.52	0.57	0.64	0.67	0.69	0.70	0.74	0.78	0.79	0.52
<b>Petrochemical (feedstock)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.16
<b>Refineries</b>	0.10	0.09	0.09	0.10	0.13	0.12	0.12	0.11	0.09	0.08
<b>Others</b>	0.26	0.26	0.34	0.51	0.52	0.60	0.70	0.89	0.45	0.26
<b>Totals</b>	3.28	3.39	3.61	4.14	4.22	4.73	4.79	4.87	4.52	3.60

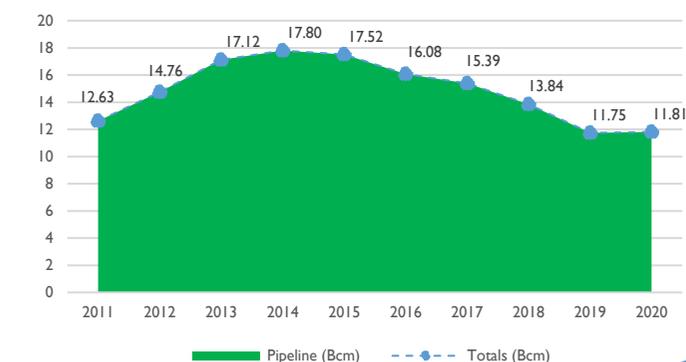
Table 4.2.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	12.63	14.76	17.12	17.80	17.52	16.08	15.39	13.84	11.75	11.81
<b>Totals (Bcm)</b>	12.63	14.76	17.12	17.80	17.52	16.08	15.39	13.84	11.75	11.81

Table 4.2.3.3 Detailed 2020 Trade: Natural Gas Exports (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	1193.05	870.41	894.32	631.79	840.55	942.11	1032.81	1042.02	1026.60	1129.02	1097.15	1109.82
<b>Totals (MMcm)</b>	1193.05	870.41	894.32	631.79	840.55	942.11	1032.81	1042.02	1026.60	1129.02	1097.15	1109.82

Graph 4.2.3.2. Bolivia: Natural Gas Annual Exports 2011 - 2020 | 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 (km)	Diameter (Inches)
	From	To	Via								
GASBOL	Bolivia	Brazil	-	Gas TransBoliviano	Gas TransBoliviano	Operational	11.5	Export	1999	557	32
GIIA (Juana Azurduy)	Bolivia	Argentina	-	YPFB Transporte	YPFB Transporte	Operational	10.2	Export	2011	13	32
GOB	Bolivia	Brazil	-	GasOriente Boliviano	GasOriente Boliviano	Operational	1.5	Export	2002	362	18

Table 4.2.4.2 Domestic Gas Plants

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



Arab Republic of  
**EGYPT**



Population:  
102 334 403



Capital:  
Cairo



Continent:  
Africa



Currency:  
Egyptian Pound



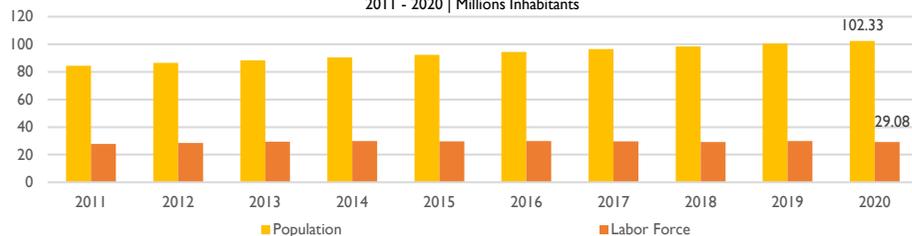
Time Zone:  
Eastern European  
GMT+2

### 4.3.1 Macroeconomics

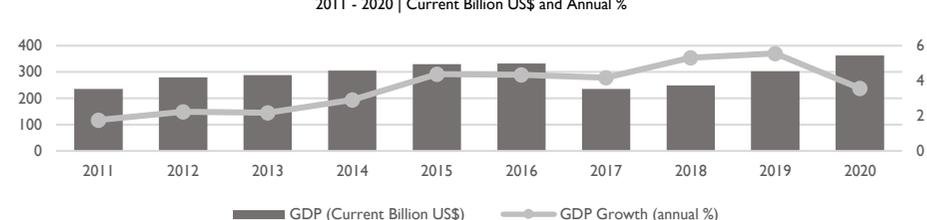
Table 4.3.1.1 Egypt Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	84,529,251	86,422,240	88,404,652	90,424,668	92,442,549	94,447,071	96,442,590	98,423,602	100,388,076	102,334,403
<b>Labor Force</b> (Inhabitants)	27,825,941	28,583,735	29,411,208	29,972,669	29,541,108	29,893,554	29,628,637	29,275,347	29,776,956	29,077,255
<b>GDP</b> (Current Billion US\$)	235.99	279.12	288.43	305.60	329.37	332.44	235.73	249.71	303.08	363.07
<b>GDP Growth</b> (annual %)	1.76	2.23	2.19	2.92	4.37	4.35	4.18	5.31	5.56	3.57
<b>GDP per capita</b> (Current US\$)	2,791.81	3,229.69	3,262.66	3,379.56	3,562.93	3,519.87	2,444.29	2,537.13	3,019.09	3,547.87
<b>Exports of Goods and Services</b> (Current Billion US\$)	48.54	45.77	49.09	43.53	43.42	34.39	37.29	47.23	53.04	47.87
<b>Exports of Goods and Services</b> (% of GDP)	20.57	16.40	17.02	14.24	13.18	10.35	15.82	18.91	17.50	13.18
<b>Imports of Goods and Services</b> (Current Billion US\$)	58.26	67.87	67.36	69.30	71.35	66.16	69.09	73.33	78.01	75.43
<b>Imports of Goods and Services</b> (% of GDP)	24.69	24.31	23.36	22.68	21.66	19.90	29.31	29.37	25.74	20.77
<b>Inflation consumer prices</b> (annual %)	10.06	7.11	9.47	10.07	10.37	13.81	29.51	14.40	9.15	5.04
<b>Energy use</b> (kg of oil equivalent per capita)	900.66	905.59	848.63	827.50	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	534.13	574.16	594.88	568.65	519.46	506.10	531.82	590.88	610.55	592.55

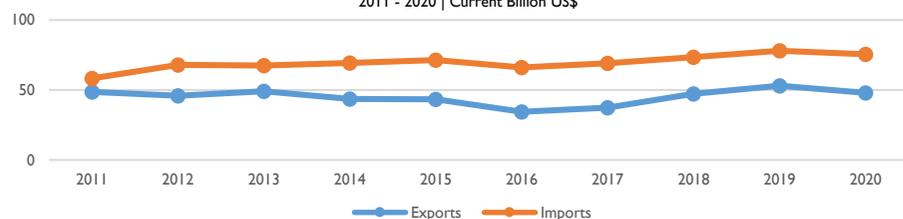
Graph 4.3.1.1. Egypt: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



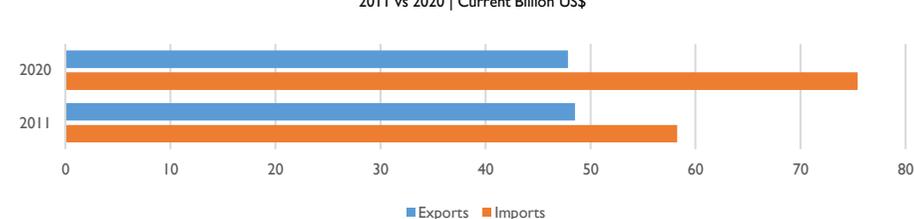
Graph 4.3.1.2. Egypt: GDP and GDP Growth  
2011 - 2020 | Current Billion US\$ and Annual %



Graph 4.3.1.3. Egypt: Exports and Imports (Goods and Services)  
2011 - 2020 | Current Billion US\$



Graph 4.3.1.4. Egypt: Exports and Imports (Goods and Services)  
2011 vs 2020 | Current Billion US\$



Graph 4.3.1.5. Egypt: Inflation (Consumer Prices)  
2011 - 2020 | Annual %



Graph 4.3.1.6. Egypt: Natural Gas Use  
2011 - 2020 | Scm per Capita



### 4.3.2 Reserves and Production

Table 4.3.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	2,119	1,957	1,777	2,186	2,086	2,221	2,221	2,221	2,221	2,209

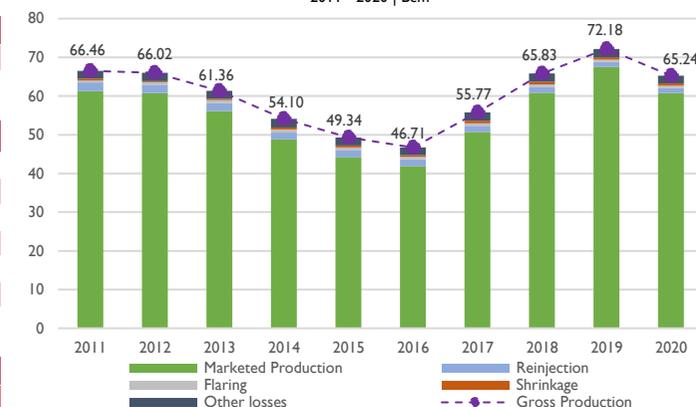
Table 4.3.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	66.46	66.02	61.36	54.10	49.34	46.71	55.77	65.83	72.18	65.24
<b>Marketed Production</b>	61.26	60.80	56.13	48.79	44.26	41.93	50.71	60.84	67.46	60.75
<b>Reinjection</b>	2.21	2.09	2.02	1.77	1.78	1.72	1.55	1.50	1.38	1.35
<b>Flaring</b>	0.50	0.68	0.77	0.82	0.70	0.65	0.67	0.66	0.59	0.60
<b>Shrinkage</b>	0.50	0.31	0.33	0.49	0.45	0.40	0.68	0.69	0.58	0.59
<b>Other losses</b>	1.99	2.14	2.11	2.23	2.15	2.01	2.15	2.13	2.18	1.95

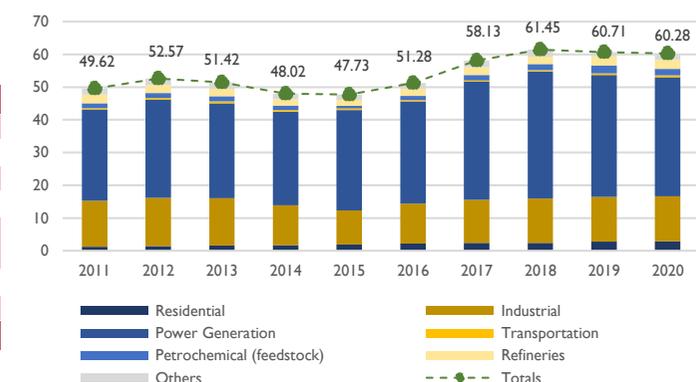
Table 4.3.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	5834.85	5272.04	5139.92	4803.47	5140.56	5294.63	5702.11	5605.04	5496.78	5439.74	5547.53	5963.79
<b>Marketed Production</b>	5416.08	4887.19	4757.87	4409.80	4765.60	4924.68	5325.99	5225.11	5136.81	5087.59	5195.12	5613.25

Graph 4.3.2.1. Egypt: Natural Gas Annual Production 2011 - 2020 | Bcm



Graph 4.3.3.1. Egypt: Natural Gas Annual Domestic Consumption 2011 - 2020 | Bcm



### 4.3.3 Domestic Consumption and Trade

Table 4.3.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Residential</b>	1.21	1.41	1.64	1.75	1.96	2.16	2.36	2.41	2.76	2.92
<b>Industrial</b>	14.10	14.73	14.41	12.12	10.41	12.21	13.23	13.53	13.68	13.69
<b>Power Generation</b>	27.83	30.08	29.05	28.63	30.65	31.25	36.03	38.81	37.23	36.39
<b>Transportation</b>	0.48	0.51	0.52	0.49	0.45	0.40	0.38	0.42	0.56	0.64
<b>Petrochemical (feedstock)</b>	1.48	1.46	1.60	1.41	0.83	1.34	1.70	1.92	2.36	1.89
<b>Refineries</b>	2.62	2.44	2.28	1.92	1.87	2.15	2.42	2.22	2.80	2.83
<b>Others</b>	1.90	1.95	1.94	1.71	1.57	1.77	2.03	2.14	1.32	1.91
<b>Totals</b>	<b>49.62</b>	<b>52.57</b>	<b>51.42</b>	<b>48.02</b>	<b>47.73</b>	<b>51.28</b>	<b>58.13</b>	<b>61.45</b>	<b>60.71</b>	<b>60.28</b>

Table 4.3.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	1.79	0.68	0.88	0.23	0.24	0.00	0.00	0.41	1.84	0.38
<b>LNG</b>	Bcm*	11.19	8.26	4.87	0.43	0.99	1.33	2.45	5.77	2.53
	MMT	8.23	6.07	3.58	0.32	0.00	0.73	1.80	4.24	1.86
<b>Totals (Bcm)</b>	<b>12.98</b>	<b>8.94</b>	<b>5.75</b>	<b>0.66</b>	<b>0.24</b>	<b>0.99</b>	<b>1.33</b>	<b>2.86</b>	<b>7.61</b>	<b>2.91</b>

\* Gas equivalent

Table 4.3.3.3 Detailed 2020 Trade: Natural Gas Exports

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	103.41	57.42	30.72	0.00	0.00	0.00	1.98	3.96	2.97	47.00	63.71	65.83
<b>LNG</b>	MMcm*	324.00	208.00	107.47	0.00	0.00	101.00	0.00	0.00	100.00	836.73	851.00
	1000MT	238.24	152.94	79.02	0.00	0.00	0.00	74.26	0.00	0.00	73.53	615.24
<b>Totals (MMcm)</b>	<b>427.41</b>	<b>265.42</b>	<b>138.19</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>102.98</b>	<b>3.96</b>	<b>2.97</b>	<b>147.00</b>	<b>900.44</b>	<b>916.83</b>

\* Gas equivalent

Graph 4.3.3.2. Egypt: Natural Gas Exports and Imports 2011 - 2020 | Bcm

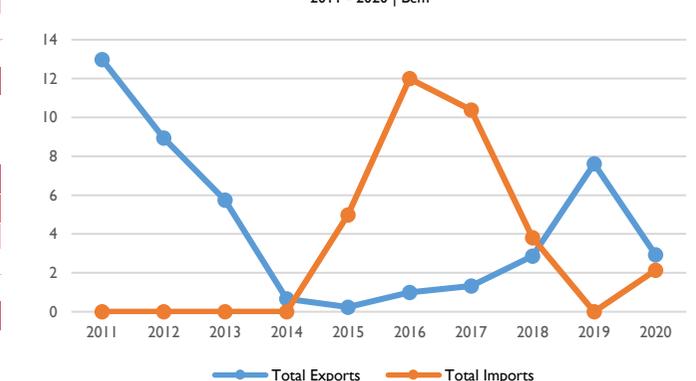


Table 4.3.3.4 Historical Trade: Natural Gas Imports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	0.00	0.00	0.00	0.00	4.99	11.99	10.38	3.81	0.00	2.14
<b>LNG</b>	0.00	0.00	0.00	0.00	4.27	10.13	8.81	3.24	0.00	0.00
Bcm*										
MMT	0.00	0.00	0.00	0.00	3.14	7.45	6.48	2.38	0.00	0.00
<b>Totals (Bcm)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>9.26</b>	<b>22.13</b>	<b>19.20</b>	<b>7.05</b>	<b>0.00</b>	<b>2.14</b>

\* Gas equivalent

Table 4.3.3.5 Detailed 2020 Trade: Natural Gas Imports

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	69.49	112.38	113.93	38.33	28.76	55.04	173.74	302.45	316.81	329.50	272.94	326.85
<b>LNG</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MMcm*												
1000MT	0.00	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>69.49</b>	<b>112.38</b>	<b>113.93</b>	<b>38.33</b>	<b>28.76</b>	<b>55.04</b>	<b>173.74</b>	<b>302.45</b>	<b>316.81</b>	<b>329.50</b>	<b>272.94</b>	<b>326.85</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								
Arab Gas Pipeline	Egypt	Jordan, Syria, Lebanon	-	EGAS, ENPPI, GASCOJET SPC	Egyptian FAJR	Operational	10.0	Export	2003	1,200	36
EMG	Israel	Egypt	-	EMG	Israel Natural Gas Lines (INGL)	Operational	7.0-9.0	Import	2020	90	26

Table 4.3.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
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

Table 4.3.4.3 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Ain Sokhna FSRU 1	3.0	Operational	2015	Norwegian Hoegh	Norwegian Hoegh
Ain Sokhna FSRU 2	4.5	Offline	2015	Norwegian BW Gas	Norwegian BW Gas



Republic of

# EQUATORIAL GUINEA



Population:  
1 402 985



Capital:  
Malabo



Continent:  
Africa



Currency:  
Central African  
CFA franc



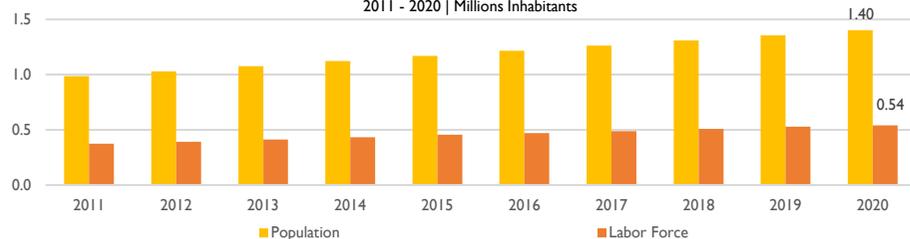
Time Zone:  
West Africa  
GMT+1

## 4.4.1 Macroeconomics

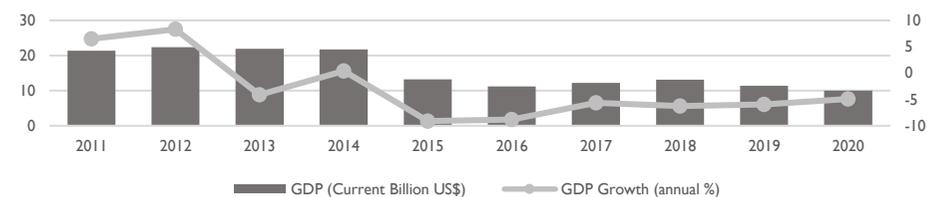
Table 4.4.1.1 Equatorial Guinea Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	986,861	1,031,191	1,076,412	1,122,273	1,168,575	1,215,181	1,262,008	1,308,966	1,355,982	1,402,985
<b>Labor Force</b> (Inhabitants)	375,149	393,137	412,680	433,715	455,687	471,729	489,286	508,608	529,668	539,283
<b>GDP</b> (Current Billion US\$)	21.36	22.39	21.95	21.77	13.19	11.24	12.20	13.10	11.42	10.02
<b>GDP Growth</b> (annual %)	6.52	8.31	-4.13	0.42	-9.11	-8.82	-5.67	-6.24	-5.98	-4.89
<b>GDP per capita</b> (Current US\$)	21,641.69	21,711.15	20,390.74	19,394.08	11,283.40	9,250.32	9,667.86	10,005.62	8,419.93	7,143.24
<b>Exports of Goods and Services</b> (Current Billion US\$)	16.04	16.10	14.85	14.36	7.47	5.78	7.18	7.81	6.03	4.34
<b>Exports of Goods and Services</b> (% of GDP)	75.10	71.90	67.65	65.96	56.66	51.41	58.86	59.61	52.81	43.33
<b>Imports of Goods and Services</b> (Current Billion US\$)	8.39	10.02	8.61	8.36	5.57	4.63	5.32	5.77	4.76	4.66
<b>Imports of Goods and Services</b> (% of GDP)	39.28	44.77	39.24	38.42	42.22	41.19	43.57	44.03	41.70	46.45
<b>Inflation consumer prices</b> (annual %)	4.81	3.66	2.95	4.31	1.68	1.41	0.75	1.35	1.24	4.77
<b>Energy use</b> (kg of oil equivalent per capita)	NA									
<b>Natural Gas use</b> (Scm per capita)	1,410.53	1,410.99	1,365.65	1,282.22	1,101.34	1,310.92	1,248.80	1,162.31	1,095.34	1,311.20

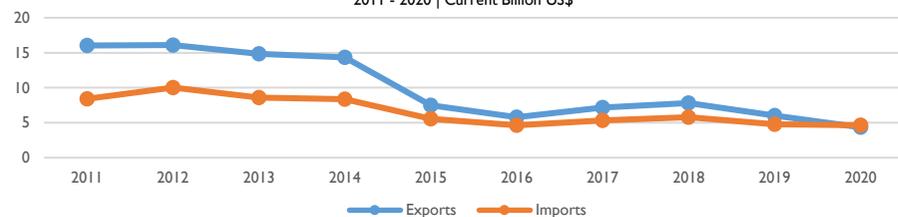
Graph 4.4.1.1. Equatorial Guinea: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



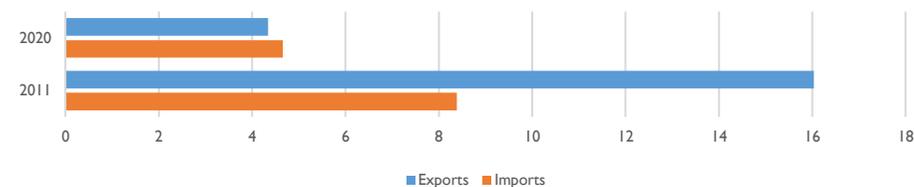
Graph 4.4.1.2. Equatorial Guinea: GDP and GDP Growth  
2011 - 2020 | Current Billion US\$ and Annual %



Graph 4.4.1.3. Equatorial Guinea: Exports and Imports (Goods and Services)  
2011 - 2020 | Current Billion US\$



Graph 4.4.1.4. Equatorial Guinea: Exports and Imports (Goods and Services)  
2011 vs 2020 | Current Billion US\$



Graph 4.4.1.5. Equatorial Guinea: Inflation (Consumer Prices)  
2011 - 2020 | Annual %



Graph 4.4.1.6. Equatorial Guinea: Natural Gas Use  
2011 - 2020 | Scm per Capita



## 4.4.2 Reserves and Production

Table 4.4.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	78	71	66	60	54	47	42	42	39	39

Table 4.4.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	11.03	11.94	13.99	13.66	15.45	14.76	13.80	12.96	12.20	11.15
<b>Marketed Production</b>	8.48	8.22	8.41	8.23	7.44	7.88	8.24	7.75	6.74	6.02
<b>Reinjection</b>	0.26	1.33	3.04	3.03	5.62	4.62	3.53	3.43	3.71	3.44
<b>Flaring</b>	1.51	1.42	1.33	1.22	1.27	0.97	0.76	0.78	0.60	0.66
<b>Shrinkage</b>	NA	0.13								
<b>Other losses</b>	0.78	0.98	1.20	1.17	1.11	1.29	1.27	1.00	1.14	0.90

Table 4.4.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	1040.03	981.92	1050.10	1002.78	971.33	958.10	949.65	974.82	895.59	932.72	694.19	700.70
<b>Marketed Production</b>	557.84	511.06	540.68	521.79	531.07	504.92	443.24	524.26	472.68	491.25	445.78	478.91

## 4.4.3 Domestic Consumption and Trade

Table 4.4.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Power Generation</b>	0.13	0.23	0.22	0.22	0.26	0.29	0.28	0.28	0.31	0.29
<b>Petrochemical (feedstock)</b>	1.26	1.23	1.25	1.22	1.03	1.30	1.30	1.24	1.18	1.01
<b>Others</b>	NA	0.58								
<b>Totals</b>	1.39	1.46	1.47	1.44	1.29	1.59	1.58	1.52	1.49	1.88

Table 4.4.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>LNG</b>	Bcm*	5.61	5.55	5.77	5.87	5.30	5.31	5.88	5.24	4.45	4.03
	MMT	4.13	4.08	4.25	4.31	3.89	3.90	4.32	3.85	3.27	2.96
<b>Totals (Bcm)</b>	5.61	5.55	5.77	5.87	5.30	5.31	5.88	5.24	4.45	4.03	

\* Gas equivalent

Table 4.4.3.3 Detailed 2020 Trade: Natural Gas Exports

	2020												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>LNG</b>	MMcm*	322.64	445.80	405.66	342.00	417.62	307.87	303.58	328.75	313.75	275.75	340.48	222.20
	1000MT	237.23	327.80	298.28	251.47	307.07	226.37	223.22	241.73	230.70	202.75	250.35	163.38
<b>Totals (MMcm)</b>	322.64	445.80	405.66	342.00	417.62	307.87	303.58	328.75	313.75	275.75	340.48	222.20	

\* Gas equivalent

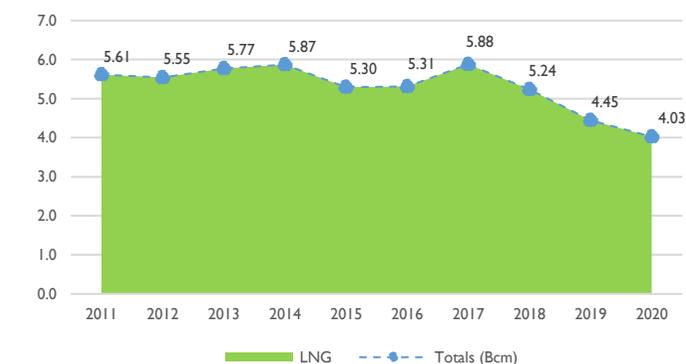
Graph 4.4.2.1. Equatorial Guinea: Natural Gas Annual Production



Graph 4.4.3.1. Equatorial Guinea: Natural Gas Annual Domestic Consumption



Graph 4.4.3.2. Equatorial Guinea: Natural Gas Annual Exports



## 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)
Equatorial Guinea (EG) LNG	1	3.7	Operational	2007	Marathon, Sonagas, Mitsui, Marubeni	EG LNG



Islamic Republic of  
**IRAN**



Population:  
83 992 953



Capital:  
Tehran



Continent:  
Middle East



Currency:  
Iranian Rial



Time Zone:  
Iran Standard  
GMT+3.5

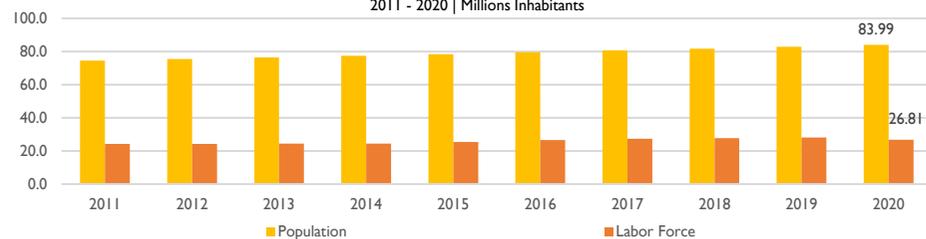
## 4.5.I Macroeconomics

Table 4.5.I.1 Iran Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	74,634,959	75,539,881	76,481,963	77,465,769	78,492,208	79,563,991	80,673,888	81,800,204	82,913,893	83,992,953
<b>Labor Force</b> (Inhabitants)	24,155,493	24,266,673	24,357,612	24,418,459	25,357,014	26,558,433	27,421,048	27,769,359	28,212,245	26,813,322
<b>GDP</b> (Current Billion US\$)	580.76	598.87	460.29	432.69	384.95	417.98	445.35	294.36	258.25	191.72
<b>GDP Growth</b> (annual %)	2.65	-7.44	-0.19	4.60	-1.32	13.40	3.76	-6.03	-6.78	1.66
<b>GDP per capita</b> (Current US\$)	7,781.41	7,927.84	6,018.32	5,585.53	4,904.33	5,253.43	5,520.31	3,598.48	3,114.62	2,282.55
<b>Exports of Goods and Services</b> (Current Billion US\$)	148.87	144.50	123.74	100.13	76.00	93.65	111.08	97.81	65.25	28.82
<b>Exports of Goods and Services</b> (% of GDP)	25.63	24.13	26.88	23.14	19.74	22.40	24.94	33.23	25.27	15.03
<b>Imports of Goods and Services</b> (Current Billion US\$)	101.97	139.20	107.94	92.87	74.20	86.98	106.16	93.67	79.81	40.49
<b>Imports of Goods and Services</b> (% of GDP)	17.56	23.24	23.45	21.46	19.27	20.81	23.84	31.82	30.91	21.12
<b>Inflation consumer prices</b> (annual %)	26.29	27.26	36.60	16.61	12.48	7.25	8.04	18.01	39.91	NA
<b>Energy use</b> (kg of oil equivalent per capita)	2,791.11	2,869.33	2,889.11	3,060.39	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	2,288.34	2,281.31	2,243.27	2,427.14	2,585.86	2,653.84	2,699.26	2,785.14	2,788.68	2,774.01

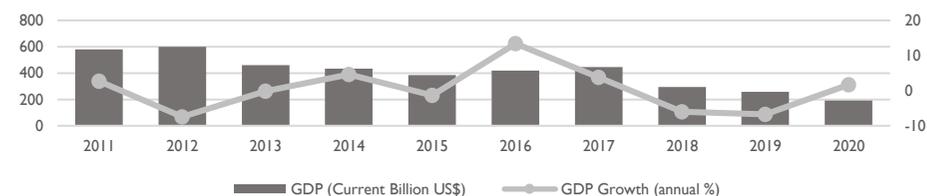
Graph 4.5.I.1. Iran: Population and Labor Force

2011 - 2020 | Millions Inhabitants



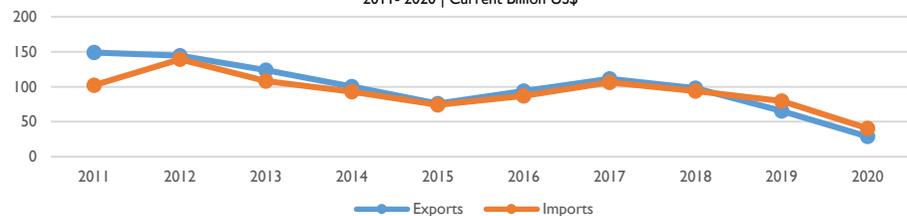
Graph 4.5.I.2. Iran: GDP and GDP Growth

2011 - 2020 | Current Billion US\$ and Annual %



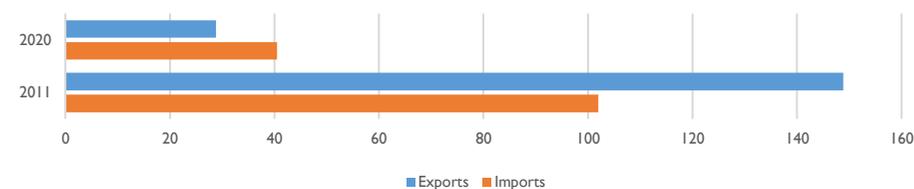
Graph 4.5.I.3. Iran: Exports and Imports (Goods and Services)

2011 - 2020 | Current Billion US\$



Graph 4.5.I.4. Iran: Exports and Imports (Goods and Services)

2011 vs 2020 | Current Billion US\$



Graph 4.5.I.5. Iran: Inflation (Consumer Prices)

2011 - 2019 | Annual %



Graph 4.5.I.6. Iran: Natural Gas Use

2011 - 2020 | Scm per Capita



## 4.5.2 Reserves and Production

Table 4.5.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	33,620	33,790	33,710	33,850	33,440	33,720	33,820	33,330	33,899	33,988

Table 4.5.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	227.48	229.14	229.83	245.68	256.98	277.39	301.45	311.49	322.50	329.86
<b>Marketed Production</b>	170.78	172.31	171.57	188.02	202.97	211.14	217.80	233.06	241.73	249.63
<b>Reinjection</b>	31.44	28.72	29.61	28.08	28.90	31.69	31.09	33.57	32.86	31.10
<b>Shrinkage</b>	8.62	8.80	7.99	9.45	10.68	11.82	12.94	12.64	13.97	14.43
<b>Other losses</b>	16.64	19.31	20.66	20.13	14.43	22.74	39.62	31.31	34.86	34.70

## 4.5.3 Domestic Consumption and Trade

Table 4.5.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Residential</b>	77.30	78.03	78.45	83.35	81.98	85.17	88.85	93.98	97.32	NA
<b>Industrial</b>	20.35	23.10	23.28	22.40	25.85	28.67	31.55	32.80	33.56	NA
<b>Power Generation</b>	39.32	38.12	36.70	45.35	56.87	62.03	65.48	67.52	68.19	NA
<b>Transportation</b>	6.03	6.65	6.65	7.05	7.37	7.56	7.59	8.12	8.37	NA
<b>Petrochemical (feedstock)</b>	4.62	4.55	3.70	4.19	4.54	5.07	5.82	5.85	5.17	NA
<b>Refineries</b>	8.60	7.14	7.71	8.13	7.13	5.54	5.13	5.65	5.95	NA
<b>Others</b>	14.57	14.74	15.08	17.55	19.23	17.11	13.34	13.90	12.66	NA
<b>Totals</b>	170.79	172.33	171.57	188.02	202.97	211.15	217.76	227.82	231.22	233.00

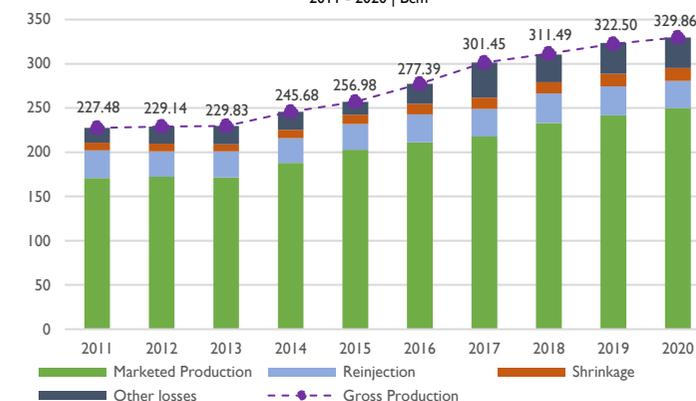
Table 4.5.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	9.12	9.18	9.54	9.76	8.60	8.65	12.89	12.24	12.35	11.52
<b>Totals (Bcm)</b>	9.12	9.18	9.54	9.76	8.60	8.65	12.89	12.24	12.35	11.52

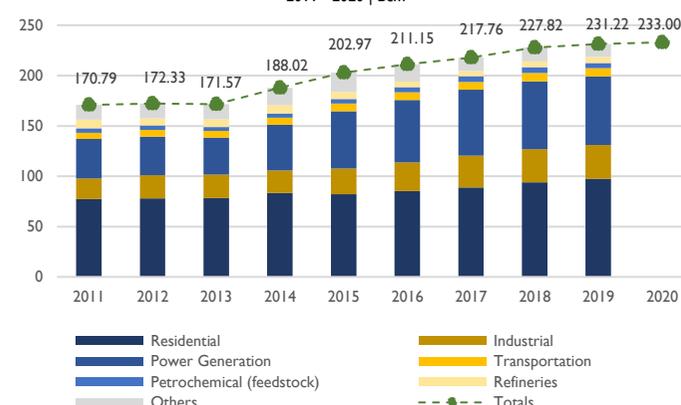
Table 4.5.3.4 Historical Trade: Natural Gas Imports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	11.65	6.51	5.09	6.33	9.50	7.33	4.72	5.91	1.27	0.02
<b>Totals (Bcm)</b>	11.65	6.51	5.09	6.33	9.50	7.33	4.72	5.91	1.27	0.02

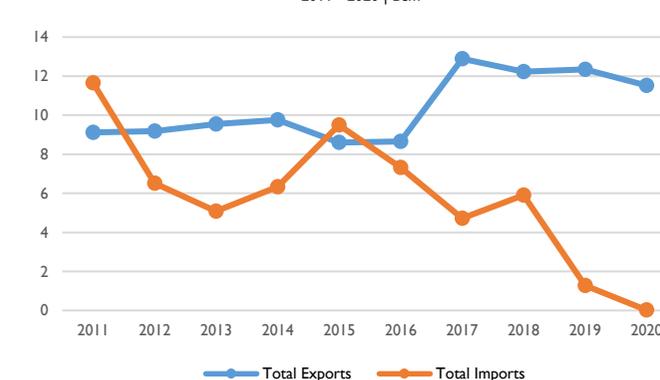
Graph 4.5.2.1. Iran: Natural Gas Annual Production  
2011 - 2020 | Bcm



Graph 4.5.3.1. Iran: Natural Gas Annual Domestic Consumption  
2011 - 2020 | Bcm



Graph 4.5.3.2. Iran: Natural Gas Exports and Imports  
2011 - 2020 | Bcm



## 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								
Tabriz-Ankara	Iran	Turkey	-	NIOC, Botas	NIOC, Botas	Operational	14.0	Export	2002	3,250	40
Jolfa-Nakhchivan	Iran	Azerbaijan	-	NIGC, SOCAR	NIGC, SOCAR	Operational	10.0	Swap	2005	627	40
Tabriz-Sardanian	Iran	Armenia	-	NIOC, Armenia Gazprom	NIOC, Armenia Gazprom	Operational	2.3	Export	2006	140	30
Asaluye-Baghdad	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	12.8	Export	2017	230	NA
Dauletabad-Khangiran	Turkmenistan	Iran	-	Turkmengaz	Turkmengaz	Operational	12.0	Import	2007	182	48
Asaluye-Basrah	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	-	Export	-	-	-
Asaluye-Nawabshah	Iran	Pakistan	-	NIOC, SNGPL, SSGC, Gazprom JSC	NIOC, SNGPL, SSGC, Gazprom JSC	Proposed	40.0	Export	NA	2,775	56
Asaluye-Sohar	Iran	Oman	-	NIOC, OGC	NIOC, OGC	Planned	9.9	Export	2020	NA	NA

Table 4.5.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Iran LNG	2	6.7	Cancelled	NA	NIOC	Iran LNG
Iran FLNG	1	0.7	Planned	NA	NIOC	NA



State of  
**LIBYA**



Population:  
6 871 287



Capital:  
Tripoli



Continent:  
Africa



Currency:  
Libyan Dinar



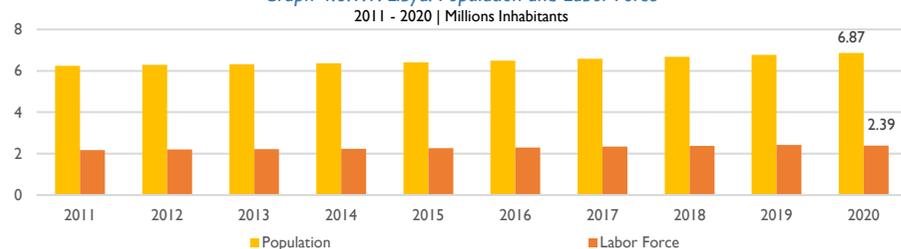
Time Zone:  
Eastern European  
GMT+2

## 4.6.I Macroeconomics

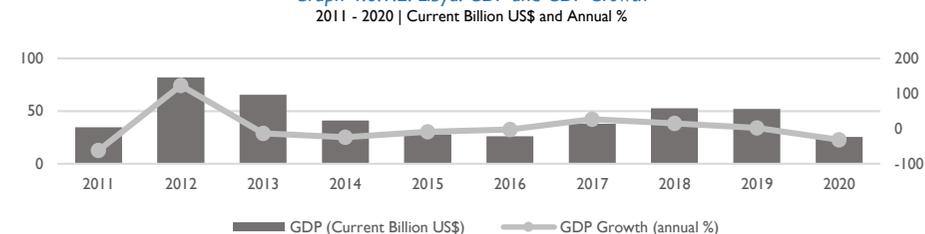
Table 4.6.1.1 Libya Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	6,247,438	6,285,751	6,320,350	6,362,039	6,418,315	6,492,160	6,580,723	6,678,565	6,777,453	6,871,287
<b>Labor Force</b> (Inhabitants)	2,174,527	2,198,559	2,219,438	2,238,978	2,260,370	2,296,531	2,337,204	2,380,697	2,422,944	2,389,259
<b>GDP</b> (Current Billion US\$)	34.70	81.87	65.50	41.14	27.84	26.20	37.88	52.61	52.09	25.42
<b>GDP Growth</b> (annual %)	-62.08	123.14	-13.60	-24.00	-8.86	-2.80	26.68	15.13	2.54	-31.30
<b>GDP per capita</b> (Current US\$)	5,554.18	13,025.28	10,363.80	6,466.91	4,337.92	4,035.20	5,756.70	7,877.12	7,685.95	3,699.23
<b>Exports of Goods and Services</b> (Current Billion US\$)	19.03	61.10	46.14	19.34	11.13	6.85	18.92	29.96	33.53	8.61
<b>Exports of Goods and Services</b> (% of GDP)	54.83	74.62	70.43	47.01	39.97	26.14	49.94	56.95	64.37	33.89
<b>Imports of Goods and Services</b> (Current Billion US\$)	15.54	32.54	42.46	37.80	20.68	11.55	15.07	18.85	27.66	20.38
<b>Imports of Goods and Services</b> (% of GDP)	44.79	39.75	64.83	91.88	74.28	44.08	39.79	35.82	53.10	80.17
<b>Inflation consumer prices</b> (annual %)	15.52	6.06	2.61	NA						
<b>Energy use</b> (kg of oil equivalent per capita)	2,190.81	2,744.01	3,071.82	2,808.65	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	688.54	1,545.08	1,809.18	1,598.16	1,353.82	1,308.99	1,239.99	1,245.09	1,238.30	1,119.73

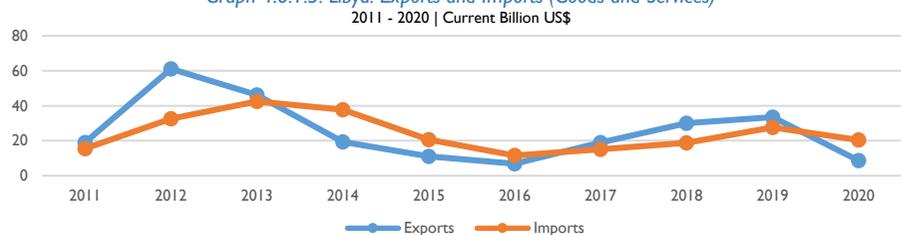
Graph 4.6.1.1. Libya: Population and Labor Force



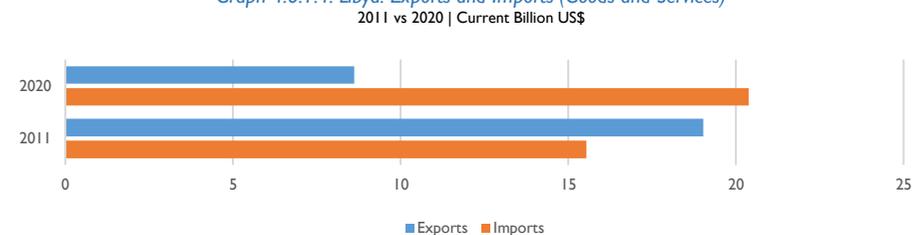
Graph 4.6.1.2. Libya: GDP and GDP Growth



Graph 4.6.1.3. Libya: Exports and Imports (Goods and Services)



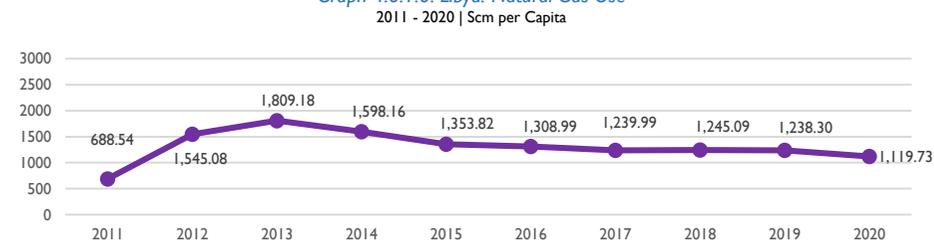
Graph 4.6.1.4. Libya: Exports and Imports (Goods and Services)



Graph 4.6.1.5. Libya: Inflation (Consumer Prices)



Graph 4.6.1.6. Libya: Natural Gas Use



## 4.6.2 Reserves and Production

Table 4.6.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	1,547	1,549	1,506	1,505	1,505	1,505	1,505	1,505	1,505	1,505

Table 4.6.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	9.86	23.44	22.88	20.94	22.56	24.59	27.55	30.32	32.66	25.54
<b>Marketed Production</b>	6.96	16.07	16.99	16.59	15.15	18.72	20.69	23.22	26.83	20.93
<b>Reinjection</b>	0.70	1.40	1.15	0.00	0.00	0.00	0.00	1.49	2.27	0.98
<b>Flaring</b>	1.30	3.92	3.25	2.12	2.70	2.21	3.38	3.61	3.67	1.98
<b>Other losses</b>	0.90	2.05	1.49	2.23	4.71	3.65	3.48	1.99	-0.10	1.65

Table 4.6.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	2802.50	2219.20	1980.80	1965.40	1979.10	1983.10	1967.90	1957.50	1664.40	2030.70	2406.70	2585.80
<b>Marketed Production</b>	2341.60	1834.00	1656.80	1673.90	1660.80	1628.60	1649.00	1619.40	1353.80	1628.00	1814.00	2066.60

## 4.6.3 Domestic Consumption and Trade

Table 4.6.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Residential</b>	0.000	0.000	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003
<b>Industrial</b>	0.97	0.66	1.28	1.32	0.76	0.67	0.59	0.67	0.92	0.74
<b>Power Generation</b>	2.56	7.93	8.87	7.77	6.69	7.36	7.13	7.20	7.47	6.95
<b>Petrochemical (feedstock)</b>	0.61	0.91	0.93	0.72	1.08	0.46	0.44	0.44	0.00	0.00
<b>Refineries</b>	0.16	0.22	0.36	0.36	0.17	0.00	0.00	0.00	0.00	0.00
<b>Totals</b>	<b>4.30</b>	<b>9.71</b>	<b>11.44</b>	<b>10.17</b>	<b>8.69</b>	<b>8.50</b>	<b>8.16</b>	<b>8.32</b>	<b>8.40</b>	<b>7.70</b>

Table 4.6.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	2.57	6.35	5.55	6.42	7.03	5.60	5.04	5.63	7.11	4.87
<b>LNG</b>										
Bcm*	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MMT	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Totals (Bcm)</b>	<b>2.66</b>	<b>6.35</b>	<b>5.55</b>	<b>6.42</b>	<b>7.03</b>	<b>5.60</b>	<b>5.04</b>	<b>5.63</b>	<b>7.11</b>	<b>4.87</b>

\* Gas equivalent

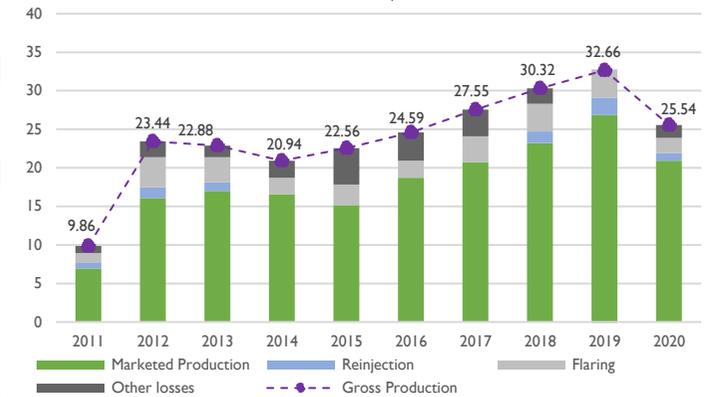
Table 4.6.3.3 Detailed 2020 Trade: Natural Gas Exports

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	432.70	436.80	439.10	460.00	391.10	379.20	364.50	421.80	226.00	593.00	423.00	305.00
<b>LNG</b>												
MMcm*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000MT	0.00	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>432.70</b>	<b>436.80</b>	<b>439.10</b>	<b>460.00</b>	<b>391.10</b>	<b>379.20</b>	<b>364.50</b>	<b>421.80</b>	<b>226.00</b>	<b>593.00</b>	<b>423.00</b>	<b>305.00</b>

\* Gas equivalent

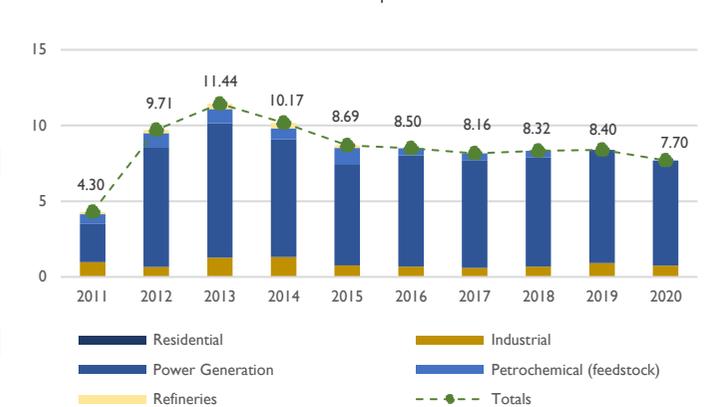
Graph 4.6.2.1. Libya: Natural Gas Annual Production

2011 - 2020 | Bcm



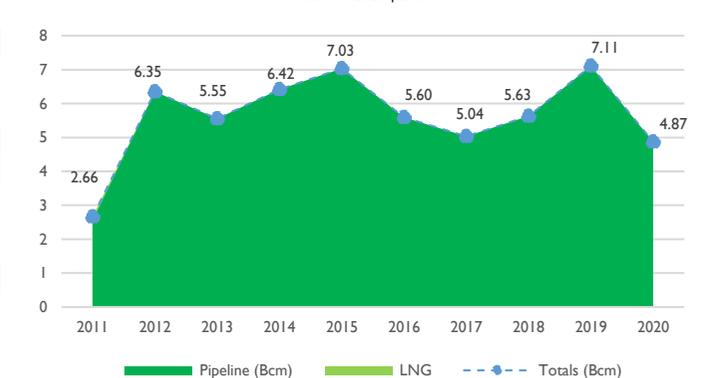
Graph 4.6.3.1. Libya: Natural Gas Annual Domestic Consumption

2011 - 2020 | Bcm



Graph 4.6.3.2. Libya: Natural Gas Annual Exports

2011 - 2020 | Bcm



## 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								
Green Stream	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)
Marsa al Brega	1	3.2	Decommissioned	1960	Libya NOC	Sirte Oil Company



Federal Republic of

**NIGERIA**



Population:  
206 139 587



Capital:  
Abuja



Continent:  
Africa



Currency:  
Nigerian Naira



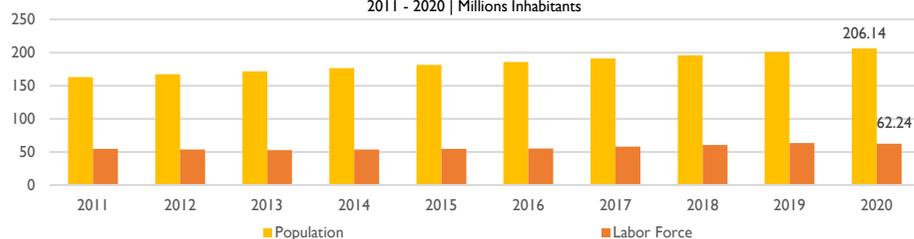
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## 4.7.1 Macroeconomics

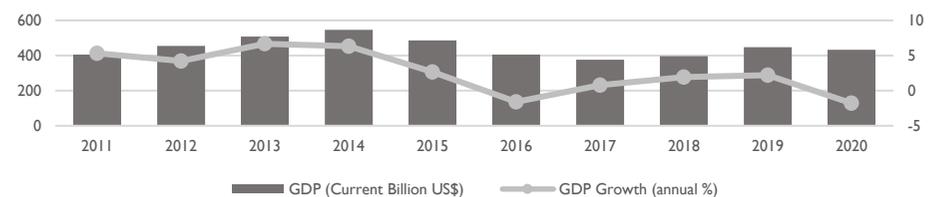
Table 4.7.1.1 Nigeria Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	162,805,080	167,228,803	171,765,819	176,404,931	181,137,454	185,960,244	190,873,247	195,874,685	200,963,603	206,139,587
<b>Labor Force</b> (Inhabitants)	54,535,983	53,686,203	52,794,910	53,696,560	54,557,234	55,285,972	57,856,159	60,517,054	63,226,720	62,242,961
<b>GDP</b> (Current Billion US\$)	404.99	455.50	508.69	546.68	486.80	404.65	375.75	397.19	448.12	432.29
<b>GDP Growth</b> (annual %)	5.31	4.23	6.67	6.31	2.65	-1.62	0.81	1.92	2.21	-1.79
<b>GDP per capita</b> (Current US\$)	2,487.60	2,723.82	2,961.55	3,098.99	2,687.48	2,176.00	1,968.57	2,027.78	2,229.86	2,097.09
<b>Exports of Goods and Services</b> (Current Billion US\$)	128.05	143.70	91.82	100.78	51.92	37.30	49.49	61.55	63.73	38.17
<b>Exports of Goods and Services</b> (% of GDP)	31.62	31.55	18.05	18.44	10.67	9.22	13.17	15.50	14.22	8.83
<b>Imports of Goods and Services</b> (Current Billion US\$)	87.73	59.15	66.12	68.06	51.92	46.55	49.51	69.55	88.74	71.63
<b>Imports of Goods and Services</b> (% of GDP)	21.66	12.99	13.00	12.45	10.67	11.50	13.18	17.51	19.80	16.57
<b>Inflation consumer prices</b> (annual %)	10.84	12.22	8.48	8.06	9.01	15.68	16.52	12.09	11.40	NA
<b>Energy use</b> (kg of oil equivalent per capita)	778.84	798.63	780.14	763.63	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	37.84	43.81	44.83	43.82	61.32	47.74	58.00	62.13	60.19	63.97

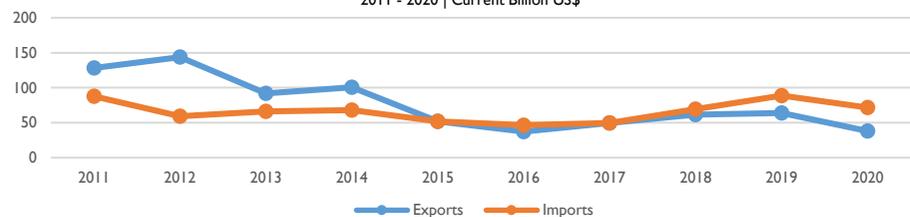
Graph 4.7.1.1. Nigeria: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



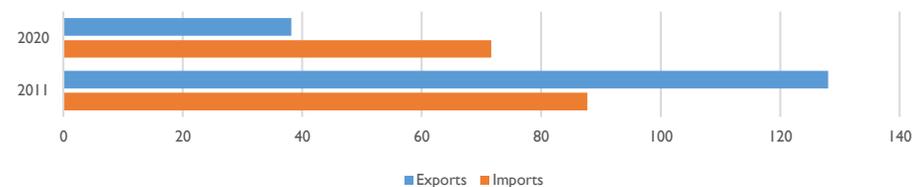
Graph 4.7.1.2. Nigeria: GDP and GDP Growth  
2011 - 2020 | Current Billion US\$ and Annual %



Graph 4.7.1.3. Nigeria: Exports and Imports (Goods and Services)  
2011 - 2020 | Current Billion US\$



Graph 4.7.1.4. Nigeria: Exports and Imports (Goods and Services)  
2011 vs 2020 | Current Billion US\$



Graph 4.7.1.5. Nigeria: Inflation (Consumer Prices)  
2011 - 2019 | Annual %



Graph 4.7.1.6. Nigeria: Natural Gas Use  
2011 - 2020 | Scm per Capita



## 4.7.2 Reserves and Production

Table 4.7.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	5,171	5,115	5,108	5,303	5,280	5,475	5,627	5,685	5,761	5,750

Table 4.7.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	84.01	84.85	79.63	86.33	85.22	76.78	79.49	80.27	81.05	77.23
<b>Marketed Production</b>	41.32	42.57	38.41	43.84	45.15	41.99	45.79	46.97	47.70	47.94
<b>Reinjection</b>	22.52	20.52	21.47	22.89	21.04	19.90	21.68	21.51	22.32	19.76
<b>Flaring</b>	14.27	13.18	12.11	10.74	9.69	8.18	8.14	7.98	6.86	5.47
<b>Other losses</b>	5.89	8.57	7.64	8.85	9.35	6.70	3.88	3.81	4.16	4.06

Table 4.7.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	7142.64	6803.89	6141.38	6424.38	6555.98	6566.45	6670.88	6612.01	6280.05	5913.57	6216.66	5903.66
<b>Marketed Production</b>	4277.55	4146.80	3416.38	3860.97	4062.75	4206.80	4272.45	4180.19	3881.91	3593.25	3888.70	4152.18

## 4.7.3 Domestic Consumption and Trade

Table 4.7.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Industrial</b>	1.30	1.90	2.23	2.31	3.56	3.33	4.21	4.60	5.29	5.25
<b>Power Generation</b>	4.19	4.63	4.88	4.96	7.20	5.36	6.86	7.57	6.81	7.42
<b>Petrochemical (feedstock)</b>	0.55	0.69	0.47	0.35	0.27	0.06	0.00	0.00	0.00	0.00
<b>Refineries</b>	0.13	0.11	0.11	0.11	0.08	0.13	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	0.00	0.00	0.52
<b>Totals</b>	6.16	7.33	7.70	7.73	11.11	8.88	11.07	12.17	12.10	13.19

Table 4.7.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	0.83	0.40	0.60	0.60	0.60	0.12	0.39	0.72	0.79	0.89
<b>LNG</b>	Bcm*	25.94	28.27	24.54	26.78	26.70	34.33	31.11	32.02	31.04
	MMT	19.07	20.79	18.04	19.69	19.63	18.40	25.24	22.88	22.82
<b>Totals (Bcm)</b>	26.77	28.67	25.14	27.38	27.30	25.14	34.72	31.83	32.81	31.93

\* Gas equivalent

Table 4.7.3.3 Detailed 2020 Trade: Natural Gas Exports

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	71.88	42.45	58.02	80.09	87.73	83.77	84.05	77.83	72.73	73.86	75.84	78.39
<b>LNG</b>	MMcm*	2910.94	2767.46	2104.11	2470.87	2492.95	2803.12	2858.30	2714.54	2671.80	2273.34	2388.52
	1000MT	2140.40	2034.89	1547.14	1816.82	1833.05	2061.11	2101.69	1995.98	1964.56	1671.57	1756.26
<b>Totals (MMcm)</b>	2982.82	2809.91	2162.12	2550.96	2580.68	2886.88	2942.35	2792.36	2744.53	2347.20	2464.36	2664.45

\* Gas equivalent

Graph 4.7.2.1. Nigeria: Natural Gas Annual Production



Graph 4.7.3.1. Nigeria Natural Gas Annual Domestic Consumption



Graph 4.7.3.2. Nigeria: Natural Gas Annual Exports



## 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								
West African Gas Pipeline	Nigeria	Ghana	Benin-Togo	WAGP	Chevron	Operational	8.3	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)
NLNG 1 & 2	2	7.0	Operational	1999	Nigeria LNG	Nigeria LNG
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	2024	Nigeria LNG	Nigeria LNG
NLNG 8	1	NA	Planned	NA	Nigeria LNG	Nigeria LNG
Yoho FLNG	1	1.2	Announced	2025	Yoho FLNG	Yoho FLNG



State of  
**QATAR**



11 610 km<sup>2</sup>



Population:  
2 881 060



Capital:  
Doha



Continent:  
Middle East



Currency:  
Qatari Riyal



Time Zone:  
Arabia  
GMT+3

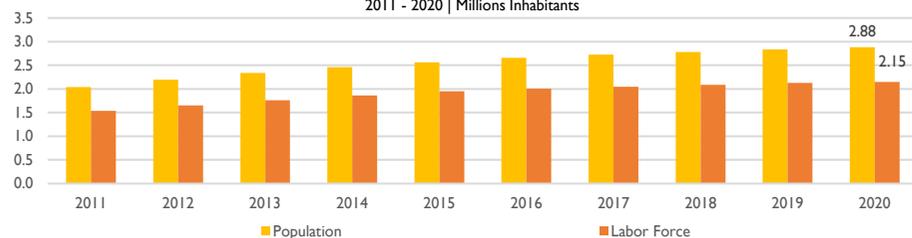
## 4.8. I Macroeconomics

Table 4.8.1.1 Qatar Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	2,035,862	2,196,078	2,336,579	2,459,202	2,565,708	2,654,379	2,724,727	2,781,682	2,832,071	2,881,060
<b>Labor Force</b> (Inhabitants)	1,536,256	1,651,719	1,758,740	1,859,066	1,952,289	2,004,466	2,046,232	2,085,153	2,124,262	2,146,738
<b>GDP</b> (Current Billion US\$)	167.78	186.83	198.73	206.22	161.74	151.73	161.10	183.33	175.84	146.37
<b>GDP Growth</b> (annual %)	13.38	4.73	5.56	5.33	4.75	3.06	-1.50	1.23	0.77	-3.67
<b>GDP per capita</b> (Current US\$)	82,409.94	85,075.99	85,050.68	83,858.34	63,039.11	57,162.97	59,124.87	65,907.95	62,087.97	50,805.46
<b>Exports of Goods and Services</b> (Current Billion US\$)	121.84	142.88	144.51	140.23	92.29	72.40	85.20	102.56	92.05	NA
<b>Exports of Goods and Services</b> (% of GDP)	72.62	76.47	72.72	68.00	57.06	47.71	52.89	55.94	52.35	NA
<b>Imports of Goods and Services</b> (Current Billion US\$)	43.79	54.69	58.95	64.00	59.27	63.48	62.19	65.81	66.77	NA
<b>Imports of Goods and Services</b> (% of GDP)	26.10	29.27	29.67	31.04	36.65	41.83	38.61	35.90	37.97	NA
<b>Inflation consumer prices</b> (annual %)	1.14	2.32	3.22	3.35	1.81	2.68	0.39	0.26	-0.67	-2.54
<b>Energy use</b> (kg of oil equivalent per capita)	15,370.69	17,344.35	17,266.10	17,922.70	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	9,627.37	10,655.36	16,342.77	16,476.89	17,110.29	15,709.89	13,954.43	14,722.17	14,662.95	14,052.61

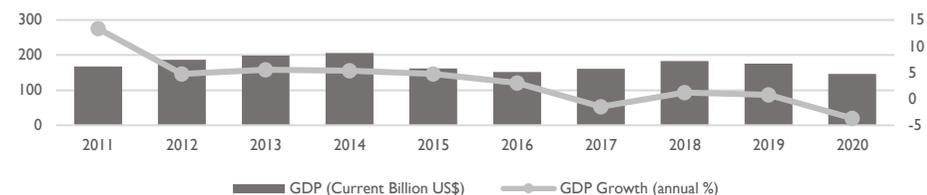
Graph 4.8.1.1. Qatar: Population and Labor Force

2011 - 2020 | Millions Inhabitants



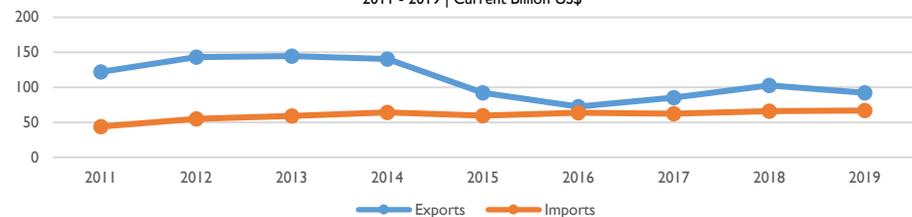
Graph 4.8.1.2. Qatar: GDP and GDP Growth

2011 - 2020 | Current Billion US\$ and Annual %



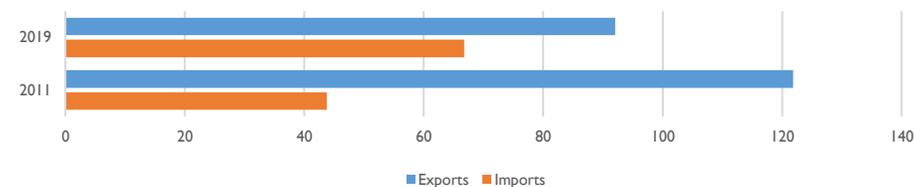
Graph 4.8.1.3. Qatar: Exports and Imports (Goods and Services)

2011 - 2019 | Current Billion US\$



Graph 4.8.1.4. Qatar: Exports and Imports (Goods and Services)

2011 vs 2019 | Current Billion US\$



Graph 4.8.1.5. Qatar: Inflation (Consumer Prices)

2011 - 2020 | Annual %



Graph 4.8.1.6. Qatar: Natural Gas Use

2011 - 2020 | Scm per Capita



## 4.8.2 Reserves and Production

Table 4.8.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	25,110	25,069	24,681	24,531	24,299	24,073	23,861	23,846	23,831	23,831

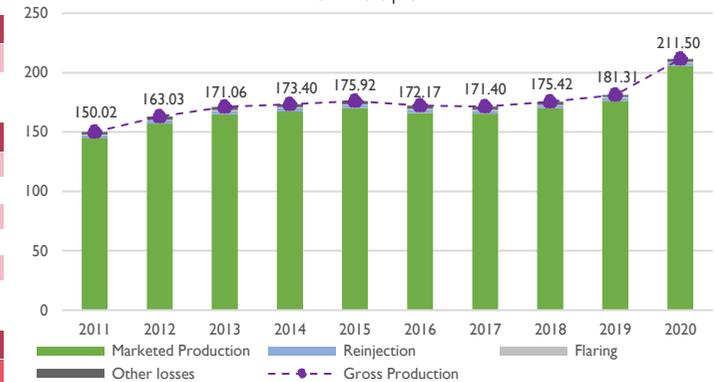
Table 4.8.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	150.02	163.03	171.06	173.40	175.92	172.17	171.40	175.42	181.31	211.50
<b>Marketed Production</b>	145.27	157.05	164.96	167.43	170.05	166.10	165.37	170.04	176.30	205.72
<b>Reinjection</b>	2.11	2.66	2.71	2.65	2.53	2.74	2.66	2.25	2.48	2.20
<b>Flaring</b>	0.56	0.70	0.74	0.71	0.72	0.72	0.69	0.60	0.70	1.10
<b>Other losses</b>	2.08	2.62	2.65	2.61	2.62	2.58	2.62	2.53	1.83	2.48

Table 4.8.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	18483.43	15603.72	17046.43	16826.16	18211.30	17991.68	18402.67	18442.17	17826.02	18380.72	16548.37	17736.40
<b>Marketed Production</b>	17977.80	15201.73	16527.64	16273.98	17706.56	17572.02	17922.50	17993.60	17448.84	17873.34	16021.67	17196.54

Graph 4.8.2.1. Qatar: Natural Gas Annual Production 2011 - 2020 | Bcm



## 4.8.3 Domestic Consumption and Trade

Table 4.8.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	19.60	23.40	38.19	40.52	43.90	41.70	38.02	40.95	41.53	40.49

Table 4.8.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>Pipeline (Bcm)</b>	19.20	19.22	19.90	20.09	19.75	20.00	21.96	22.36	22.45	22.62	
<b>LNG</b>	Bcm*	102.60	102.98	103.41	102.32	104.53	105.20	104.23	104.41	106.89	104.84
	MMT	75.44	75.72	76.04	75.24	76.86	77.35	76.64	76.77	78.60	77.09
<b>Totals (Bcm)</b>	121.80	122.20	123.31	122.41	124.28	125.20	126.19	126.77	129.34	127.46	

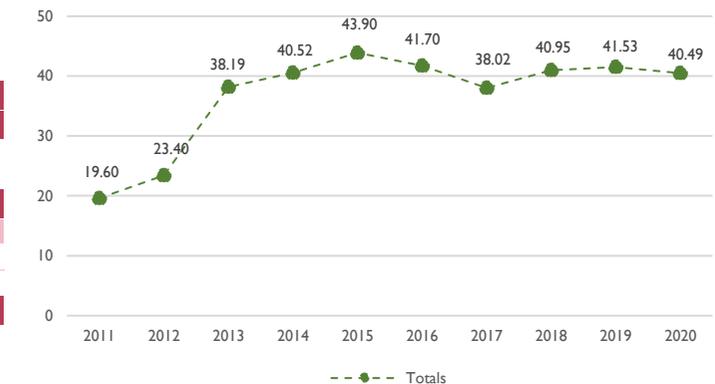
\* Gas equivalent

Table 4.8.3.3 Detailed 2020 Trade: Natural Gas Exports

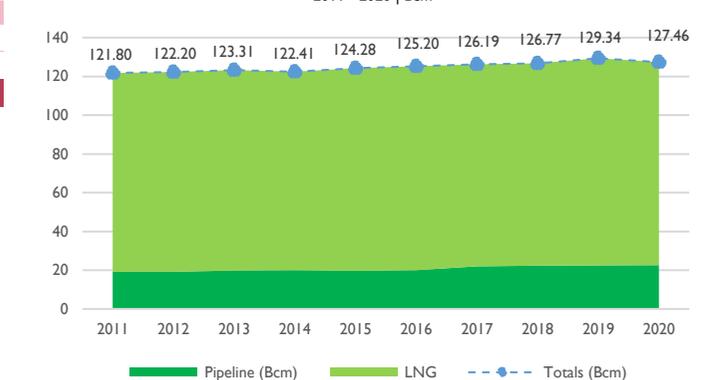
	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	1528.29	1221.02	1542.33	2018.43	2072.54	2026.92	2120.82	2126.96	2052.41	2122.57	1954.71	1828.50
<b>LNG</b>	MMcm*	9964.43	8564.61	9404.70	8339.30	8888.68	8737.71	9012.75	8641.25	8430.72	8645.48	7420.37
	1000MT	7326.79	6297.51	6915.22	6131.84	6535.80	6424.79	6627.02	6353.86	6199.06	6356.97	5456.15
<b>Totals (MMcm)</b>	11492.72	9785.63	10947.04	10357.73	10961.22	10764.63	11133.57	10768.21	10483.12	10768.05	9375.08	10619.20

\* Gas equivalent

Graph 4.8.3.1. Qatar: Natural Gas Annual Domestic Consumption 2011 - 2020 | Bcm



Graph 4.8.3.2. Qatar: Natural Gas Annual Exports 2011 - 2020 | Bcm



## 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
Mesaimeer	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 Re kayyat	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	TBA	174.00
Hull no. 2503	Nakilat/Maran Gas	TBA	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)
Qatargas 1	3	9.9	Operational	1996 1997 1998	Qatar Petroleum, ExxonMobil, Total, Mitsui, Marubeni	Qatargas
Qatargas 2	2	15.6	Operational	2009	Qatar Petroleum, ExxonMobil, 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	2	6.6	Operational	1999	Qatar Petroleum, ExxonMobil, Korea LNG Ltd, Itochu, LNG Japan Corp	Qatargas
Raslaffan (II)	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	2024 2025	Qatar Petroleum	Construction Phase
North Field Expansion 2	2	16.0	Project	2027	Qatar Petroleum	Project Phase





Russian Federation  
**RUSSIA**



Population:  
146 300 000



Capital:  
Moscow



Continent:  
Euroasia



Currency:  
Russian Ruble



Time Zone:  
GMT+3  
(Moscow)

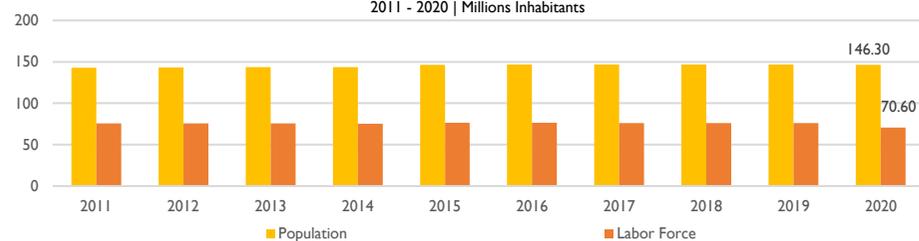
## 4.9.1 Macroeconomics

Table 4.9.1.1 Russia Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	142,960,908	143,201,721	143,506,995	143,700,000	146,500,000	146,800,000	146,900,000	146,900,000	146,800,000	146,300,000
<b>Labor Force</b> (Inhabitants)	75,779,000	75,676,000	75,529,000	75,428,000	76,588,000	76,636,000	76,109,000	76,011,000	75,878,000	70,600,000
<b>GDP</b> (Current Billion US\$)	2,045.93	2,208.30	2,292.47	2,059.24	1,363.48	1,276.79	1,574.20	1,657.33	1,687.45	1,483.50
<b>GDP Growth</b> (annual %)	4.30	4.02	1.76	0.74	-1.97	0.19	1.83	2.81	2.03	-3.10
<b>GDP per capita</b> (Current US\$)	14,311.08	15,420.87	15,974.64	14,095.65	9,313.01	8,704.90	10,720.33	11,287.36	11,497.65	10,126.72
<b>Exports of Goods and Services</b> (Current Billion US\$)	573.99	594.19	592.50	558.28	391.37	330.11	410.72	510.35	481.54	378.64
<b>Exports of Goods and Services</b> (% of GDP)	28.06	26.91	25.85	27.11	28.70	25.85	26.09	30.79	28.54	25.52
<b>Imports of Goods and Services</b> (Current Billion US\$)	408.78	447.05	468.62	426.06	281.64	263.83	327.21	344.52	352.81	305.01
<b>Imports of Goods and Services</b> (% of GDP)	19.98	20.24	20.44	20.69	20.66	20.66	20.79	20.79	20.91	20.56
<b>Inflation consumer prices</b> (annual %)	6.10	6.57	6.47	11.35	12.91	7.04	2.51	4.26	3.04	3.38
<b>Energy use</b> (kg of oil equivalent per capita)	5,049.43	5,167.01	5,078.63	4,942.88	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	3,329.58	3,289.07	3,247.23	3,235.91	3,037.54	3,024.52	3,151.80	3,328.80	3,412.81	2,822.76

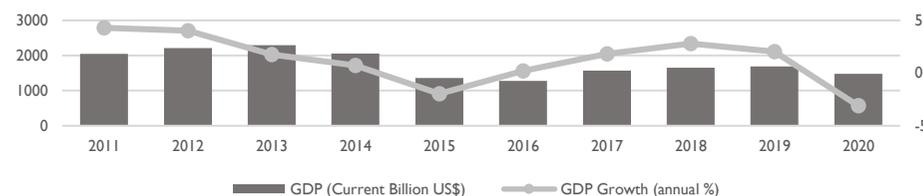
Graph 4.9.1.1. Russia: Population and Labor Force

2011 - 2020 | Millions Inhabitants



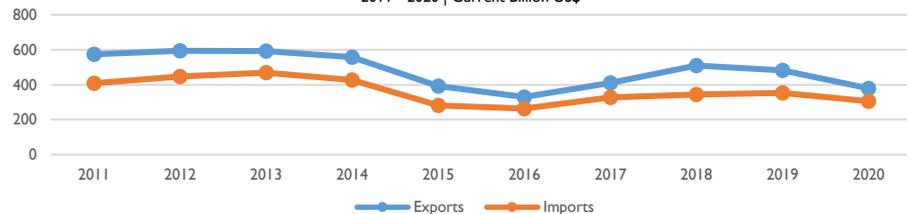
Graph 4.9.1.2. Russia: GDP and GDP Growth

2011 - 2020 | Current Billion US\$ and Annual %



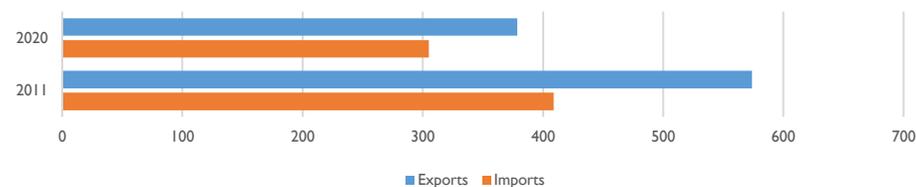
Graph 4.9.1.3. Russia: Exports and Imports (Goods and Services)

2011 - 2020 | Current Billion US\$



Graph 4.9.1.4. Russia: Exports and Imports (Goods and Services)

2011 vs 2020 | Current Billion US\$



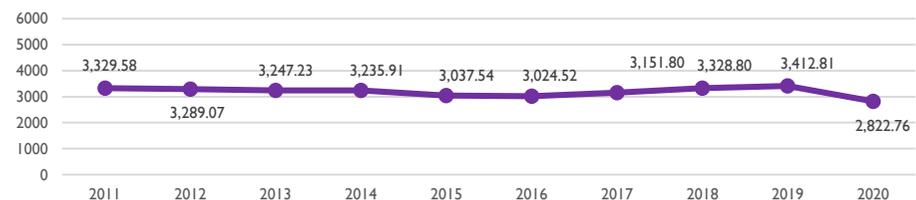
Graph 4.9.1.5. Russia: Inflation (Consumer Prices)

2011 - 2020 | Annual %



Graph 4.9.1.6. Russia: Natural Gas Use

2011 - 2020 | Scm per Capita



## 4.9.2 Reserves and Production

Table 4.9.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	48,676	48,810	49,335	49,896	50,205	50,617	50,508	49,571	49,154	47,759

Table 4.9.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	670.80	654.68	667.59	642.81	633.54	640.81	692.00	694.32	644.09	599.00
<b>Marketed Production</b>	628.83	615.61	626.93	607.57	608.95	615.07	636.35	668.23	620.46	577.62
<b>Flaring</b>	16.73	17.09	15.33	15.67	14.51	14.60	15.12	15.85	16.45	14.80
<b>Other losses</b>	6.67	6.76	6.76	6.59	6.76	6.59	7.04	7.24	7.17	6.58

Table 4.9.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	56226.32	52431.90	51569.54	47775.12	45274.26	41566.08	42687.16	46395.34	48292.54	54501.58	54587.82	57692.34
<b>Marketed Production</b>	NA											

## 4.9.3 Domestic Consumption and Trade

Table 4.9.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	476.00	471.00	466.00	465.00	445.00	444.00	463.00	489.00	501.00	412.97

Table 4.9.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	161.70	178.70	196.40	172.60	185.50	198.70	212.80	222.62	208.40	199.20
<b>LNG</b>	Bcm*	14.05	13.18	16.20	12.63	13.18	14.91	15.03	39.90	40.25
	MMT	10.33	9.69	11.91	9.29	9.69	10.96	11.05	18.74	29.60
<b>Totals (Bcm)</b>	175.75	191.88	212.60	185.23	198.68	213.61	227.83	248.10	248.30	239.45

\* Gas equivalent

Table 4.9.3.3 Detailed 2020 Trade: Natural Gas Exports

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Pipeline (MMcm)</b>	19609.25	15215.92	15108.77	12965.68	12751.37	14787.31	13287.14	18430.55	17144.70	19180.63	19609.25	21109.41
<b>LNG</b>	MMcm*	NA										
	1000MT	NA										
<b>Totals (MMcm)</b>	NA											

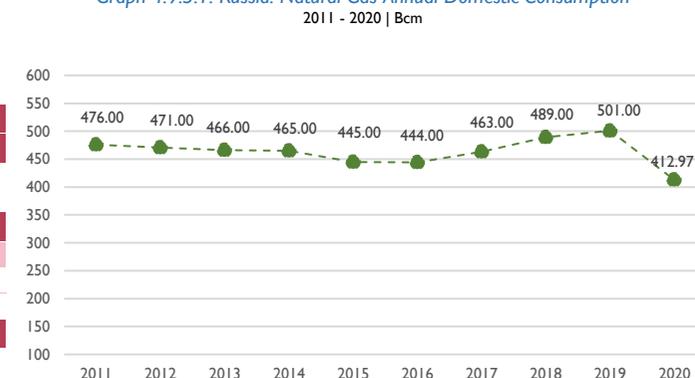
Table 4.9.3.3 Historical Trade: Natural Gas Imports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	7.97	8.06	8.23	8.58	8.84	8.93	8.94	9.37	9.11	8.99
<b>Totals (Bcm)</b>	7.97	8.06	8.23	8.58	8.84	8.93	8.94	9.37	9.11	8.99

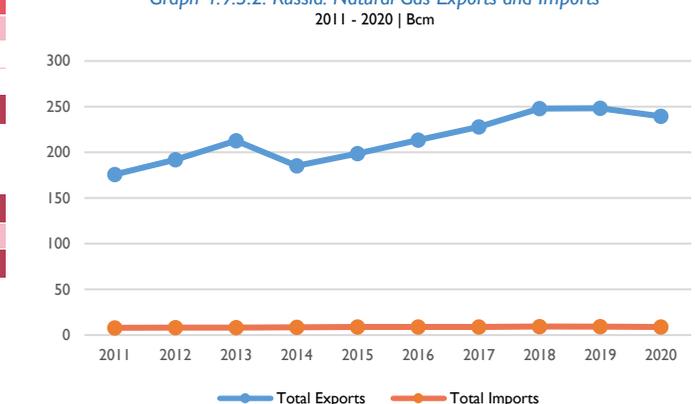
Graph 4.9.2.1. Russia: Natural Gas Annual Production



Graph 4.9.3.1. Russia: Natural Gas Annual Domestic Consumption



Graph 4.9.3.2. Russia: Natural Gas Exports and Imports



## 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								
Urengoy-Pomary-Uzhgorod	Russia	Europe	Ukraine	Gazprom	Gazprom	Operational	32	Export	1983	4,451	56
Blue Stream	Russia	Turkey	-	Gazprom, Blue Stream Pipeline Company BV	Gazprom, Blue Stream Pipeline Company BV	Operational	16.0	Export	2003	1,213	55/47
Yamal Europe	Russia	Europe (Poland Germany)	Belarus	Gazprom, EuRoPol Gaz, WINGAS	Gazprom	Operational	32.9	Export	2006	2,000	56
Nord Stream	Russia	Germany	-	Nord Stream AG JV	Nord Stream AG JV	Operational	55.0	Export	2011	1,224	48
Minsk-Vilnius-Kaunas-Kaliningrad	Russia	Russia	Belarus, Lithuania	Gazprom	Gazprom	Operational	2.5	Export	2011	155	20
Nord Stream 2	Russia	Germany	-	Nord Stream 2 AG	Nord Stream 2 AG	Under Certification Process	55.0	Export	2021 2022	1,200	48
TurkStream	Russia	Turkey	-	Gazprom	Gazprom	Operational	31.5	Export	2020	3000	32
Power of Siberia	Russia	China	-	Gazprom	Gazprom	Operational	38.0	Export	2019	3,000	56

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)
Sakhalin II	2	9.6	Operational	2009	Sakhalin Energy	Sakhalin Energy
Yamal LNG	3	16.5	Operational	2017	Novatek	Novatek
Krio-Vysotsk LNG	2	0.7	Operational	2019	Novatek	Novatek
Yamal LNG	1	0.9	Operational	2021	Novatek	Novatek
Arctic LNG	3	19.8	Under Construction	2023/2025	Novatek	Novatek
Portovaya LNG	1	1.5	Under Construction	2022	Gazprom	Gazprom
Baltic LNG	2	13.0	Under Construction	2023/2024	Gazprom	Gazprom
Sakhalin II	1	5.4	Planned	2024	Sakhalin Energy	Sakhalin Energy
Obskiy LNG	2	5.0	Cancelled	-	-	-

Table 4.9.4.4 Regasification Plants

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



Republic of

# TRINIDAD AND TOBAGO



Population:  
1 366 725



Capital:  
Port of Spain



Continent:  
South America  
Caribbean Sea



Currency:  
Trinidad and  
Tobago Dollar



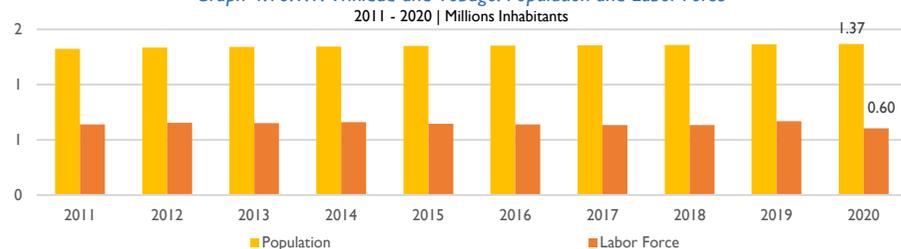
Time Zone:  
Atlantic  
GMT-4

## 4.10.1 Macroeconomics

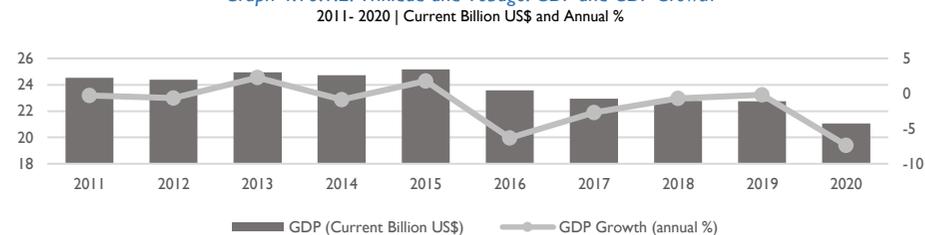
Table 4.10.1.1 Trinidad and Tobago Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	1,325,660	1,334,637	1,340,483	1,345,284	1,349,654	1,353,708	1,356,610	1,359,471	1,363,728	1,366,725
<b>Labor Force</b> (Inhabitants)	639,200	652,800	650,200	658,600	645,300	638,500	634,000	633,900	668,956	604,100
<b>GDP</b> (Current Billion US\$)	24.53	24.38	24.93	24.72	25.16	23.57	22.94	22.78	22.74	21.06
<b>GDP Growth</b> (annual %)	-0.30	-0.62	2.27	-0.86	1.78	-6.32	-2.68	-0.71	-0.17	-7.37
<b>GDP per capita</b> (Current US\$)	18,506.07	18,267.05	18,600.28	18,375.38	18,642.56	17,412.50	16,909.39	16,754.60	16,673.67	15,410.24
<b>Exports of Goods and Services</b> (Current Billion US\$)	14.19	12.28	17.84	13.81	11.73	8.50	9.64	10.76	8.76	5.96
<b>Exports of Goods and Services</b> (% of GDP)	57.86	50.35	71.57	55.87	46.61	36.08	42.04	47.22	38.54	28.32
<b>Imports of Goods and Services</b> (Current Billion US\$)	9.02	11.08	12.04	10.70	7.53	7.09	6.45	6.62	6.03	5.00
<b>Imports of Goods and Services</b> (% of GDP)	36.78	45.44	48.29	43.29	29.93	30.07	28.12	29.05	26.53	23.72
<b>Inflation consumer prices</b> (annual %)	5.10	9.20	5.20	5.70	4.70	3.10	1.90	0.90	1.00	0.53
<b>Energy use</b> (kg of oil equivalent per capita)	14,775.95	14,312.42	14,478.85	14,363.57	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	13,098.64	12,763.85	12,646.19	12,351.38	12,329.65	11,123.26	11,093.83	11,096.72	11,431.34	9,697.03

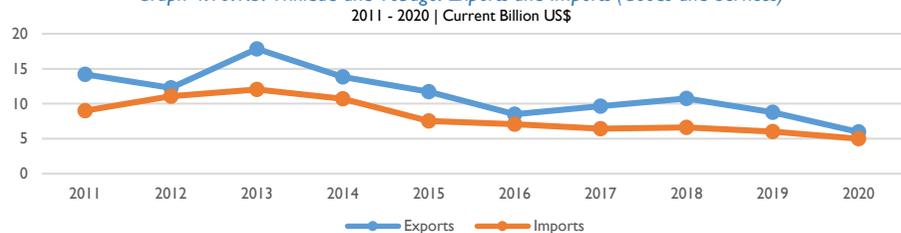
Graph 4.10.1.1. Trinidad and Tobago: Population and Labor Force



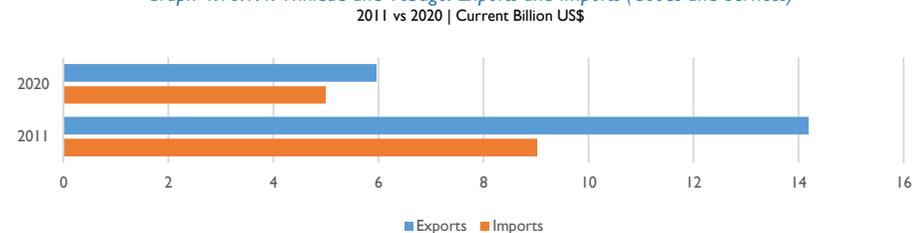
Graph 4.10.1.2. Trinidad and Tobago: GDP and GDP Growth



Graph 4.10.1.3. Trinidad and Tobago: Exports and Imports (Goods and Services)



Graph 4.10.1.4. Trinidad and Tobago: Exports and Imports (Goods and Services)



Graph 4.10.1.5. Trinidad and Tobago: Inflation (Consumer Prices)



Graph 4.10.1.6. Trinidad and Tobago: Natural Gas Use



### 4.10.2 Reserves and Production

Table 4.10.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	375	371	347	326	300	281	298	298	302	NA

Table 4.10.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	43.04	42.57	42.82	42.03	39.59	34.42	34.70	36.46	36.36	30.87
<b>Marketed Production</b>	39.73	39.01	39.53	38.99	36.94	32.18	32.77	34.91	35.37	30.16
<b>Reinjection</b>	1.59	2.00	1.81	1.61	1.47	1.36	0.74	1.06	0.90	0.64
<b>Flaring</b>	1.35	1.13	1.19	1.13	0.92	0.72	1.05	0.29	0.08	0.07
<b>Other losses</b>	0.36	0.43	0.30	0.30	0.26	0.16	0.13	0.19	0.00	0.00

Table 4.10.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	3051.85	2731.79	3107.10	2871.31	2660.31	2665.77	2616.72	2393.27	2337.68	1934.45	2271.92	2229.22
<b>Marketed Production</b>	2979.83	2673.44	3072.79	2805.84	2581.28	2567.21	2544.69	2346.70	2278.18	1934.40	2271.87	2229.17

### 4.10.3 Domestic Consumption and Trade

Table 4.10.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Industrial</b>	1.66	1.62	1.62	1.60	1.31	0.89	0.91	0.90	0.93	0.81
<b>Power Generation</b>	3.15	3.15	3.15	3.12	3.04	2.81	2.61	2.51	2.63	2.45
<b>Petrochemical (feedstock)</b>	12.05	11.54	11.50	11.38	11.50	10.58	10.58	10.98	11.63	10.00
<b>Refineries</b>	0.55	0.76	0.71	0.57	0.78	0.78	0.64	0.70	0.26	0.00
<b>Totals</b>	17.40	17.07	16.98	16.67	16.64	15.06	14.74	15.09	15.45	13.27

Table 4.10.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>LNG</b>	Bcm*	18.32	18.96	19.00	18.85	16.90	14.27	14.61	16.67	16.90	13.92
	MMT	14.72	13.47	13.94	13.97	13.93	12.43	10.49	10.74	12.26	10.24
<b>Totals (Bcm)</b>	18.32	18.96	19.00	18.85	16.90	14.27	14.61	16.67	16.90	13.92	

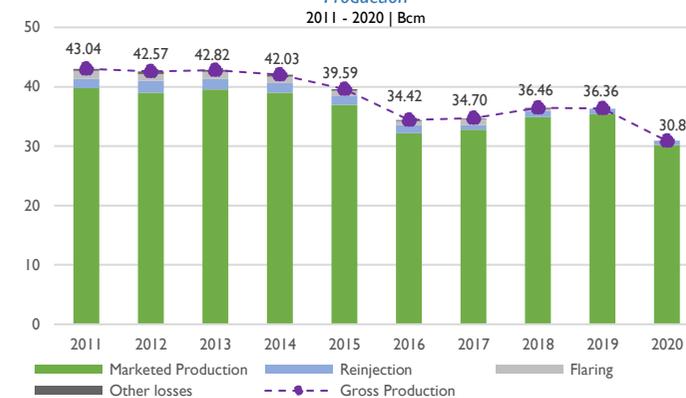
\* Gas equivalent

Table 4.10.3.3 Detailed 2020 Trade: Natural Gas Exports

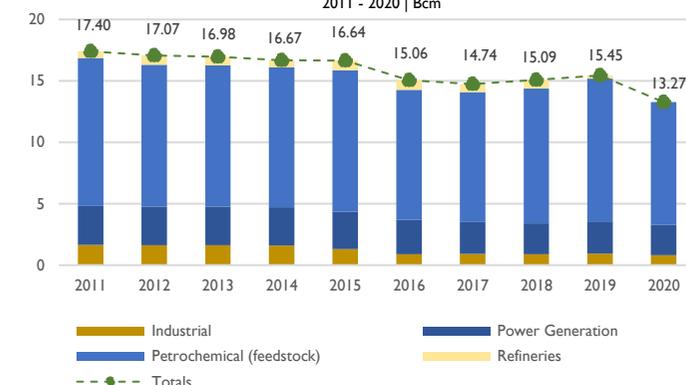
		2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>LNG</b>	MMcm*	1413.16	1266.36	1472.15	1469.21	1229.69	1230.72	1212.01	1176.38	1034.03	740.21	697.48	981.81
	1000MT	1039.09	931.15	1082.46	1080.30	904.18	904.94	891.18	864.99	760.32	544.27	512.85	721.92
<b>Total (MMcm)</b>		1413.16	1266.36	1472.15	1469.21	1229.69	1230.72	1212.01	1176.38	1034.03	740.21	697.48	981.81

\* Gas equivalent

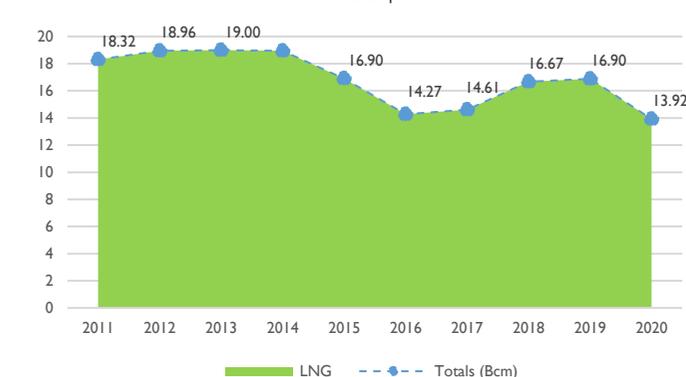
Graph 4.10.2.1. Trinidad and Tobago: Natural Gas Annual Production



Graph 4.10.3.1. Trinidad and Tobago: Natural Gas Annual Domestic Consumption



Graph 4.10.3.2. Trinidad and Tobago: Natural Gas Annual Exports



## 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)
Atlantic LNG	4	14.8	Operational	1999 2002 2003 2005	Atlantic LNG	Atlantic LNG



Bolivarian Republic of

**VENEZUELA**



Population:  
28 435 943



Capital:  
Caracas



Continent:  
South  
America



Currency:  
Venezuelan  
Bolivar



Time Zone:  
Venezuela  
GMT-4

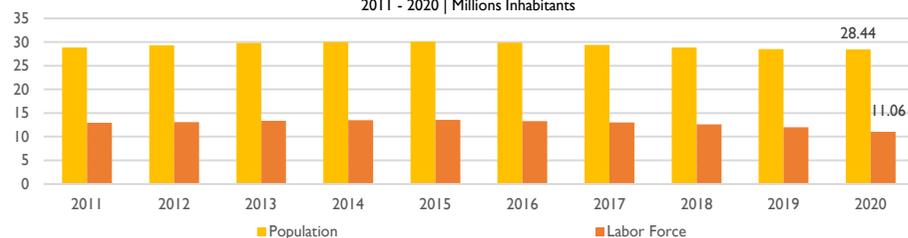
### 4.1.1 Macroeconomics

Table 4.1.1.1 Venezuela Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	28,887,873	29,360,827	29,781,046	30,042,973	30,081,827	29,851,249	29,402,480	28,887,117	28,515,829	28,435,943
<b>Labor Force</b> (Inhabitants)	12,931,113	13,091,253	13,341,572	13,492,626	13,545,018	13,321,835	13,005,670	12,595,517	11,996,396	11,063,628
<b>GDP</b> (Current Billion US\$)	352.54	352.19	258.99	203.82	323.60	279.25	143.84	98.44	63.96	47.26
<b>GDP Growth</b> (annual %)	4.18	5.63	1.34	-3.89	58.77	-13.70	-48.49	-31.57	-35.02	-26.12
<b>GDP per capita</b> (Current US\$)	10,955.54	12,986.22	12,457.77	16,055.65	10,757.16	9,354.68	4,892.14	3,407.64	2,242.96	1,661.81
<b>Exports of Goods and Services</b> (Current Billion US\$)	94.76	99.79	91.88	80.52	37.25	27.61	33.89	33.60	20.68	8.24
<b>Exports of Goods and Services</b> (% of GDP)	26.88	28.33	35.48	39.51	11.51	9.89	23.56	34.14	32.33	17.43
<b>Imports of Goods and Services</b> (Current Billion US\$)	62.33	92.40	109.49	151.45	36.50	17.98	13.36	13.51	7.19	8.41
<b>Imports of Goods and Services</b> (% of GDP)	17.68	26.23	42.28	74.30	11.28	6.44	9.29	13.72	11.24	17.79
<b>Inflation consumer prices</b> (annual %)	256.60	318.90	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
<b>Energy use</b> (kg of oil equivalent per capita)	2,326.16	2,488.41	2,308.94	NA	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	757.13	793.17	753.43	732.68	829.67	872.66	869.65	734.68	615.42	521.36

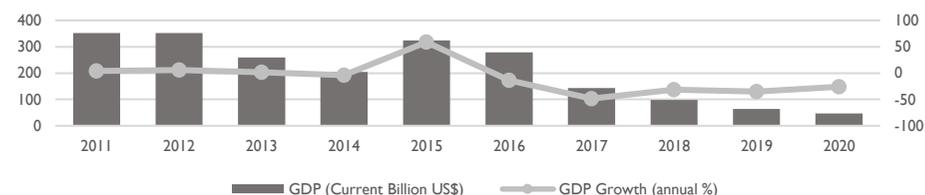
Graph 4.12.1.1. Venezuela: Population and Labor Force

2011 - 2020 | Millions Inhabitants



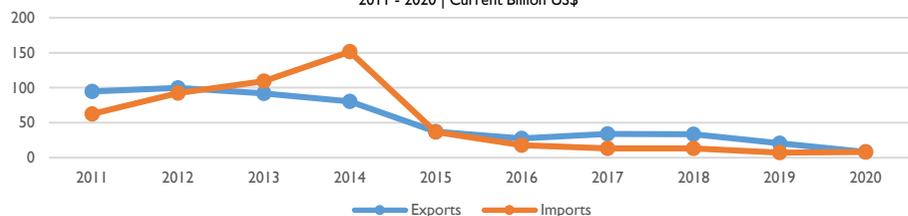
Graph 4.12.1.2. Venezuela: GDP and GDP Growth

2011 - 2020 | Current Billion US\$ and Annual %



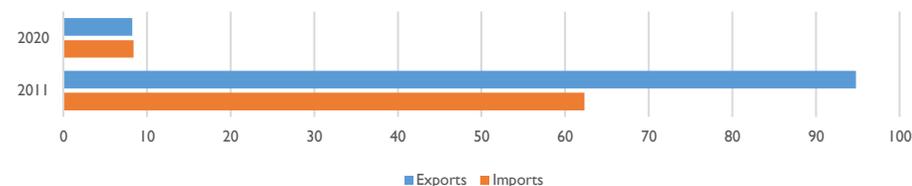
Graph 4.12.1.3. Venezuela: Exports and Imports (Goods and Services)

2011 - 2020 | Current Billion US\$



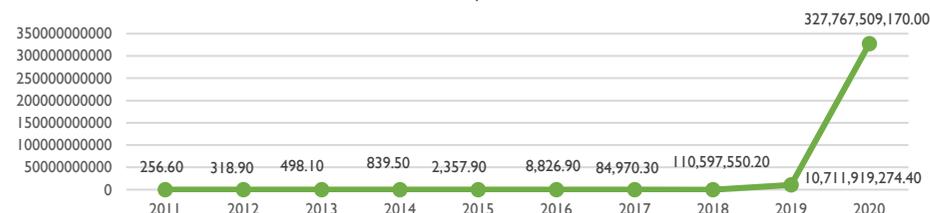
Graph 4.12.1.4. Venezuela: Exports and Imports (Goods and Services)

2011 vs 2020 | Current Billion US\$



Graph 4.12.1.5. Venezuela: Inflation (Consumer Prices)

2011 - 2020 | Annual %



Graph 4.12.1.6. Venezuela: Natural Gas Use

2011 - 2020 | Scm per Capita



## 4.11.2 Reserves and Production

Table 4.11.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	5,528	5,563	5,581	5,617	5,702	5,740	5,708	5,674	5,674	5,674

Table 4.11.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	73.27	75.97	76.44	76.72	80.20	82.16	76.89	67.44	56.21	46.88
<b>Marketed Production</b>	20.77	22.73	21.82	21.88	26.00	28.90	28.29	24.50	20.27	19.40
<b>Reinjection</b>	29.83	29.76	28.77	27.03	25.44	23.42	21.90	15.15	4.45	0.08
<b>Flaring</b>	9.28	11.35	13.73	15.32	16.54	18.82	17.24	20.73	26.18	24.11
<b>Shrinkage</b>	13.39	12.14	12.13	12.49	12.21	11.02	1.51	1.22	0.93	0.47
<b>Other losses</b>	0.00	0.00	0.00	0.00	0.00	0.00	7.96	5.84	4.38	2.81

Table 4.11.2.3 Detailed 2020 Natural Gas Production (MMcm)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Gross Production</b>	4407.14	4100.92	4219.86	4107.84	4388.36	4129.29	3813.31	3638.91	3569.46	3649.06	3349.60	3506.79
<b>Marketed Production</b>	1680.33	1562.84	1512.54	1547.47	1535.77	1252.37	1489.45	1536.47	1625.20	1646.77	1870.74	2140.64

## 4.11.3 Domestic Consumption and Trade

Table 4.11.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Residential</b>	0.16	0.17	0.18	0.17	0.15	0.14	0.15	0.16	0.17	0.20
<b>Industrial</b>	6.81	7.03	6.06	4.95	5.75	4.60	4.69	3.75	3.71	3.96
<b>Power Generation</b>	5.43	6.90	7.15	7.21	9.69	11.31	10.20	8.66	6.82	4.64
<b>Transportation</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03
<b>Petrochemical (feedstock)</b>	4.73	4.43	4.34	4.70	4.41	4.55	4.96	3.18	2.68	2.15
<b>Refineries</b>	4.75	4.77	4.70	4.98	4.96	5.45	5.57	5.47	4.16	3.85
<b>Totals</b>	<b>21.87</b>	<b>23.29</b>	<b>22.44</b>	<b>22.01</b>	<b>24.96</b>	<b>26.05</b>	<b>25.57</b>	<b>21.22</b>	<b>17.55</b>	<b>14.83</b>

Table 4.11.3.2 Historical Trade: Natural Gas Imports (Bcm)

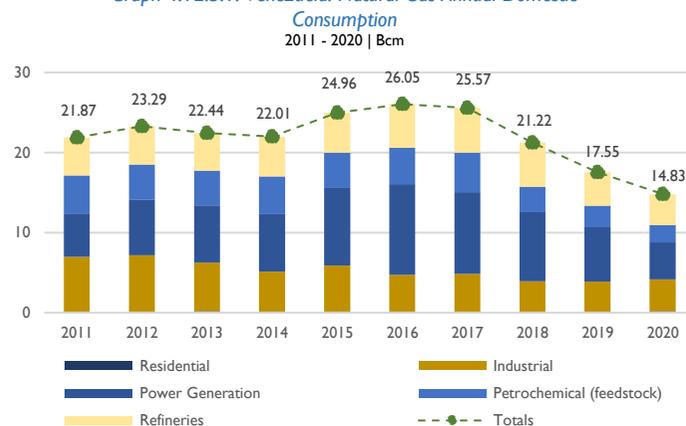
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	1.79	1.89	1.82	1.83	0.95	0.00	0.00	0.00	0.00	0.00
<b>Totals</b>	1.79	1.89	1.82	1.83	0.95	0.00	0.00	0.00	0.00	0.00

\* Gas equivalent

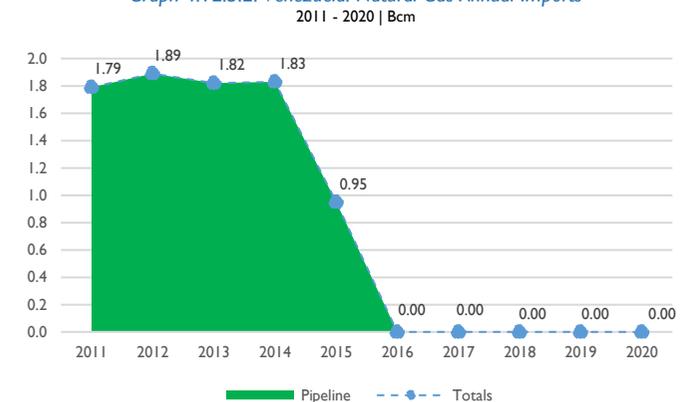
Graph 4.12.2.1. Venezuela: Natural Gas Annual Production



Graph 4.12.3.1. Venezuela: Natural Gas Annual Domestic Consumption



Graph 4.12.3.2. Venezuela: Natural Gas Annual Imports



**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								
Antonio Ricaurte (Trans Caribbean)	Colombia	Venezuela	PDVSA Gas	PDVSA Gas	Operational	2.7	Import/Export	2007	225	26



**Section 5**

**GECF Observer Countries**





Republic of  
**ANGOLA**



Population:  
32 866 268



Capital:  
Luanda



Continent:  
Africa



Currency:  
Angolan kwanza



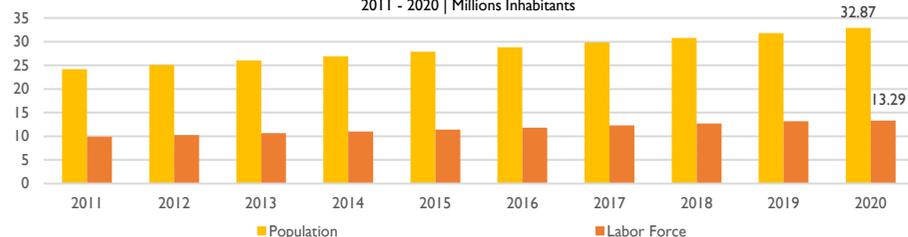
Time Zone:  
West Africa  
GMT+1

## 5.1.1 Macroeconomics

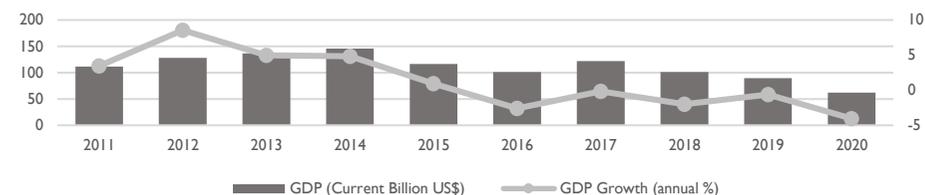
Table 5.1.1.1 Angola Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	24,220,660	25,107,925	26,015,786	26,941,773	27,884,380	28,842,482	29,816,769	30,809,787	31,825,299	32,866,268
<b>Labor Force</b> (Inhabitants)	9,909,983	10,270,960	10,647,313	11,035,035	11,438,809	11,848,867	12,269,167	12,705.661	13,155,275	13,292,663
<b>GDP</b> (Current Billion US\$)	111.79	128.05	136.71	145.71	116.19	101.12	122.12	101.35	89.42	62.31
<b>GDP Growth</b> (annual %)	3.47	8.54	4.95	4.82	0.94	-2.58	-0.15	-2.00	-0.62	-4.04
<b>GDP per capita</b> (Current US\$)	4,615.47	5,100.10	5,254.88	5,408.41	4,166.98	3,506.07	4,095.81	3,289.64	2,809.63	1,895.77
<b>Exports of Goods and Services</b> (Current Billion US\$)	67.82	71.63	69.38	65.13	34.57	28.44	35.42	41.39	35.18	21.98
<b>Exports of Goods and Services</b> (% of GDP)	60.67	55.94	50.75	44.70	29.75	28.12	29.00	40.84	39.34	35.28
<b>Imports of Goods and Services</b> (Current Billion US\$)	43.95	45.92	49.30	50.47	38.50	25.53	28.40	25.89	22.30	17.03
<b>Imports of Goods and Services</b> (% of GDP)	39.31	35.86	36.06	34.64	33.13	25.25	23.25	25.54	24.94	27.33
<b>Inflation consumer prices</b> (annual %)	13.48	10.28	8.78	7.28	9.15	30.70	29.84	19.63	17.08	NA
<b>Energy use</b> (kg of oil equivalent per capita)	521.78	552.36	533.76	544.61	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	31.05	30.27	31.60	23.72	27.61	26.90	26.46	23.17	25.85	26.85

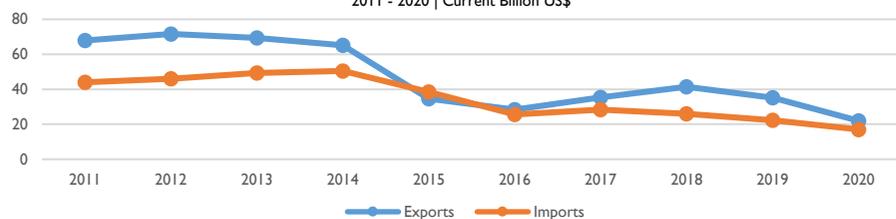
Graph 5.1.1.1. Angola: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



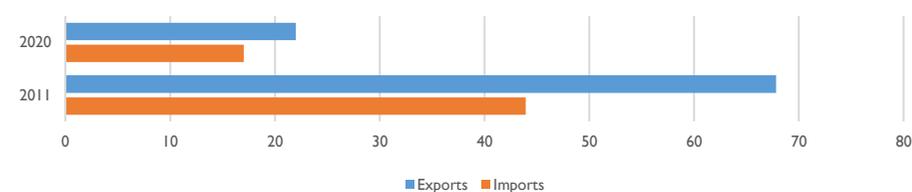
Graph 5.1.1.2. Angola: GDP and GDP Growth  
2011 - 2020 | Current Billion US\$ and Annual %



Graph 5.1.1.3. Angola: Exports and Imports (Goods and Services)  
2011 - 2020 | Current Billion US\$



Graph 5.1.1.4. Angola: Exports and Imports (Goods and Services)  
2011 vs 2020 | Current Billion US\$



Graph 5.1.1.5. Angola: Inflation (Consumer Prices)  
2011 - 2020 | Annual %



Graph 5.1.1.6. Angola: Natural Gas Use  
2011 - 2020 | Scm per Capita



## 5.1.2 Reserves and Production

Table 5.1.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	275	275	275	308	308	440	422	384	343	343

Table 5.1.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	10.73	10.85	10.76	10.44	10.54	11.71	14.98	13.94	12.90	12.99
<b>Marketed Production</b>	0.75	0.76	0.93	0.73	0.77	1.71	5.83	6.14	6.80	7.29
<b>Reinjection</b>	2.60	2.63	2.58	2.53	2.55	2.50	2.60	2.80	2.40	2.40
<b>Flaring</b>	7.18	7.26	7.00	6.99	7.00	7.20	6.10	4.20	2.80	2.30
<b>Other Losses</b>	0.20	0.20	0.25	0.19	0.22	0.30	0.45	0.80	0.90	1.00

## 5.1.3 Domestic Consumption and Trade

Table 5.1.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	0.75	0.76	0.82	0.64	0.77	0.78	0.79	0.71	0.82	0.88

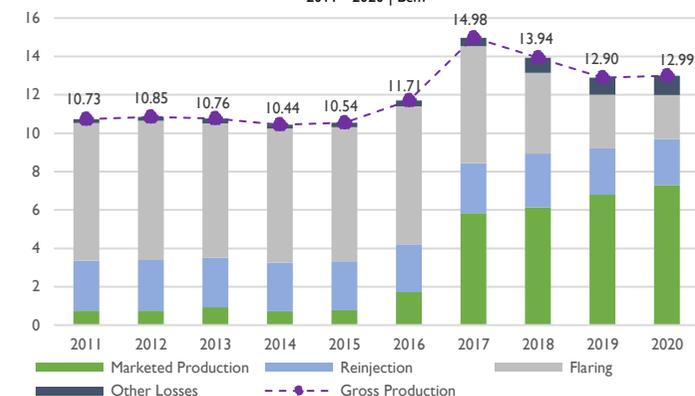
Table 5.1.3.2 Historical Trade: Natural Gas Exports

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>LNG</b>	Bcm*	0.00	0.00	0.47	0.44	0.00	0.93	4.98	5.25	5.80	6.25
	MMT	0.00	0.00	0.00	0.34	0.32	0.00	0.68	3.66	3.86	4.59
<b>Totals (Bcm)</b>		0.00	0.00	0.00	0.47	0.44	0.00	0.93	4.98	5.25	6.25

\* Gas equivalent

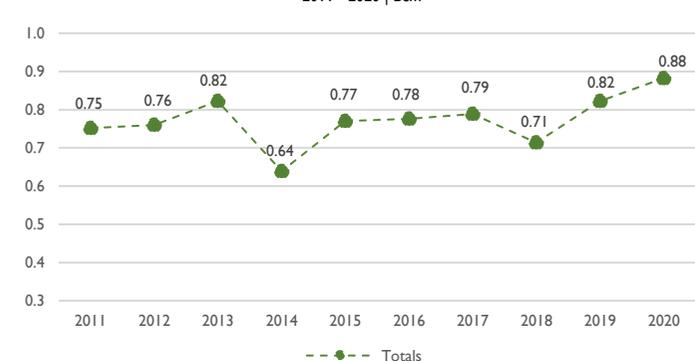
Graph 5.1.2.1. Angola: Natural Gas Annual Production

2011 - 2020 | Bcm



Graph 5.1.3.1. Angola: Natural Gas Annual Domestic Consumption

2011 - 2020 | Bcm



Graph 5.1.3.2. Angola: Natural Gas Trade and Marketed Production

2011 - 2020 | Bcm



## 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)
Angola LNG	1	5.2	Operational	2013	Angola LNG	Angola LNG



Republic of

# AZERBAIJAN



Population:  
10 110 116



Capital:  
Baku



Continent:  
Euroasia



Currency:  
Azerbaijani  
Manat



Time Zone:  
Azerbaijan  
GMT+4

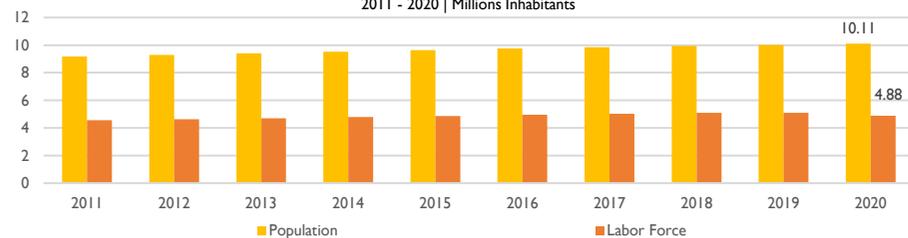
## 5.2.1 Macroeconomics

Table 5.2.1.1 Azerbaijan Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	9,173,082	9,295,784	9,416,801	9,535,079	9,649,341	9,757,812	9,854,033	9,939,771	10,024,283	10,110,116
<b>Labor Force</b> (Inhabitants)	4,554,332	4,627,324	4,702,401	4,791,070	4,876,105	4,969,576	5,033,711	5,091,129	5,103,475	4,881,649
<b>GDP</b> (Current Billion US\$)	65.95	69.68	74.16	75.24	53.07	37.87	40.87	47.11	48.17	42.61
<b>GDP Growth</b> (annual %)	-1.57	2.20	5.84	2.80	1.05	-3.06	0.15	1.50	2.48	-4.31
<b>GDP per capita</b> (Current US\$)	7,189.69	7,496.29	7,875.76	7,891.31	5,500.31	3,880.74	4,147.09	4,739.84	4,805.75	4,214.31
<b>Exports of Goods and Services</b> (Current Billion US\$)	37.21	36.91	35.91	32.56	20.06	17.58	19.84	25.48	23.63	15.21
<b>Exports of Goods and Services</b> (% of GDP)	56.43	52.97	48.42	43.27	37.79	46.43	48.55	54.09	49.05	35.70
<b>Imports of Goods and Services</b> (Current Billion US\$)	15.88	17.62	19.48	19.72	18.47	16.53	17.10	17.71	17.71	15.54
<b>Imports of Goods and Services</b> (% of GDP)	24.08	25.29	26.26	26.21	34.81	43.65	41.85	37.58	36.77	36.47
<b>Inflation consumer prices</b> (annual %)	7.86	1.07	2.42	1.37	4.03	12.44	12.94	2.27	2.61	2.76
<b>Energy use</b> (kg of oil equivalent per capita)	1,369.35	1,472.90	1,474.00	1,502.08	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	885.31	967.49	991.41	988.80	1,041.19	1,139.39	1,101.31	1,055.87	1,075.95	1,165.17

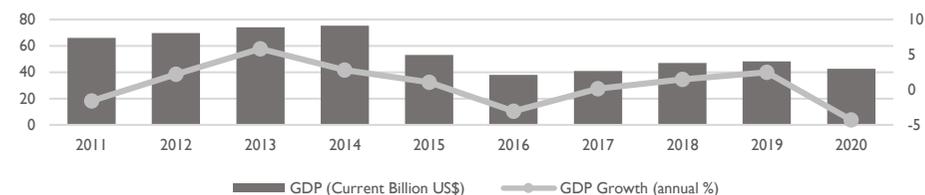
Graph 5.2.1.1. Azerbaijan: Population and Labor Force

2011 - 2020 | Millions Inhabitants



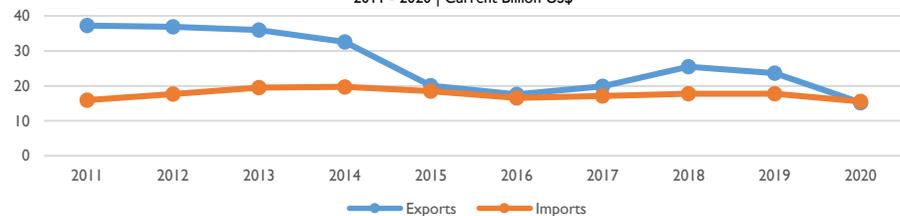
Graph 5.2.1.2. Azerbaijan: GDP and GDP Growth

2011 - 2020 | Current Billion US\$ and Annual %



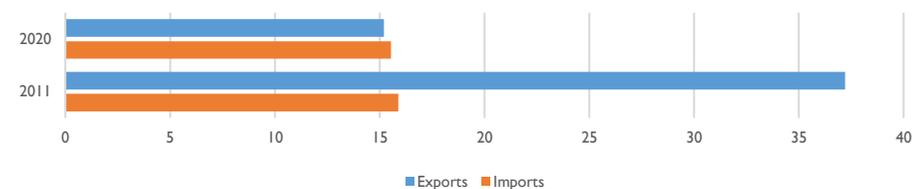
Graph 5.2.1.3. Azerbaijan: Exports and Imports (Goods and Services)

2011 - 2020 | Current Billion US\$



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

2011 vs 2020 | Current Billion US\$



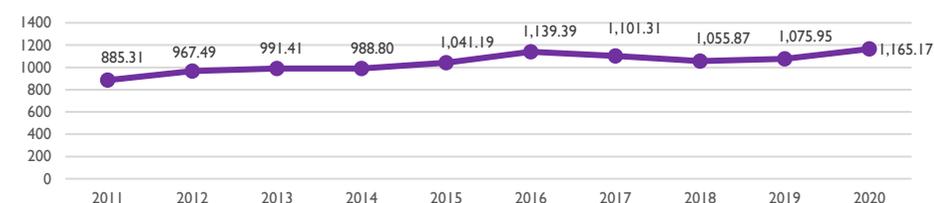
Graph 5.2.1.5. Azerbaijan: Inflation (Consumer Prices)

2011 - 2020 | Annual %



Graph 5.2.1.6. Azerbaijan: Natural Gas Use

2011 - 2020 | Scm per Capita



## 5.2.2 Reserves and Production

Table 5.2.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	1,317	1,308	1,300	1,292	1,284	1,277	1,270	1,435	1,917	1,917

Table 5.2.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	24.58	26.40	27.85	28.22	27.83	27.91	27.07	28.41	33.16	35.34
<b>Marketed Production</b>	15.95	16.81	17.45	18.38	18.78	18.28	17.76	19.05	22.84	25.14
<b>Reinjection</b>	5.40	6.25	7.70	7.35	7.00	7.45	7.30	7.60	7.99	7.60
<b>Flaring</b>	1.10	0.75	0.65	0.60	0.31	0.29	0.24	0.29	0.30	0.15
<b>Other Losses</b>	2.21	2.65	2.12	1.98	1.85	2.00	1.80	1.90	2.03	2.45

## 5.2.3 Domestic Consumption and Trade

Table 5.2.3.1 Domestic Gas Consumption (Bcm)

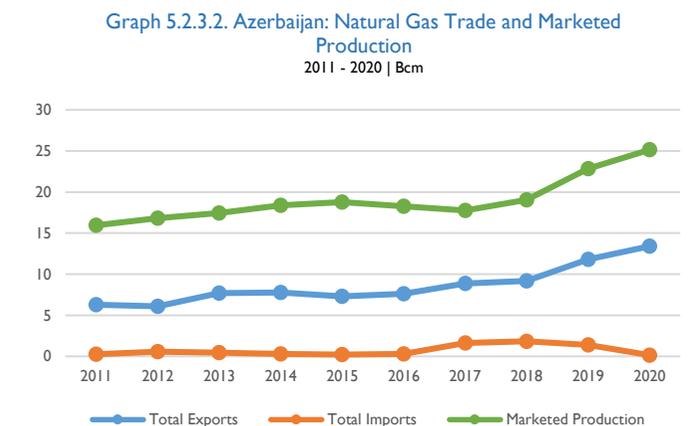
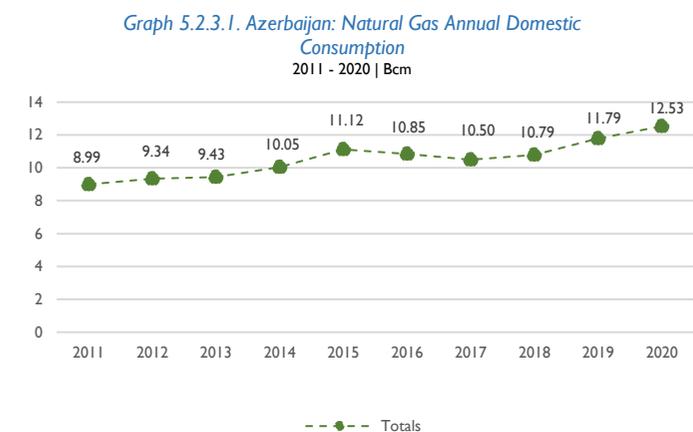
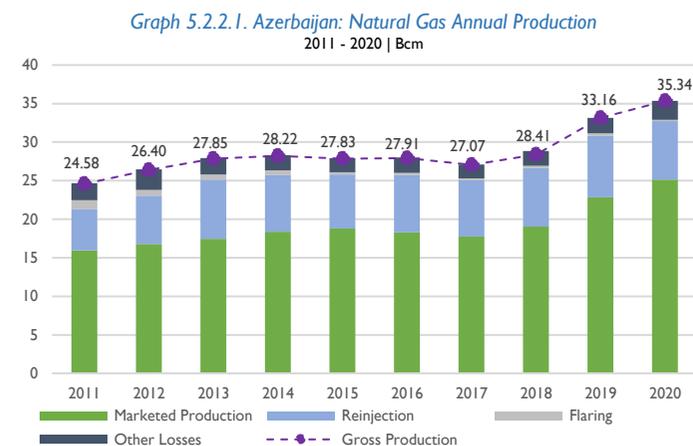
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	8.99	9.34	9.43	10.05	11.12	10.85	10.50	10.79	11.79	12.53

Table 5.2.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	6.29	6.09	7.68	7.77	7.32	7.62	8.86	9.19	11.81	13.40
<b>Totals</b>	6.29	6.09	7.68	7.77	7.32	7.62	8.86	9.19	11.81	13.40

Table 5.2.3.3 Historical Trade: Natural Gas Imports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	0.25	0.55	0.45	0.31	0.21	0.30	1.63	1.84	1.40	0.15
<b>Totals</b>	0.25	0.55	0.45	0.31	0.21	0.30	1.63	1.84	1.40	0.15



## 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								
Southern Gas Corridor	Azerbaijan	Georgia, Turke, Greece, Italy	-	BP, TPAO, SOCAR, Petronas, Lukoil, Naftiran, Intertrade	BP	Operational	16.0	Export	2006	692	42
Jolfa-Nakhchivan	Azerbaijan	Iran	-	SOCAR, NIGC	SOCAR, NIGC	Operational	10.0	Swap	2005	627	40
Mozdok–Makhachkala– Kazi Magomed	Russia	Azerbaijan	-	SOCAR, GAZPROM	SOCAR, GAZPROM	Operational	13.0	-	2010	680	48
Trans-Caspian	Azerbaijan	Turkmenistan	-	NA	NA	Proposed	30.0	Export	NA	300	NA



Republic of  
**IRAQ**



Population:  
40 222 503



Capital:  
Baghdad



Continent:  
Middle East



Currency:  
Iraqi Dinar



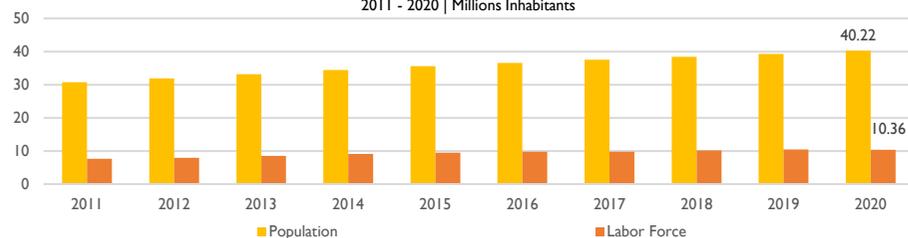
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### 5.3.1 Macroeconomics

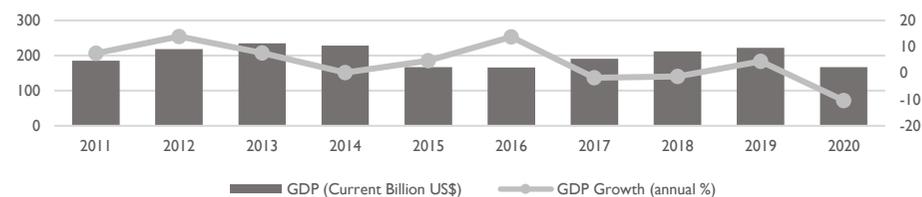
Table 5.3.1.1 Iraq Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	30,725,305	31,890,012	33,157,061	34,411,949	35,572,269	36,610,632	37,552,789	38,433,604	39,309,789	40,222,503
<b>Labor Force</b> (Inhabitants)	7,599,635	7,963,675	8,511,018	9,083,658	9,492,501	9,814,443	9,803,744	10,163,569	10,469,143	10,356,947
<b>GDP</b> (Current Billion US\$)	185.75	218.00	234.64	228.42	166.77	166.60	190.64	212.27	222.43	167.22
<b>GDP Growth</b> (annual %)	7.55	13.94	7.63	0.20	4.72	13.79	-1.75	-1.21	4.45	-10.37
<b>GDP per capita</b> (Current US\$)	6,045.49	6,836.07	7,076.55	6,637.68	4,688.32	4,550.66	5,076.69	5,523.08	5,658.49	4,157.48
<b>Exports of Goods and Services</b> (Current Billion US\$)	82.51	97.03	93.07	88.95	57.56	46.83	63.50	92.77	88.90	NA
<b>Exports of Goods and Services</b> (% of GDP)	44.42	44.51	39.66	38.94	34.51	28.11	33.31	43.70	39.97	NA
<b>Imports of Goods and Services</b> (Current Billion US\$)	51.55	63.44	65.10	68.62	58.50	44.12	48.42	56.84	72.28	NA
<b>Imports of Goods and Services</b> (% of GDP)	27.75	29.10	27.75	30.04	35.08	26.48	25.40	26.78	32.50	NA
<b>Inflation consumer prices</b> (annual %)	5.80	6.09	1.88	2.24	1.39	0.56	0.18	0.37	-0.20	NA
<b>Energy use</b> (kg of oil equivalent per capita)	1,335.74	1,438.18	1,488.56	1,437.90	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	235.07	217.28	204.81	197.98	195.35	219.79	284.63	355.25	443.00	449.54

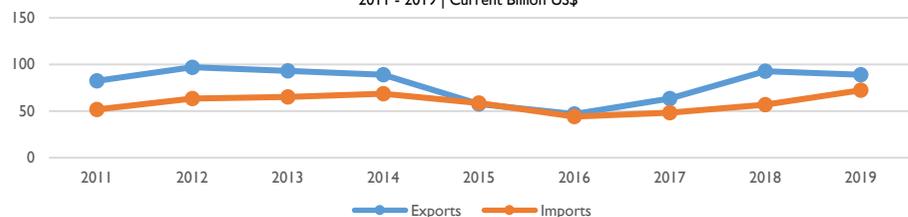
Graph 5.3.1.1. Iraq: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



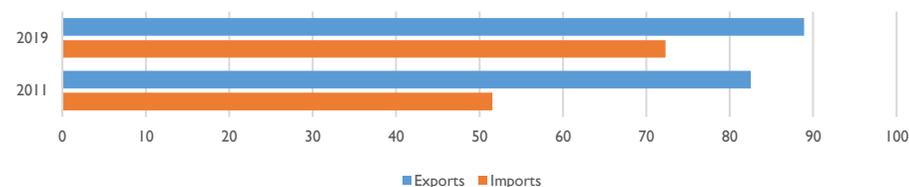
Graph 5.3.1.2. Iraq: GDP and GDP Growth  
2011 - 2020 | Current Billion US\$ and Annual %



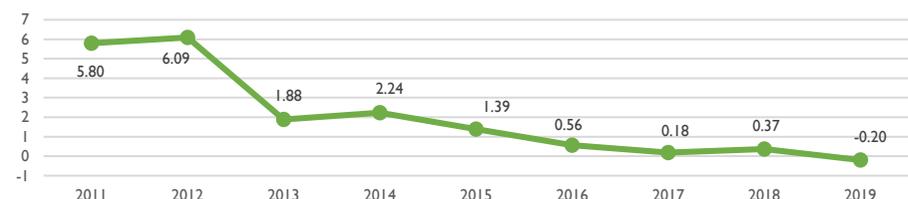
Graph 5.3.1.3. Iraq: Exports and Imports (Goods and Services)  
2011 - 2019 | Current Billion US\$



Graph 5.3.1.4. Iraq: Exports and Imports (Goods and Services)  
2011 vs 2019 | Current Billion US\$



Graph 5.3.1.5. Iraq: Inflation (Consumer Prices)  
2011 - 2019 | Annual %



Graph 5.3.1.6. Iraq: Natural Gas Use  
2011 - 2020 | Scm per Capita



### 5.3.2 Reserves and Production

Table 5.3.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	3,158	3,158	3,158	3,158	3,158	3,820	3,744	3,729	3,714	3,714

Table 5.3.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	24.13	26.22	27.30	28.50	29.78	33.82	34.65	35.80	36.74	35.54
<b>Marketed Production</b>	6.32	6.36	7.09	7.55	7.32	9.92	10.14	10.60	11.16	10.86
<b>Reinjection</b>	0.97	0.88	0.34	0.15	0.16	0.15	0.20	0.20	0.20	0.20
<b>Flaring</b>	9.61	11.98	12.43	12.87	14.61	16.00	16.50	16.50	16.70	16.20
<b>Other Losses</b>	7.23	7.00	7.44	7.93	7.69	7.75	7.80	8.50	8.68	8.28

### 5.3.3 Domestic Consumption and Trade

Table 5.3.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	7.22	6.93	6.79	6.81	6.95	8.05	10.69	13.65	17.41	18.08

Table 5.3.3.2 Historical Trade: Natural Gas Imports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	0.00	0.00	0.00	0.00	0.00	0.00	1.45	4.19	6.11	7.22
<b>Totals</b>	0.00	0.00	0.00	0.00	0.00	0.00	1.45	4.19	6.11	7.22

Graph 5.3.2.1. Iraq: Natural Gas Annual Production 2011 - 2020 | Bcm



Graph 5.3.3.1. Iraq: Natural Gas Annual Domestic Consumption 2011 - 2020 | Bcm



Graph 5.3.3.2. Iraq: Natural Gas Trade and Marketed Production 2011 - 2020 | Bcm



### 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								
Asaluye-Baghdad	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	12.8	Import	2017	230	NA
Asaluye-Basrah	Iran	Iraq	-	NIOC, INOC	NIOC, INOC	Operational	NA	Import	NA	NA	NA



# MALAYSIA

330 803 km<sup>2</sup>



Population:  
32 365 998



Capital:  
Kuala Lumpur



Continent:  
Asia



Currency:  
Ringgit Malaysia  
RM



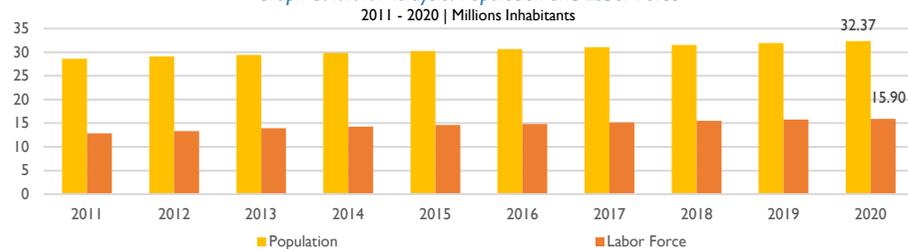
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### 5.4.I Macroeconomics

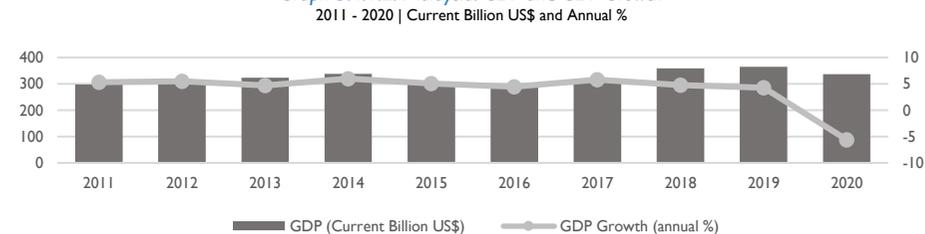
Table 5.4.1.1 Malaysia Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	28,650,962	29,068,189	29,468,923	29,866,606	30,270,965	30,684,652	31,104,655	31,528,033	31,949,789	32,365,998
<b>Labor Force</b> (Inhabitants)	12,826,886	13,338,673	13,944,247	14,286,287	14,617,015	14,858,273	15,154,996	15,523,126	15,780,716	15,904,215
<b>GDP</b> (Current Billion US\$)	297.95	314.44	323.28	338.06	301.35	301.26	319.11	358.72	364.68	336.66
<b>GDP Growth</b> (annual %)	5.29	5.47	4.69	6.01	5.09	4.45	5.81	4.77	4.30	-5.59
<b>GDP per capita</b> (Current US\$)	10,399.37	10,817.43	10,970.10	11,319.06	9,955.24	9,817.79	10,259.30	11,377.65	11,414.20	10,401.79
<b>Exports of Goods and Services</b> (Current Billion US\$)	254.02	249.35	244.49	249.47	209.29	201.16	223.42	245.97	237.85	206.95
<b>Exports of Goods and Services</b> (% of GDP)	85.26	79.30	75.63	73.79	69.45	66.78	70.01	68.57	65.22	61.47
<b>Imports of Goods and Services</b> (Current Billion US\$)	207.62	215.53	216.89	218.11	186.60	181.13	201.50	221.90	210.71	185.27
<b>Imports of Goods and Services</b> (% of GDP)	69.68	68.54	67.09	64.52	61.92	60.12	63.14	61.86	57.78	55.03
<b>Inflation consumer prices</b> (annual %)	3.17	1.66	2.11	3.14	2.10	2.09	3.87	0.88	0.66	-1.14
<b>Energy use</b> (kg of oil equivalent per capita)	2,670.65	2,678.53	2,979.64	3,003.45	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	1,086.83	1,085.39	1,147.05	1,195.90	1,081.56	1,076.74	1,079.40	1,118.25	1,152.96	976.02

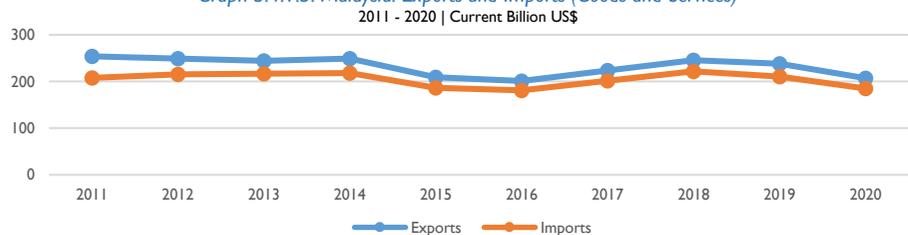
Graph 5.4.1.1. Malaysia: Population and Labor Force



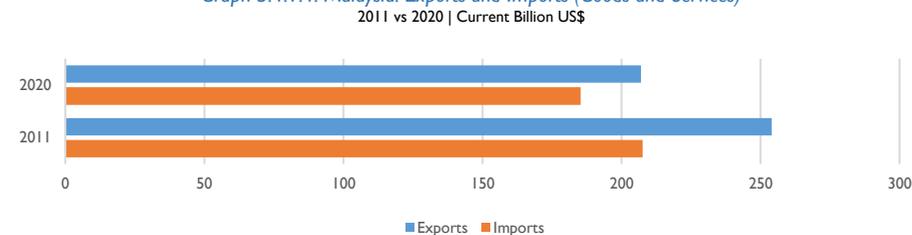
Graph 5.4.1.2. Malaysia: GDP and GDP Growth



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



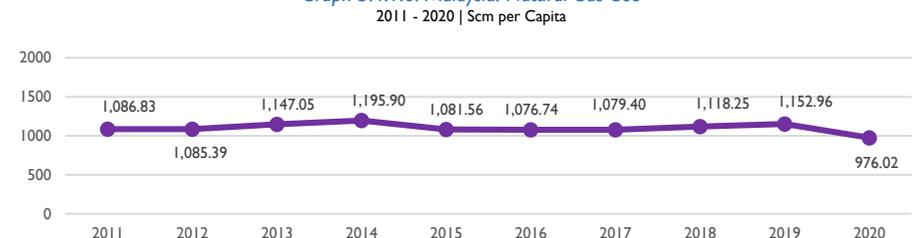
Graph 5.4.1.4. Malaysia: Exports and Imports (Goods and Services)



Graph 5.4.1.5. Malaysia: Inflation (Consumer Prices)



Graph 5.4.1.6. Malaysia: Natural Gas Use



### 5.4.2 Reserves and Production

Table 5.4.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	2,547	2,607	2,782	2,849	2,842	2,470	2,346	2,290	2,217	2,179

Table 5.4.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	76.42	76.98	80.86	81.53	78.99	80.19	82.95	80.23	82.15	76.27
<b>Marketed Production</b>	61.87	61.83	65.71	66.28	64.19	65.09	67.70	66.53	68.32	63.22
<b>Reinjection</b>	8.15	8.65	8.70	8.60	8.40	8.50	8.35	7.30	7.20	7.00
<b>Flaring</b>	1.30	1.30	1.25	1.50	1.50	1.50	1.40	1.10	1.20	1.00
<b>Other Losses</b>	5.10	5.20	5.20	5.15	4.90	5.10	5.50	5.30	5.43	5.05

### 5.4.3 Domestic Consumption and Trade

Table 5.4.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	31.14	31.55	33.80	35.72	32.74	33.04	33.57	35.26	36.84	31.59

Table 5.4.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>Pipeline</b>	0.03	1.64	2.30	1.84	1.56	1.70	1.50	1.50	1.47	1.70	
<b>LNG</b>	Bcm*	31.28	30.98	33.36	33.19	32.94	32.47	35.26	32.15	34.09	32.51
	MMT	23.00	22.78	24.53	24.40	24.22	23.87	25.93	23.64	25.06	23.91
<b>Totals (Bcm)</b>	31.31	32.62	35.66	35.03	34.50	34.17	36.76	33.65	35.56	34.21	

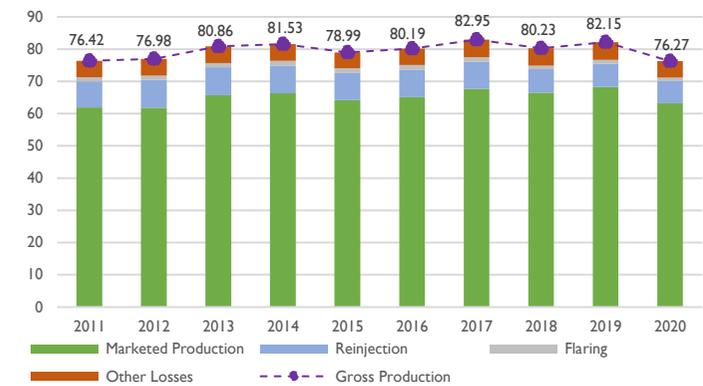
\* Gas equivalent

Table 5.4.3.3 Historical Trade: Natural Gas Imports

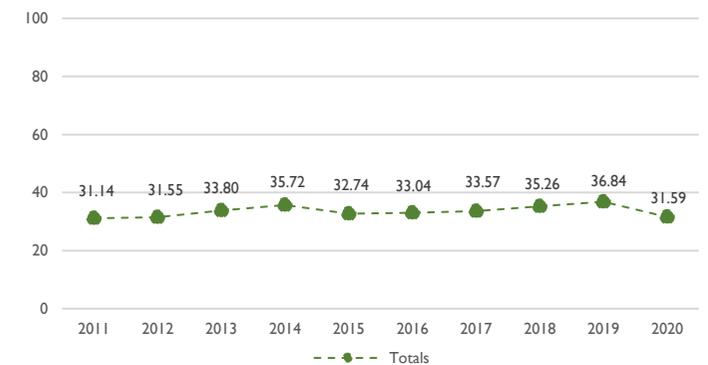
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	1.99	2.34	1.75	2.30	1.10	0.57	0.71	0.61	0.62	0.41
<b>LNG</b>	Bcm*	0.00	0.00	2.00	2.16	1.94	1.55	1.93	3.45	3.53
	MMT	0.00	0.00	1.47	1.59	1.43	1.14	1.42	2.54	2.60
<b>Totals (Bcm)</b>	1.99	2.34	3.75	4.46	3.04	2.12	2.64	2.38	4.07	3.94

\* Gas equivalent

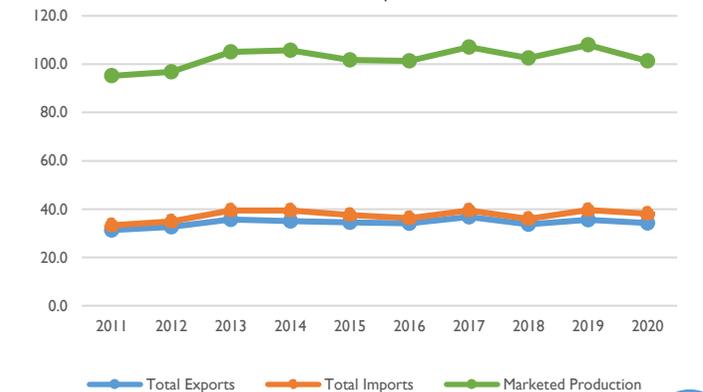
Graph 5.4.2.1. Malaysia: Natural Gas Annual Production 2011 - 2020 | Bcm



Graph 5.4.3.1. Malaysia: Natural Gas Annual Domestic Consumption 2011 - 2020 | Bcm



Graph 5.4.3.2. Malaysia: Natural Gas Trade and Marketed Production 2011 - 2020 | 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

Table 5.4.4.2 LNG Carrier Fleet

Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)	Ship Name	Owner(s)	Delivered Year	Size (1000 Scm)
Aman Sendai	MISC	1997	18.80	Seri Anggun	MISC	2006	145.00
LNG Portovenere	MISC	1997	60.60	Seri Ayu	MISC	2007	145.00
LNG Lerici	MISC	1998	60.60	Seri Bakti	MISC	2007	152.60
Puteri Intan	MISC	1994	130.00	Seri Begawan	MISC	2007	152.30
Puteri Delima	MISC	1995	130.00	Seri Bijaksana	MISC	2008	152.30
Puteri Nilam	MISC	1995	130.00	Seri Balhaf	MISC	2009	154.50
Puteri Zamrud	MISC	1996	130.00	Seri Balqis	MISC	2009	154.50
Puteri Firus	MISC	1997	130.00	Seri Camellia	MISC	2016	150.00
Puteri Delima Satu	MISC	2002	137.10	Seri Cempaka	MISC	2017	150.20
Puteri Intan Satu	MISC	2002	137.10	Seri Cenderawasih	MISC	2017	150.00
Puteri Nilam Satu	MISC	2003	137.10	Seri Camar	MISC	2018	150.20
Puteri Firus Satu	MISC	2004	137.10	Seri Cemara	MISC	2018	150.20
Puteri Zamrud Satu	MISC	2004	137.10	Hull No.8030	MISC (JV)	2021	142.00
Puteri Mutiara Satu	MISC	2005	137.10	Hull No.8031	MISC (JV)	2021	142.00
Seri Alam	MISC	2005	145.00	Hull No.2364	MISC	2023	148.10
Seri Amanah	MISC	2006	145.00	Hull No.2365	MISC	2023	148.10
Seri Angkasa	MISC	2006	145.00				
<b>Sub Totals</b>			<b>2047.60</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

Table 5.5.4.4 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Melaka (FSRU)	3.8	Operational	2013	NA	NA
Pengerang (RGT 2)	3.5	Operational	2017	NA	NA



Kingdom of  
**NORWAY**

385 178 km<sup>2</sup>



Population:  
5 379 475



Capital:  
Oslo



Continent:  
Europe



Currency:  
Norwegian  
Krone



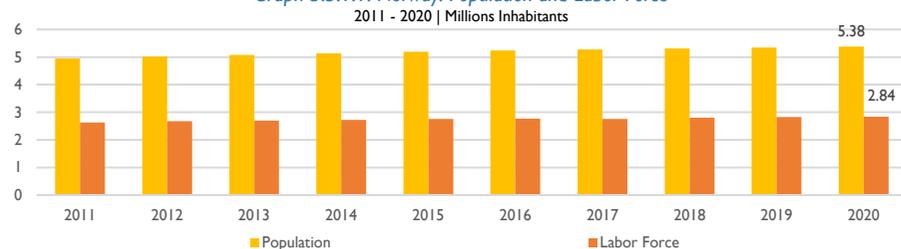
Time Zone:  
Central European  
GMT+2

## 5.5.1 Macroeconomics

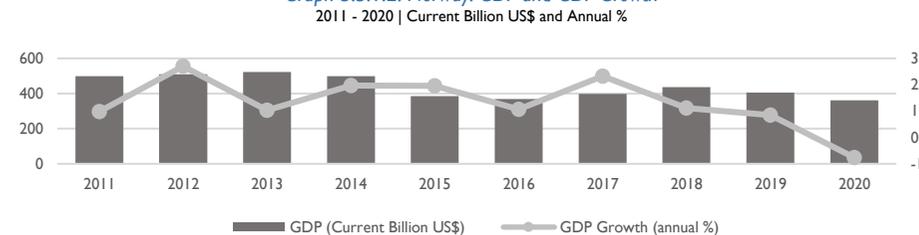
Table 5.5.1.1 Norway Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	4,953,088	5,018,573	5,079,623	5,137,232	5,188,607	5,234,519	5,276,968	5,311,916	5,347,896	5,379,475
<b>Labor Force</b> (Inhabitants)	2,626,211	2,671,168	2,697,989	2,722,790	2,762,116	2,769,635	2,763,116	2,799,958	2,829,759	2,836,708
<b>GDP</b> (Current Billion US\$)	498.28	509.51	522.76	498.41	385.80	368.83	398.39	437.00	405.51	362.01
<b>GDP Growth</b> (annual %)	0.98	2.70	1.03	1.97	1.97	1.07	2.32	1.12	0.85	-0.76
<b>GDP per capita</b> (Current US\$)	100,600.56	101,524.14	102,913.45	97,019.18	74,355.52	70,460.56	75,496.75	82,267.81	75,826.08	67,294.48
<b>Exports of Goods and Services</b> (Current Billion US\$)	205.66	207.28	204.91	194.36	145.84	130.79	144.75	165.94	147.30	117.13
<b>Exports of Goods and Services</b> (% of GDP)	41.27	40.68	39.20	39.00	37.80	35.46	36.33	37.97	36.32	32.36
<b>Imports of Goods and Services</b> (Current Billion US\$)	141.51	140.29	148.20	147.86	123.68	123.48	130.80	140.88	140.78	119.26
<b>Imports of Goods and Services</b> (% of GDP)	28.40	27.53	28.35	29.67	32.06	33.48	32.83	32.24	34.72	32.94
<b>Inflation consumer prices</b> (annual %)	1.28	0.70	2.12	2.04	2.17	3.55	1.88	2.76	2.17	1.29
<b>Energy use</b> (kg of oil equivalent per capita)	5,649.70	5,906.14	6,415.99	5,595.65	5,817.64	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	808.75	774.76	763.31	810.70	872.50	861.40	896.75	856.63	877.18	837.19

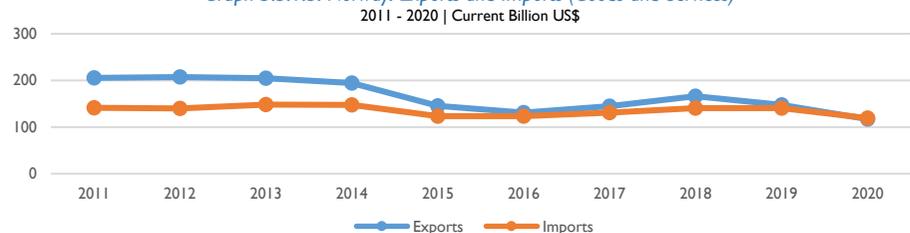
Graph 5.5.1.1. Norway: Population and Labor Force



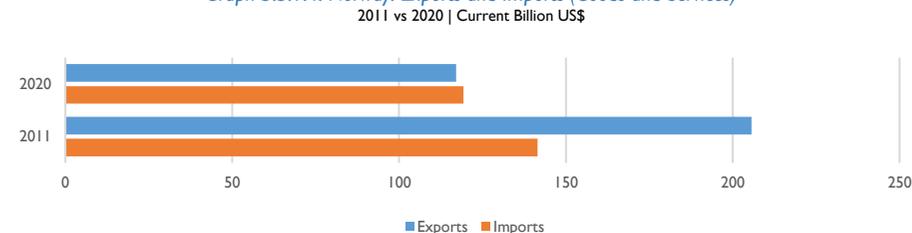
Graph 5.5.1.2. Norway: GDP and GDP Growth



Graph 5.5.1.3. Norway: Exports and Imports (Goods and Services)



Graph 5.5.1.4. Norway: Exports and Imports (Goods and Services)



Graph 5.5.1.5. Norway: Inflation (Consumer Prices)



Graph 5.5.1.6. Norway: Natural Gas Use



## 5.5.2 Reserves and Production

Table 5.5.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	2,685	2,687	2,654	2,547	2,461	2,388	2,334	2,226	2,165	2,095

Table 5.5.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	134.98	148.00	144.81	152.71	162.74	161.90	164.56	159.90	152.02	147.62
<b>Marketed Production</b>	101.49	114.52	108.76	111.18	120.71	120.33	127.74	126.42	119.05	116.20
<b>Reinjection</b>	29.50	29.30	32.00	37.50	37.60	37.20	32.30	29.10	28.60	27.30
<b>Flaring</b>	0.50	0.49	0.53	0.46	0.45	0.48	0.40	0.34	0.32	0.20
<b>Other Losses</b>	3.50	3.69	3.52	3.57	3.98	3.88	4.11	4.03	4.05	3.92

## 5.5.3 Domestic Consumption and Trade

Table 5.5.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	4.01	3.89	3.88	4.16	4.53	4.51	4.73	4.55	4.69	4.50

Table 5.5.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	95.54	108.28	102.94	101.47	108.79	108.48	117.88	113.19	106.84	107.98
<b>LNG</b>	Bcm*	4.40	4.80	3.89	4.84	5.63	5.22	6.75	6.41	4.29
	MMT	3.24	3.53	2.86	3.56	4.14	4.38	3.84	4.96	3.15
<b>Totals (Bcm)</b>	99.94	113.08	106.83	106.31	114.42	114.43	123.09	119.95	113.25	112.27

\* Gas equivalent

Table 5.5.3.3 Historical Trade: Natural Gas Imports

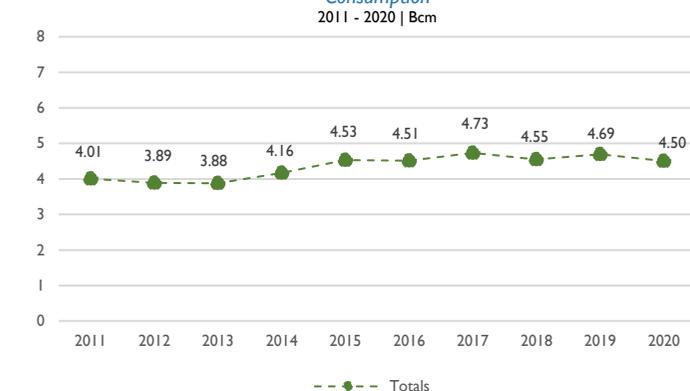
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>LNG</b>	Bcm*	0.001	0.001	0.000	0.000	0.006	0.004	0.000	0.000	0.000
	MMT	0.001	0.001	0.000	0.000	0.004	0.003	0.000	0.000	0.000
<b>Totals (Bcm)</b>	0.001	0.001	0.000	0.000	0.006	0.004	0.000	0.000	0.000	0.000

\* Gas equivalent

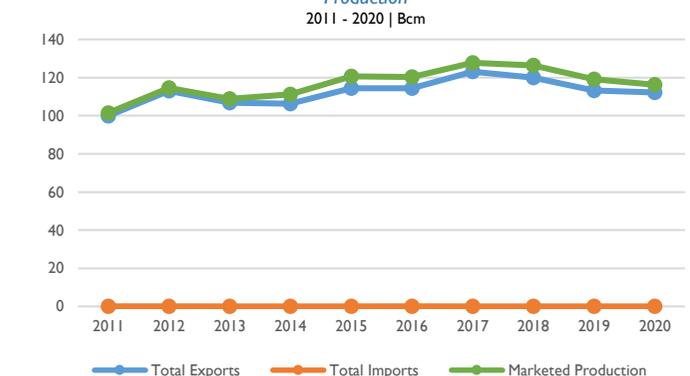
Graph 5.5.2.1. Norway: Natural Gas Annual Production



Graph 5.5.3.1. Norway: Natural Gas Annual Domestic Consumption



Graph 5.5.3.2. Norway: Natural Gas Trade and Marketed Production



## 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	Length (km)	Diameter (Inches)
	From	To	Via								
Norpipe	Norway	Germany	-	Gassco AS	Gassco AS	Operational	11.7	Export	1977	440	36
Vesterled	Norway	UK	-	Gassco AS	Gassco AS	Operational	14.2	Export	1978	360	32
Zeepipe I	Norway	Belgium	-	Gassco AS	Gassco AS	Operational	15.3	Export	1993	808	40
Europipe I	Norway	Germany	-	Gassco AS	Gassco AS	Operational	16.8	Export	1995	620	40
Franpipe	Norway	France	-	Gassco AS	Gassco AS	Operational	20.1	Export	1998	840	42
Europipe II	Norway	Germany	-	Gassco AS	Gassco AS	Operational	26.0	Export	1999	660	42
Langeled	Norway	UK	-	Gassco AS	Gassco AS	Operational	26.3	Export	2006	536	44
Baltic Pipeline	<b>Norway</b>	Denmark, Poland	-	NA	NA	Under Construction	10.0	Export	2022	275	42

Table 5.5.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Snohvit LNG	1	4.3	Offline	2007	Snohvit LNG Consortium	Snohvit LNG Consortium



Sultanate of  
**OMAN**

309 500 km<sup>2</sup>



Population:  
5 106 622



Capital:  
Muscat



Continent:  
Middle East



Currency:  
Omani Rial



Time Zone:  
Gulf  
GMT+4

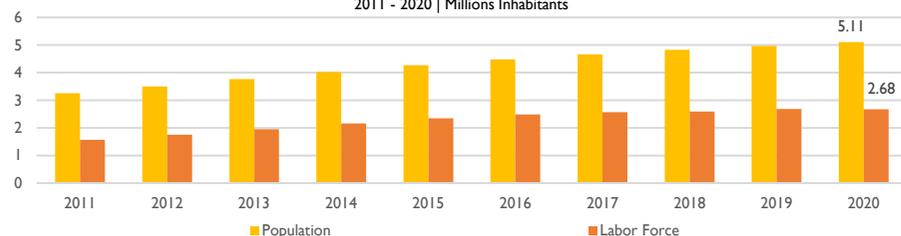
## 5.6.1 Macroeconomics

Table 5.6.1.1 Oman Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	3,251,102	3,498,031	3,764,805	4,027,255	4,267,341	4,479,217	4,665,926	4,829,476	4,974,992	5,106,622
<b>Labor Force</b> (Inhabitants)	1,562,423	1,751,255	1,955,980	2,159,713	2,349,278	2,483,034	2,567,370	2,590,634	2,680,161	2,678,187
<b>GDP</b> (Current Billion US\$)	67.87	76.51	78.56	80.69	68.42	65.44	70.59	79.79	76.33	NA
<b>GDP Growth</b> (annual %)	2.66	9.05	5.10	1.46	4.63	5.10	0.35	0.92	-0.83	NA
<b>GDP per capita</b> (Current US\$)	20,876.59	21,872.61	20,865.79	20,035.22	16,033.46	14,609.98	15,127.89	16,521.21	15,343.04	NA
<b>Exports of Goods and Services</b> (Current Billion US\$)	43.69	48.36	50.17	49.30	32.39	25.69	31.50	41.56	39.92	NA
<b>Exports of Goods and Services</b> (% of GDP)	64.37	63.21	63.87	61.10	47.34	39.26	44.62	52.09	52.30	NA
<b>Imports of Goods and Services</b> (Current Billion US\$)	23.39	27.93	32.62	30.20	30.09	25.86	29.49	30.61	28.78	NA
<b>Imports of Goods and Services</b> (% of GDP)	34.46	36.50	41.53	37.43	43.98	39.52	41.78	38.37	37.71	NA
<b>Inflation consumer prices</b> (annual %)	4.04	2.95	1.05	1.02	0.07	1.11	1.60	0.88	0.13	-0.90
<b>Energy use</b> (kg of oil equivalent per capita)	6,771.21	6,767.62	6,490.22	6,040.62	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	5,395.09	5,969.07	5,639.07	5,094.76	5,212.68	4,938.85	4,836.59	5,021.00	4,775.99	4,729.06

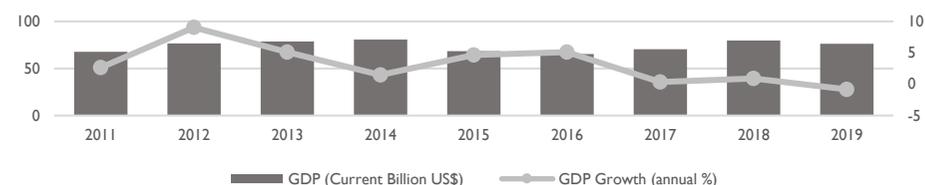
Graph 5.6.1.1. Oman: Population and Labor Force

2011 - 2020 | Millions Inhabitants



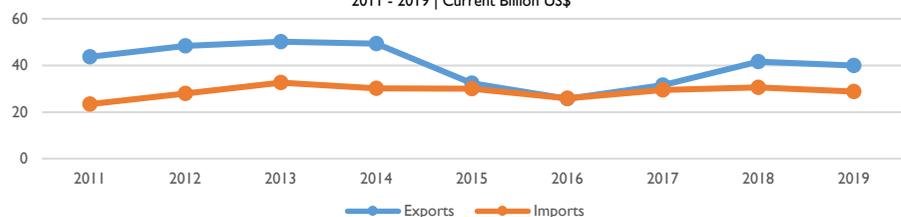
Graph 5.6.1.2. Oman: GDP and GDP Growth

2011 - 2019 | Current Billion US\$ and Annual %



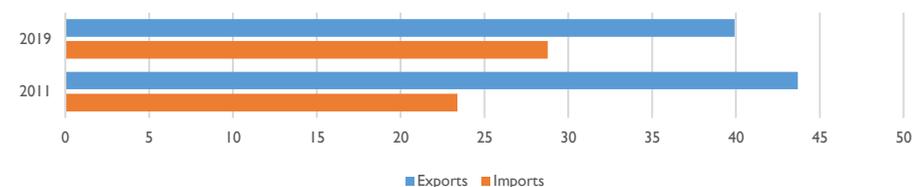
Graph 5.6.1.3. Oman: Exports and Imports (Goods and Services)

2011 - 2019 | Current Billion US\$



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

2011 vs 2019 | Current Billion US\$



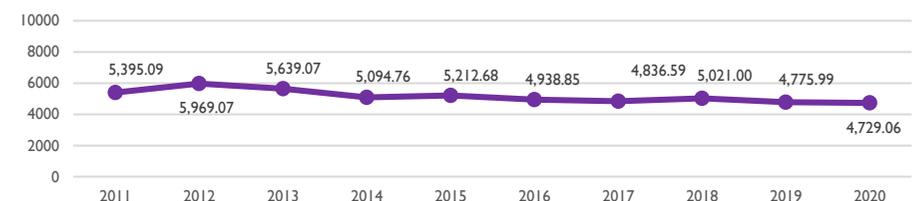
Graph 5.6.1.5. Oman: Inflation (Consumer Prices)

2011 - 2020 | Annual %



Graph 5.6.1.6. Oman: Natural Gas Use

2011 - 2020 | Scm per Capita



### 5.6.2 Reserves and Production

Table 5.6.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	515	505	706	705	705	705	705	677	674	673

Table 5.6.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	33.39	35.69	37.69	37.42	38.58	39.65	38.91	44.42	44.95	45.16
<b>Marketed Production</b>	27.14	29.72	30.94	30.45	30.66	31.28	31.25	35.65	35.88	35.67
<b>Reinjection</b>	2.96	2.53	2.86	2.85	3.71	3.80	2.90	3.85	3.94	4.10
<b>Flaring</b>	0.92	1.30	1.53	1.57	1.43	1.70	1.70	1.60	1.65	1.59
<b>Other Losses</b>	2.38	2.14	2.36	2.54	2.78	2.87	3.06	3.32	3.48	3.80

### 5.6.3 Domestic Consumption and Trade

Table 5.6.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	17.54	20.88	21.23	20.52	22.24	22.12	22.57	24.25	23.76	24.15

Table 5.6.3.2 Historical Trade: Natural Gas Exports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>LNG</b>	Bcm*	10.93	10.86	11.28	10.27	10.00	10.64	11.15	13.28	13.44	13.20
	MMT	8.04	7.99	8.29	7.55	7.35	7.82	8.20	9.76	9.88	9.71
<b>Totals (Bcm)</b>	10.93	10.86	11.28	10.27	10.00	10.64	11.15	13.28	13.44	13.20	

\* Gas equivalent

Table 5.6.3.3 Historical Trade: Natural Gas Imports (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline</b>	1.95	1.95	1.95	1.97	1.99	1.97	1.97	1.97	2.00	1.68
<b>Totals</b>	1.95	1.95	1.95	1.97	1.99	1.97	1.97	1.97	2.00	1.68

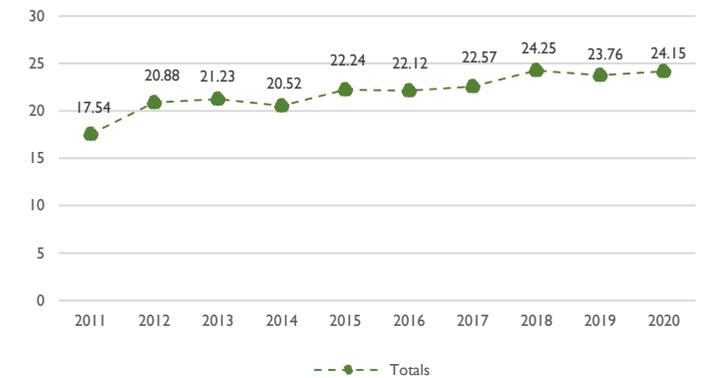
Graph 5.6.2.1. Oman: Natural Gas Annual Production

2011 - 2020 | Bcm



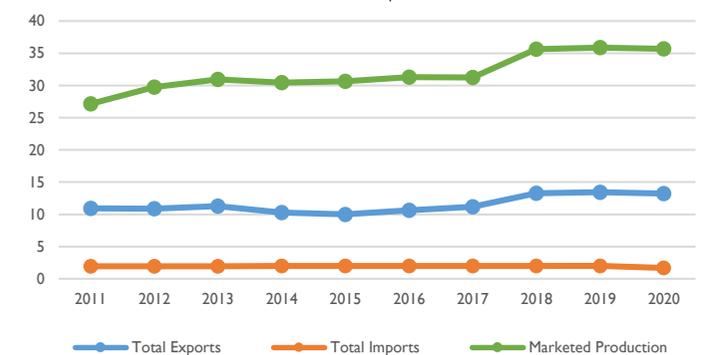
Graph 5.6.3.1. Oman: Natural Gas Annual Domestic Consumption

2011 - 2020 | Bcm



Graph 5.6.3.2. Oman: Natural Gas Trade and Marketed Production

2011 - 2020 | Bcm



## 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								
Dolphin	Qatar	Oman	United Arab Emirates	Dolphin Energy	Dolphin Energy	Operational	33.1	Import	2007	364	48
Asaluye-Sohar	Iran	Oman	NA	NIOC, OGC	NIOC, OGC	Planned	9.9	Import	2020	NA	NA

Table 5.6.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Qalhat	3	10.8	Operational	2000	Oman LNG	Oman LNG



Republic of  
**PERU**



1 285 220 km<sup>2</sup>



Population:  
32 971 846



Capital:  
Lima



Continent:  
South  
America



Currency:  
Peruvian Sol



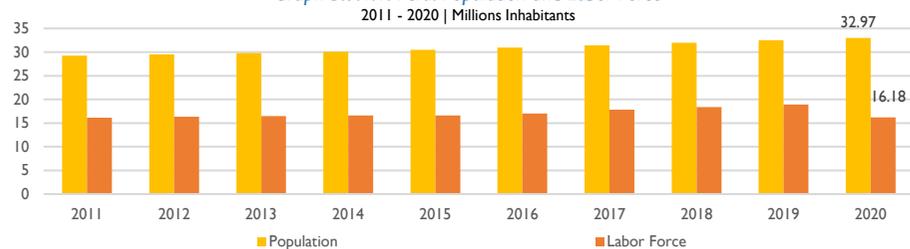
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## 5.7.1 Macroeconomics

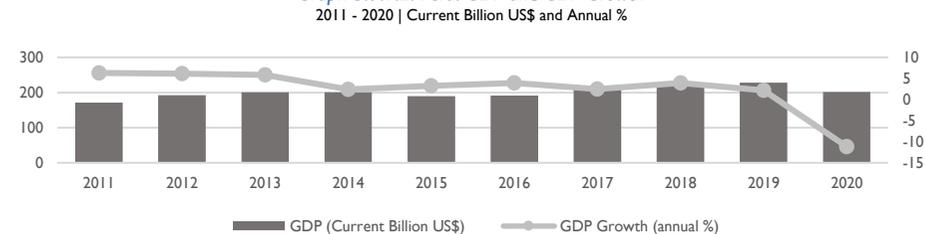
Table 5.7.1.1 Peru Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	29,264,314	29,506,790	29,773,986	30,090,372	30,470,739	30,926,036	31,444,299	31,989,265	32,510,462	32,971,846
<b>Labor Force</b> (Inhabitants)	16,167,033	16,369,958	16,498,668	16,586,669	16,615,223	17,008,002	17,847,718	18,411,999	18,920,065	16,181,966
<b>GDP</b> (Current Billion US\$)	171.76	192.65	201.18	200.79	189.81	191.90	211.01	222.57	228.47	202.01
<b>GDP Growth</b> (annual %)	6.33	6.14	5.85	2.38	3.25	3.95	2.52	3.97	2.20	-11.15
<b>GDP per capita</b> (Current US\$)	5,869.32	6,528.97	6,756.75	6,672.88	6,229.10	6,205.00	6,710.51	6,957.79	7,027.61	6,126.87
<b>Exports of Goods and Services</b> (Current Billion US\$)	52.39	52.88	49.91	45.39	40.40	43.37	52.16	56.08	54.60	45.12
<b>Exports of Goods and Services</b> (% of GDP)	30.50	27.45	24.81	22.61	21.29	22.60	24.72	25.19	23.90	22.33
<b>Imports of Goods and Services</b> (Current Billion US\$)	43.77	48.49	50.25	48.68	45.32	43.73	48.10	52.18	52.30	42.63
<b>Imports of Goods and Services</b> (% of GDP)	25.49	25.17	24.98	24.25	23.88	22.79	22.79	23.44	22.89	21.10
<b>Inflation consumer prices</b> (annual %)	3.37	3.66	2.81	3.24	3.55	3.59	2.80	1.32	2.14	1.83
<b>Energy use</b> (kg of oil equivalent per capita)	649.26	692.95	684.15	790.22	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	195.12	224.02	235.78	254.57	251.72	288.99	238.20	241.50	255.30	213.97

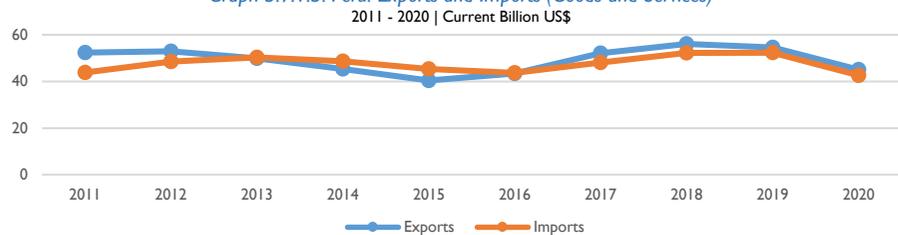
Graph 5.7.1.1. Peru: Population and Labor Force



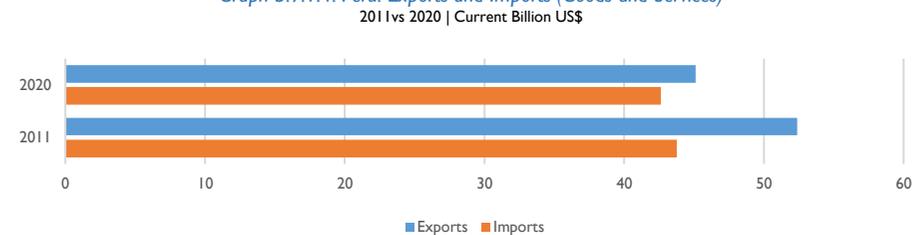
Graph 5.7.1.2. Peru: GDP and GDP Growth



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



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



Graph 5.7.1.5. Peru: Inflation (Consumer Prices)



Graph 5.7.1.6. Peru: Natural Gas Use



### 5.7.2 Reserves and Production

Table 5.7.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	359	435	426	414	399	456	365	300	300	300

Table 5.7.2.2 Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	14.66	15.96	16.43	18.65	17.19	19.68	18.44	17.11	18.07	16.38
<b>Marketed Production</b>	11.54	11.99	12.43	13.16	12.69	14.07	12.99	12.74	13.55	12.06
<b>Reinjection</b>	2.32	2.87	3.00	5.14	4.20	5.20	5.10	4.10	4.20	4.00
<b>Flaring</b>	0.16	0.15	0.10	0.21	0.10	0.20	0.14	0.11	0.11	0.11
<b>Other Losses</b>	0.64	0.94	0.90	0.14	0.20	0.21	0.21	0.15	0.21	0.21

### 5.7.3 Domestic Consumption and Trade

Table 5.7.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	5.71	6.61	7.02	7.66	7.67	8.94	7.49	7.73	8.30	7.06

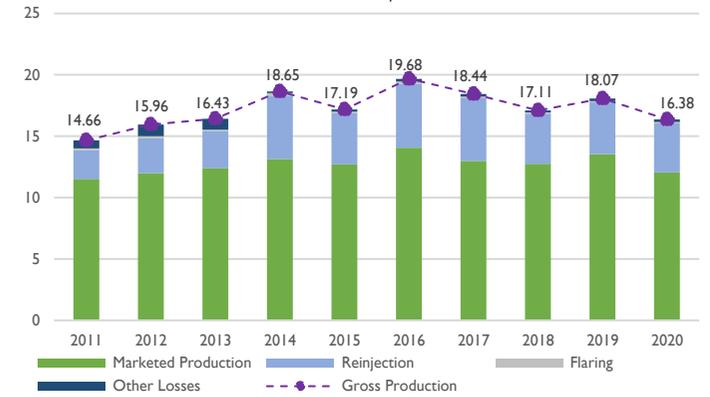
Table 5.7.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
<b>LNG</b>	Bcm*	5.64	5.32	5.18	5.24	4.83	5.72	5.50	4.70	5.20	5.08
	MMT	4.15	3.91	3.81	3.85	3.55	4.21	4.04	3.46	3.82	3.73
<b>Totals (Bcm)</b>	5.64	5.32	5.18	5.24	4.83	5.72	5.50	4.70	5.20	5.08	

\* Gas equivalent

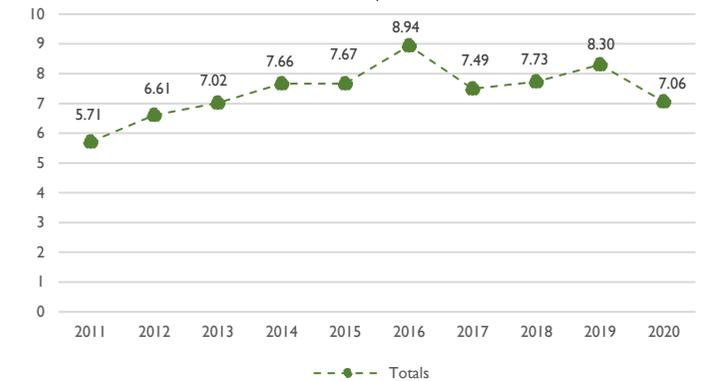
Graph 5.7.2.1. Peru: Natural Gas Annual Production

2011 - 2020 | Bcm



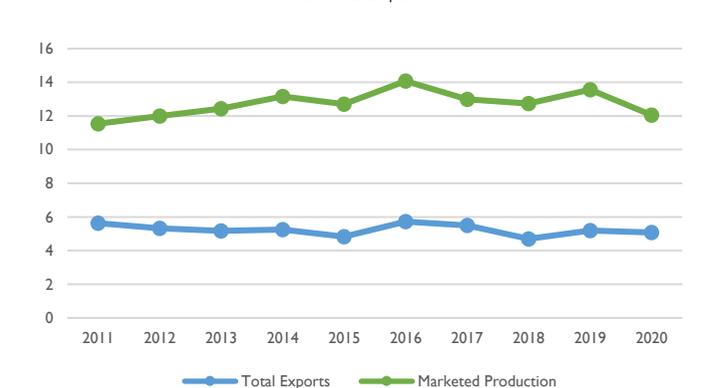
Graph 5.7.3.1. Peru: Natural Gas Annual Domestic Consumption

2011 - 2020 | Bcm



Graph 5.7.3.2. Peru: Natural Gas Trade and Marketed Production

2011 - 2020 | Bcm



## 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)
Peru LNG Plant	1	4.5	Operational	2010	Peru LNG Consortium	Hunt Oil Company



# UNITED ARAB EMIRATES



Population:  
9 890 400



Capital:  
Abu Dhabi



Continent:  
Middle East



Currency:  
United Arab  
Emirates Dirham



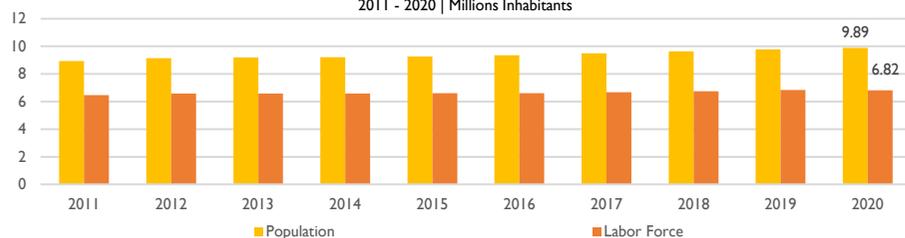
Time Zone:  
Gulf  
GMT+4

5.8.1 Macroeconomics

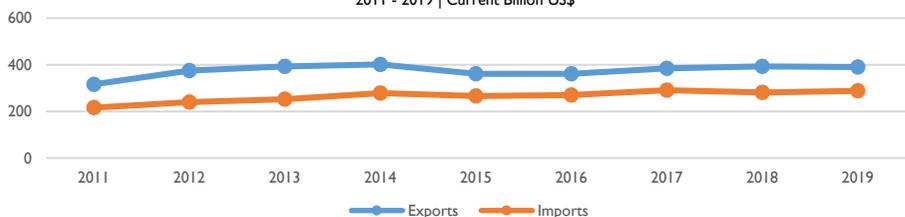
Table 5.8.1.1 United Arab Emirates Macroeconomic Indicators

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Population</b> (Inhabitants)	8,946,778	9,141,598	9,197,908	9,214,182	9,262,896	9,360,975	9,487,206	9,630,966	9,770,526	9,890,400
<b>Labor Force</b> (Inhabitants)	6,473,127	6,576,738	6,583,699	6,572,272	6,600,050	6,612,641	6,676,281	6,753,143	6,834,748	6,820,222
<b>GDP</b> (Current Billion US\$)	350.67	374.59	390.11	403.14	358.14	357.05	385.61	422.22	421.14	NA
<b>GDP Growth</b> (annual %)	6.93	4.48	5.05	4.28	5.11	3.06	2.37	1.19	1.68	NA
<b>GDP per capita</b> (Current US\$)	39,194.67	40,976.49	42,412.64	43,751.81	38,663.40	38,141.87	40,644.79	43,839.32	43,103.34	NA
<b>Exports of Goods and Services</b> (Current Billion US\$)	315.87	375.51	392.24	401.37	361.25	360.63	384.04	392.86	389.37	NA
<b>Exports of Goods and Services</b> (% of GDP)	90.08	100.25	100.55	99.56	100.87	101.00	99.59	93.05	92.46	NA
<b>Imports of Goods and Services</b> (Current Billion US\$)	215.97	239.75	252.51	277.89	266.28	270.44	290.78	281.54	288.40	NA
<b>Imports of Goods and Services</b> (% of GDP)	61.59	64.00	64.73	68.93	74.35	75.74	75.41	66.68	68.48	NA
<b>Inflation consumer prices</b> (annual %)	0.88	0.66	1.10	2.35	4.07	1.62	1.97	3.07	-1.93	-2.08
<b>Energy use</b> (kg of oil equivalent per capita)	7,190.97	7,481.19	7,604.84	7,648.39	NA	NA	NA	NA	NA	NA
<b>Natural Gas use</b> (Scm per capita)	7,064.00	7,175.99	7,273.39	7,152.02	7,754.59	7,686.17	7,587.06	7,396.97	7,324.77	7,123.69

Graph 5.8.1.1. United Arab Emirates: Population and Labor Force  
2011 - 2020 | Millions Inhabitants



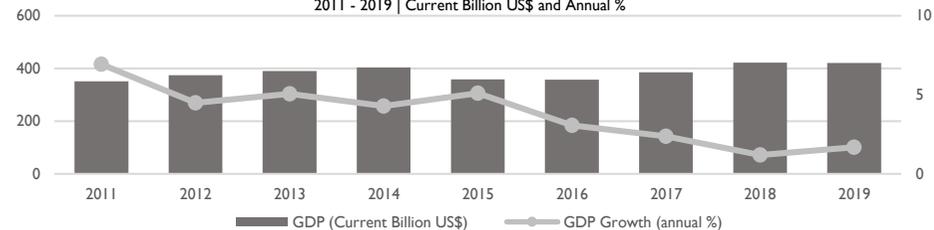
Graph 5.8.1.3. United Arab Emirates: Exports and Imports (Goods and Services)  
2011 - 2019 | Current Billion US\$



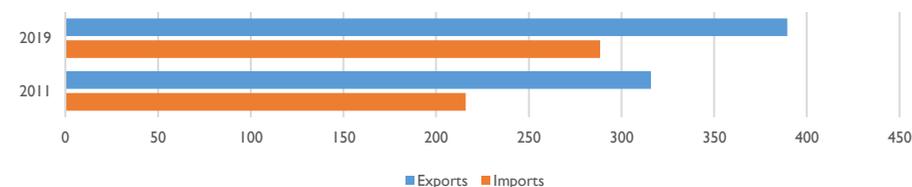
Graph 5.8.1.5. United Arab Emirates: Inflation (Consumer Prices)  
2011 - 2020 | Annual %



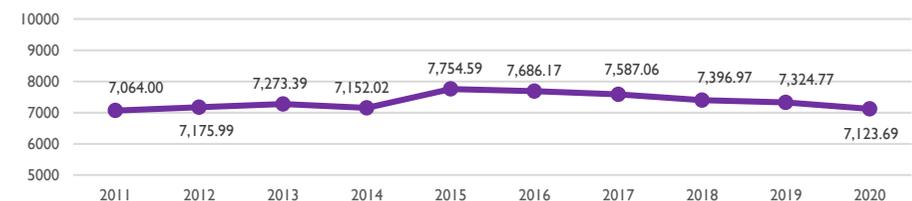
Graph 4.1.1.2. United Arab Emirates: GDP and GDP Growth  
2011 - 2019 | Current Billion US\$ and Annual %



Graph 5.8.1.4. United Arab Emirates: Exports and Imports (Goods and Services)  
2011 vs 2019 | Current Billion US\$



Graph 5.8.1.6. United Arab Emirates: Natural Gas Use  
2011 - 2020 | Scm per Capita



## 5.8.2 Reserves and Production

Table 5.8.2.1 Proven Natural Gas Reserves (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Proven Gas Reserves</b>	6,091	6,091	6,091	6,091	6,091	6,091	6,091	6,091	6,091	6,090

Table 5.8.2.2 Historical Natural Gas Production (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Gross Production</b>	82.43	83.21	84.32	84.31	90.27	91.40	91.63	95.43	93.66	91.72
<b>Marketed Production</b>	52.98	55.61	55.73	55.45	60.04	61.23	54.09	47.96	55.11	54.29
<b>Reinjection</b>	23.97	22.39	23.18	23.40	23.69	23.75	23.78	22.99	23.95	23.45
<b>Flaring</b>	0.98	1.02	1.02	1.02	1.04	1.02	1.14	0.23	0.98	1.30
<b>Shrinkage</b>	0.00	0.00	0.00	0.00	0.40	0.30	7.53	19.01	8.22	7.59
<b>Other Losses</b>	4.50	4.19	4.39	4.44	5.10	5.10	5.10	5.24	5.40	5.09

## 5.8.3 Domestic Consumption and Trade

Table 5.8.3.1 Domestic Gas Consumption (Bcm)

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Totals</b>	63.20	65.60	66.90	65.90	71.83	71.95	71.98	71.24	71.57	70.46

Table 5.8.3.2 Historical Trade: Natural Gas Exports

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>LNG</b>	Bcm*	7.57	7.37	7.19	7.91	7.98	8.06	7.78	7.61	7.46
	MMT	5.57	5.42	5.29	5.82	5.87	5.93	5.72	5.60	5.48
<b>Totals (Bcm)</b>	<b>7.57</b>	<b>7.37</b>	<b>7.19</b>	<b>7.91</b>	<b>7.98</b>	<b>8.06</b>	<b>7.78</b>	<b>7.08</b>	<b>7.61</b>	<b>7.46</b>

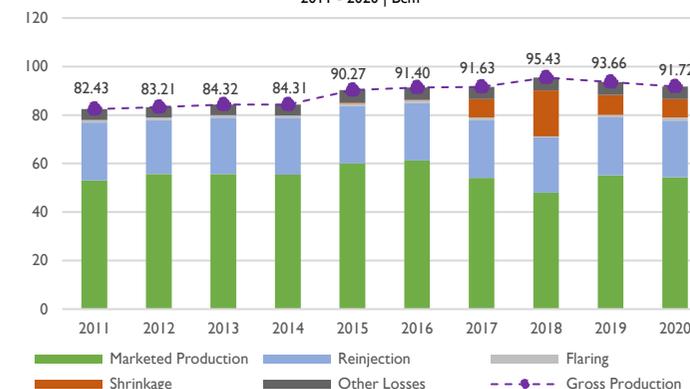
\* Gas equivalent

Table 5.8.3.3 Historical Trade: Natural Gas Imports

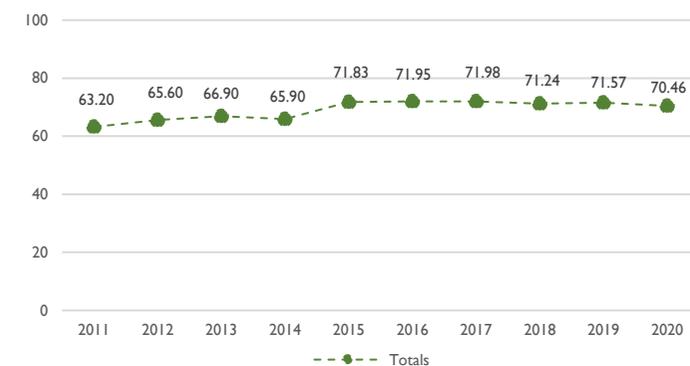
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Pipeline (Bcm)</b>	19.20	19.22	19.90	20.09	19.75	20.00	21.96	22.34	22.45	22.62
<b>LNG</b>	Bcm*	0.54	0.08	0.41	0.26	1.04	0.03	1.50	0.05	1.62
	MMT	0.40	0.06	0.30	0.19	0.76	0.02	1.10	0.19	1.13
<b>Totals (Bcm)</b>	<b>19.74</b>	<b>19.30</b>	<b>20.31</b>	<b>20.35</b>	<b>20.79</b>	<b>20.03</b>	<b>23.46</b>	<b>22.39</b>	<b>24.07</b>	<b>24.15</b>

\* Gas equivalent

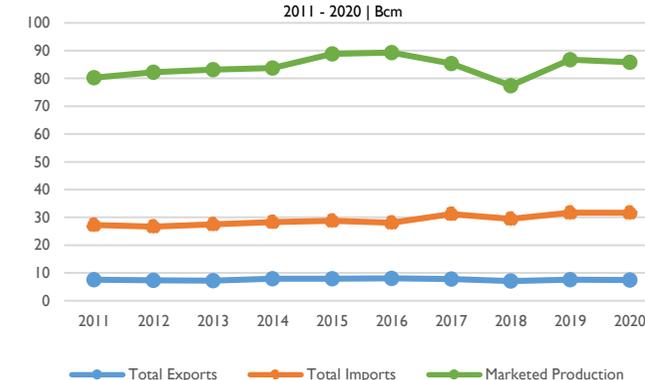
Graph 5.8.2.1. United Arab Emirates: Natural Gas Annual Production 2011 - 2020 | Bcm



Graph 5.8.3.1. United Arab Emirates: Natural Gas Annual Domestic Consumption 2011 - 2020 | Bcm



Graph 5.8.3.2. United Arab Emirates: Natural Gas Trade and Marketed Production 2011 - 2020 | Bcm



## 5.8.4 Transport and Plants

Table 5.8.4.1 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	-	Dolphin Energy	Dolphin Energy	Operational	33.1	Import	2007	364	48

Table 5.8.4.2 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 5.8.4.3 Liquefaction Plants

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

Table 5.8.4.4 Regasification Plants

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



## GECF Main Deliverables

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

The GECF Gas Daily Brief is an initiative created by the GECF Secretariat on 2014, issued on daily basis, only available to GECF Member Countries through the GECF Mobile Application, the GECF 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.

### GECF Weekly Alerts | Exclusive for GECF Member Countries

The GECF Weekly Alerts aim to keep GECF Member Countries updated over the latest developments, in the response of the global gas market to COVID-19, as well as to capturing the critical issues affecting natural gas market and indicators of GECF Gas & LNG exports under the market situation.

### GECF Monthly Short Term Gas Market Report | Exclusive for GECF 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 GECF 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).

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

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

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

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

### GECF 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, GECF developed the first GECF 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 GECF Countries.

### GECF Regional Gas Statistical Reports | Exclusive for GECF 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 GECF in each one, using with JODI-Gas data of Non-GECF Countries.

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

The GECF 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.

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

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

The GECF 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.

### GECF Short Term Gas Market Outlook | Exclusive for GECF Member and Observer Countries

Prepared on annual basis by the Secretariat, the Short Term Gas Market Outlook (STGMO) is a unique, concise and well documented report that describes the views of GECF on the Gas Markets, introduced exclusively in the annual GECF Ministerial Meeting.

### GECF Gas Lectures | General audience

The Gas Lecture Series is a GECF 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.

### GECF Workshops | Exclusive for GECF Member Countries

The Secretariat of the GECF 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 GECF Member Countries

The GECF Secretariat actively develops papers, studies and articles, upon request of GECF 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 GECF Member Countries and the world.

### GECF Website | General audience

As the information portal of forum, the GECF 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 GECF Countries.

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

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

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

The private area of GECF 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 GECF 5 Year Plan.

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

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