

**GECF
Annual
Statistical
Bulletin
2017**



GECF

GAS EXPORTING COUNTRIES FORUM

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Foreword



HE Dr. Seyed Mohammad Hossein Adeli | Secretary General, Gas Exporting Countries Forum (GECF)

When we reviewed the organizational structure of the Secretariat we were very keen to establish an independent department for data, Statistics and IT services. This was simply because we believed that our analysis of the market for both short and long term will be credible when they are based on authentic data preferably from primary sources. This was even more important for us as we were completing a Global Gas Model to prepare GECF Gas Outlook for long term.

It was a long way to go for collecting primary data from member countries. At the first place while bringing the importance of our task to the attention of Honourable Ministers of member countries we requested them to appoint “Special Envoys for Data & Statistics” to be the focal point for this important subject. We also organized a regular annual meeting of

Special Envoys for Data and Statistics “SEDAS” through which we discussed all the process of this important mission. Of course it took us several years to be able to collect regular data from member countries. Then we immediately embarked on our goal of having an “Annual Statistical Bulletin” to publish the primary data on Gas. This was a real challenge! But thanks to the endeavours of our colleagues in the Secretariat and the assistance of SEDAS and Executive Board members and of course with the guidance of Honourable Ministers we were able to fulfil this important mission. Now the first edition of Annual Statistical Bulletin is before you. It is a very valuable bulletin containing data from primary sources that are the most authentic ones. The book comprises of different sections starting from macroeconomics to gas data then to individual countries data. I hope it will be adding to the authenticity of our analysis and hence to furthering the credibility of GECF.

SM Hossein Adeli, PhD
Secretary General

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Mr Amin Shokri, Special Envoy from Islamic Republic of Iran

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Ms Naima Suwani, Special Envoy from State of Libya

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

Ms Valeria Matamoros, Special Envoy from Bolivarian Republic of Venezuela

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

To the Energy and Economic Forecasting Department (EEFD), Gas Market Analysis Department (GMAD) and Secretary General Office (SGO) for their esteemed feedback and comments.

A special gratitude to HE S.M. Hossein Adeli for his encouragement and guidance to release this first edition of the GECF ASB 2017.

About Gas Exporting Countries Forum

The Gas Exporting Countries Forum (GECF) is an international governmental organization which provides the framework for exchanging experience and information among Member Countries, the world's leading gas producers, with the objectives of Maximize Gas Value, Develop the GECF View on Gas Market Developments, Strengthen the Cooperation among GECF Countries, Promote Natural Gas, and Position Internationally GECF as a globally recognized intergovernmental organization. The Secretariat pursue the increase the level of coordination and strengthen the collaboration among Member Countries, building the mechanisms for a more meaningful dialogue between gas producers and gas consumers for the sake of stability and security of supply and demand in global natural gas markets.

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

In accordance with the GECF Statute, the organization aim to support the sovereign rights of its Members 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 coordination in gas-related matters. The Vision of GECF is “to

become a globally recognized credible Forum that will develop and reflect common views and unified positions, 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”; meanwhile GECF 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 Secretariat was formally established in 2009, with its headquarter in Doha, State of Qatar.

In November 2013, the Ministers appointed HE S.M. Hossein Adeli, Iranian national, as the Secretary General of the Forum for a period of two years taking office in 2014. Dr. Adeli is currently embarking on a number of new initiatives and activities to transform the GECF to a credible international platform for gas and to foster dialogue with key stakeholders in the global gas market.

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Definitions

Name	Definition	Source
Domestic Consumption	Volume of gas consumed domestically and excludes the gas exports.	GECF
Energy intensity level of primary energy	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)
Energy use (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
Exports of goods and services (% of GDP)	The Share of Exports of goods and services in the total GDP	World Bank and OECD National Accounts data files.
Exports of goods and services (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.
Flaring	Volume of gas flared or vented	GECF
GDP (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.
GDP growth (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.
GDP per capita (current US\$)	GDP per capita is gross domestic product divided by midyear population.	World Bank and OECD National Accounts data files.
Gross Production	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
Inflation, consumer prices (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.
Liquefaction	The process of conversion natural gas into LNG.	GECF
Liquefied Natural Gas	Natural gas in liquid form. It is a natural gas cooled (liquefied) to about -161 °C (-260°F) at normal pressure after pre-treatment to condense into liquid.	GECF
Marketed Production	Gross Production minus Reinjection, Flaring and shrinkage. This production is available to be marketed either on the local market or to be exported.	GECF
Natural gas	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
Petrochemicals (Feedstock)	Volume of gas consumed as feedstock for petrochemical industry.	GECF
Population	Counts all residents regardless of legal status or citizenship. The values shown are midyear estimates.	World Bank and OECD National Accounts data files.
Power generation	Volume of gas consumed to generate electricity	GECF
Proven Natural Gas Reserves	Estimated quantities that geological and engineering information indicates with reasonable certainty can be recovered in the future from known reservoirs under existing conditions.	BP
Refineries	Volume of gas consumed as fuel in oil refineries.	GECF
Regasification	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
Reinjection	Volume of gas which processed through non associated gas processing plants and fields activities and returns to sub-surface formation to enhance recovery rate.	GECF
Shrinkage	Volume reduction of wet Natural Gas due to the extraction of some of its constituents such as liquid hydrocarbon products and others.	GECF
Status	Refers to last update of pipeline or plant status (Operational, Under construction or Planned)	GECF
Train	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 available
Bcm	Billion Cubic Metres
FLNG	Floating Liquefied Natural Gas Facility
FSRU	Floating Storage Regasification Unit
GDP	Gross Domestic Products
kg	Kilogram
km	Kilometres
LNG	Liquefied Natural Gas
MC	Member Countries
MJ	Mega Joules
MMT	Million Metric Tons
MTPA	Million Tons per Annum
OC	Observer Countries
PPP	Purchasing Power Parity
Scm	Standard Cubic Metres
US\$	United States Dollar

Conversion Factors

Conversion equivalents among LNG & Natural Gas units

From \ To	Metric Tons of LNG	Cubic Metres of LNG	Scm
Metric Tons of LNG	1	2.2	1360
Cubic Metres of LNG	0.45	1	615
Scm	7.35×10^{-4}	1.626×10^{-3}	1

Source: JODI Gas Manual

Conversion equivalents among units of volumes

From \ To	Cubic Feet	Litres	Cubic Metres
Cubic Feet	1	28.3	0.0283
Litres	0.0353	1	0.001
Cubic Metres	35.3147	1000	1

Source: JODI Gas Manual

Data Sources

Section	Sources
Macroeconomics	<ul style="list-style-type: none"> From Primary Sources whenever are available. Otherwise, mainly complemented using data from the World Bank.
Gas Chain figures (Proven Gas Reserves, Gas Production, others)	<ul style="list-style-type: none"> From Primary Sources whenever are available. Otherwise, mainly complemented using GECF estimations, or by using data from the following Secondary Sources (namely alphabetically): Cedigaz, ICIS (LNG Edge), OPEC, the World Bank (EIA, EUROSTAT, OECD/IEA, United Nations Statistics).

General Notes

- Totals in tables may not add up due to independent rounding.
- Member Countries: Algeria, Bolivia, Egypt, Equatorial Guinea, Iran, Libya, Nigeria, Qatar, Russia, Trinidad and Tobago, United Arab Emirates and Venezuela
- Observer Countries: Azerbaijan, Iraq, Kazakhstan, Netherlands, Norway, Oman and Peru

Section I

Executive Summary

I.1 GECF Main Figures

Table I.1.1. GECF Gas Value Chain Figures

		2009	2010	2011	2012	2013	2014	2015	2016
GECF Figures	Gas Proven Reserves (Bcm)	136,795.11	140,212.73	142,105.94	142,023.36	141,876.84	142,112.10	142,251.53	141,421.43
	Natural Gas Gross Production (Bcm)	1,855.73	1,956.97	1,970.28	2,008.72	2,031.91	2,033.90	2,040.67	2,065.30
	Natural Gas Marketed Production (Bcm)	1,397.19	1,551.62	1,565.15	1,612.61	1,642.64	1,608.35	1,628.21	1,684.75
	Natural Gas Domestic Consumption (Bcm)	900.64	928.16	922.91	1,545.19	954.78	973.88	990.90	1,018.27
	Natural Gas Exports (Bcm)	Pipeline	419.96	429.89	445.31	452.59	466.06	429.09	442.75
LNG		154.79	191.65	219.39	220.03	214.43	215.31	213.50	206.25

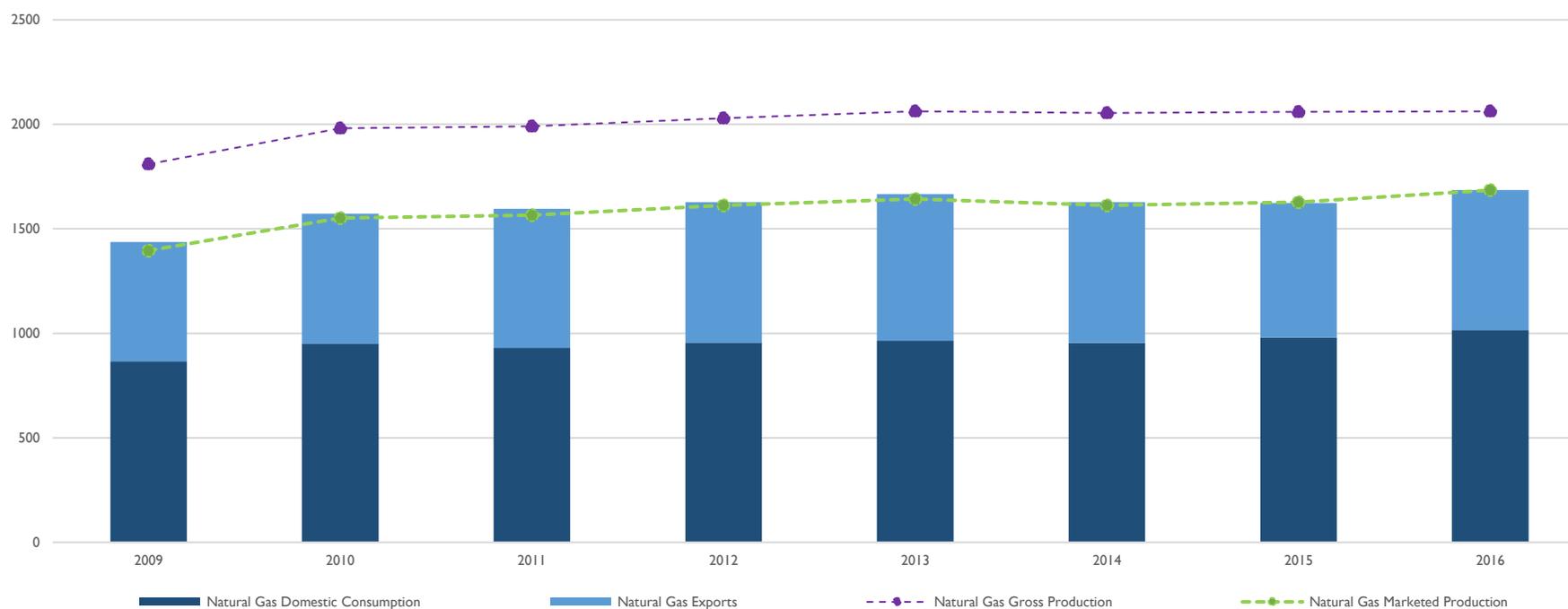
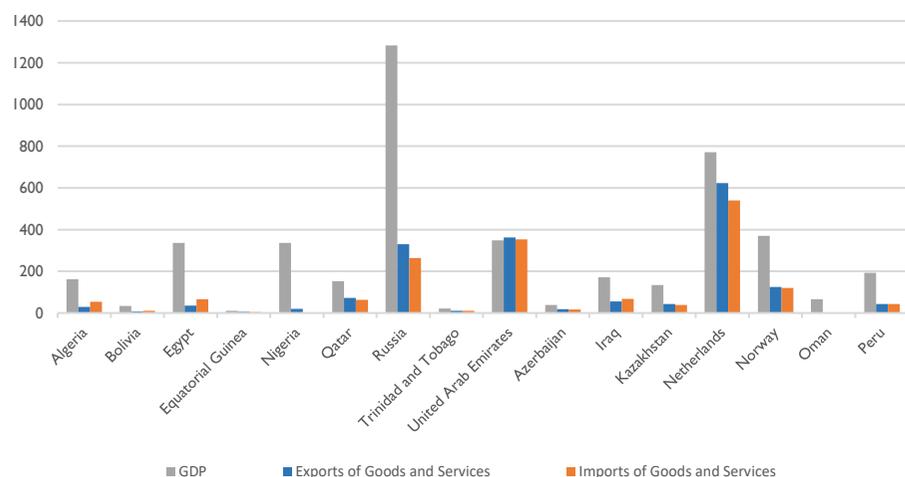
Graph I.1.2. GECF Natural Gas Gross and Marketed Production, Domestic Consumption and Exports (Total)
2009 - 2016 | Bcm

Table 1.1.2. GECF Countries Main Figures in 2016

	Population (inhabitants)	GDP (current billions US\$)	GDP Growth (annual %)	Exports of Goods and Services (current billions US\$)	Imports of Goods and Services (current billions US\$)	Inflation (annual %)	Gas Proven 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)
Members												
Algeria	40,800,000	161.15	3.50	29.04	49.40	6.40	4,504.00	189.14	94.95	38.95	15.03	40.14
Bolivia	10,887,882	33.81	4.26	8.31	10.83	3.63	295.91	21.33	20.61	16.08	-	4.45
Egypt	95,688,681	336.30	4.30	34.82	65.92	13.81	1777.14	46.71	41.93	0.00	0.99	51.28
Equatorial Guinea	1,221,490	10.18	-9.69	5.61	4.51	-	36.80	8.57	6.24	-	4.50	1.74
Iran	80,277,428	-	-	-	-	8.57	33,500.00	277.50	245.72	8.65	-	188.81
Libya	6,293,253	-	-	-	-	-	1,500.00	22.24	15.74	5.77	0.00	9.17
Nigeria	185,816,023	336.31	-1.62	20.30	-	15.62	5,475.20	76.78	41.99	0.12	25.02	8.88
Qatar	2,569,804	152.47	2.23	72.40	63.48	2.88	24,300.00	209.51	203.44	20.00	104.40	41.70
Russia	146,500,000	1,283.16	-0.22	285.67	182.27	7.47	47,464.50	640.20	637.10	208.60	10.90	456.70
Trinidad and Tobago	1,364,962	20.99	-5.11	10.11	10.64	-	0.00	34.00	31.81	-	14.27	15.05
United Arab Emirates	9,121,167	348.74	3.04	362.06	353.76	1.62	6,040.50	93.40	67.23	-	8.06	76.60
Venezuela	31,028,637	-	-	-	-	-	5,739.70	82.16	28.90	-	-	26.05
Observers												
Azerbaijan	9,762,274	37.85	-3.10	17.58	16.53	4.18	1,100.00	28.11	17.50	8.44	-	9.58
Iraq	37,202,572	171.49	11.00	55.83	67.32	-	3,700.00	22.76	1.10	-	-	1.10
Kazakhstan	17,797,032	133.66	1.00	43.63	38.98	-	1,900.00	42.84	20.73	12.19	-	13.45
Netherlands	17,018,408	770.85	2.14	622.91	538.96	0.32	709.26	46.40	46.40	51.76	0.99	37.70
Norway	5,232,929	370.56	1.08	125.20	120.61	3.55	2,275.92	165.51	118.98	108.81	6.12	5.26
Oman	4,424,762	66.29	-	-	-	-	702.50	39.16	30.90	-	10.81	22.76
Peru	31,773,839	192.09	3.88	43.12	42.95	3.60	400.00	18.98	13.48	-	5.16	7.85

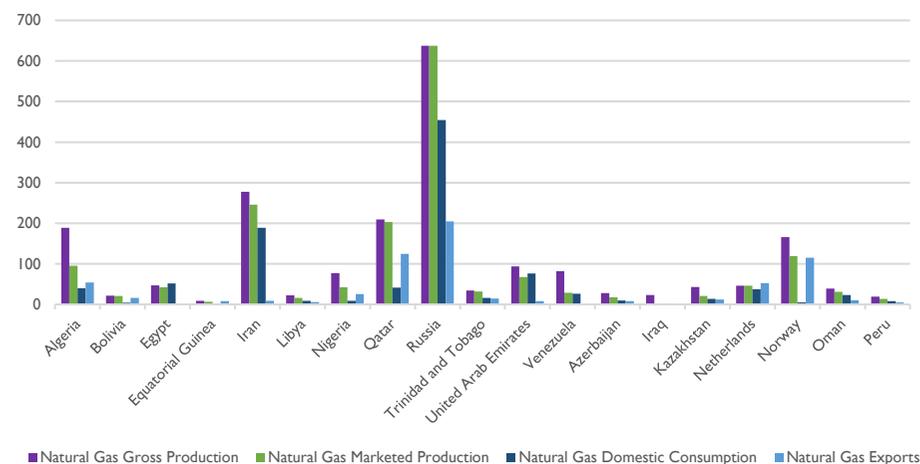
Graph 1.1.3. GECF Member, Observer Countries: GDP, Exports and Imports of Good and Services

2009 - 2016 | Current Billions US\$



Graph 1.1.4. GECF Member, Observer Countries: Natural Gas Gross and Marketed Production, Domestic Consumption and Exports

2009 - 2016 | Bcm



Section 2

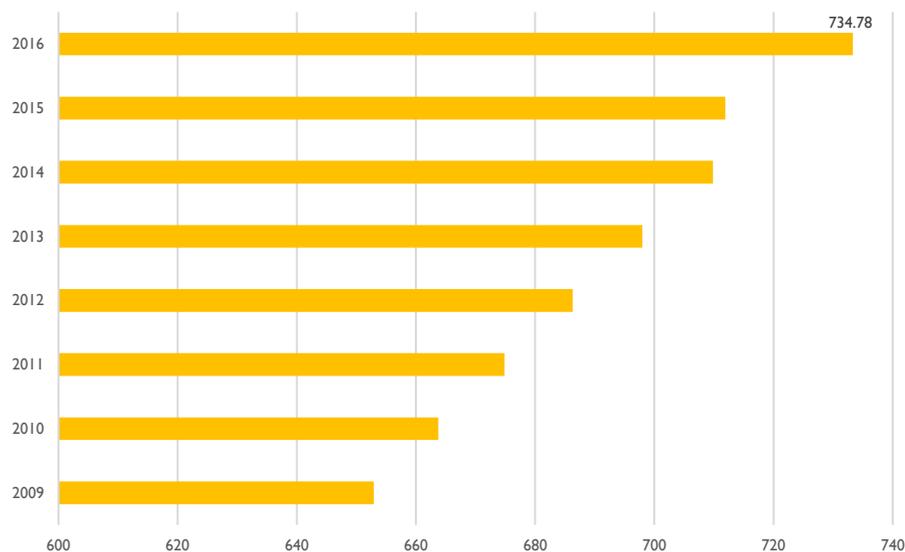
GECF Macroeconomics

2.1 Population

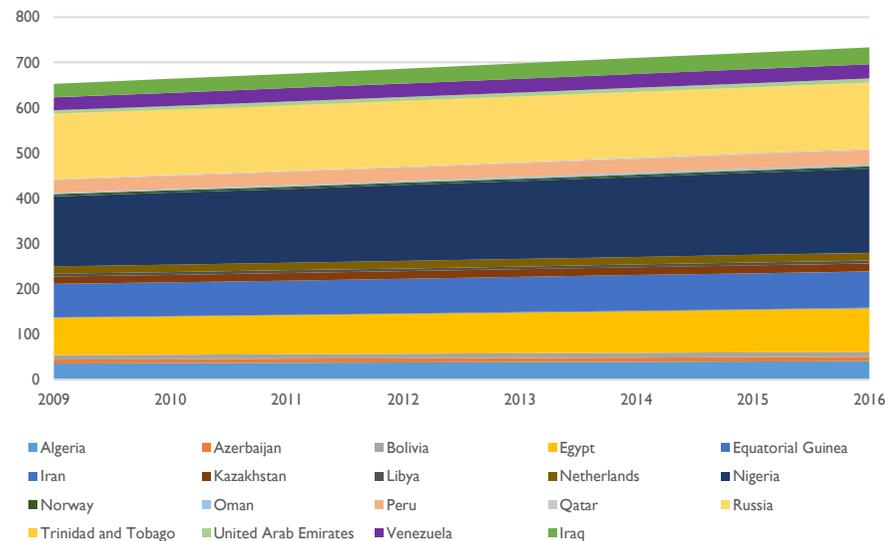
Table 2.1.1 GECF Countries Population (Inhabitants)

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	35,268,000	35,978,000	36,717,000	37,495,000	38,297,000	39,114,000	39,963,000	40,800,000
Bolivia	9,758,748	9,918,242	10,078,343	10,239,004	10,400,264	10,562,159	10,724,705	10,887,882
Egypt	82,465,022	84,107,606	85,897,561	87,813,257	89,807,433	91,812,566	93,778,172	95,688,681
Equatorial Guinea	909,111	951,104	994,290	1,038,593	1,083,746	1,129,424	1,175,389	1,221,490
Iran	73,687,565	74,567,511	75,491,582	76,453,574	77,435,384	78,411,092	79,360,487	80,277,428
Libya	6,121,053	6,169,140	6,193,501	6,198,258	6,195,970	6,204,108	6,234,955	6,293,253
Nigeria	148,406,069	152,561,439	156,833,159	161,224,487	170,379,459	175,150,084	180,054,286	185,816,023
Qatar	1,590,780	1,779,676	1,952,054	2,109,568	2,250,473	2,374,419	2,481,539	2,569,804
Russia	142,700,000	142,900,000	142,900,000	143,000,000	143,300,000	143,700,000	146,300,000	146,500,000
Trinidad and Tobago	1,321,618	1,328,100	1,334,788	1,341,588	1,348,248	1,354,493	1,360,092	1,364,962
United Arab Emirates	7,705,423	8,329,453	8,734,722	8,952,542	9,039,978	9,086,139	9,156,963	9,121,167
Venezuela	28,587,323	29,028,033	29,463,291	29,893,080	30,317,848	30,738,378	31,155,134	31,028,637
Observers								
Azerbaijan	8,947,243	9,054,332	9,173,082	9,295,784	9,416,801	9,535,079	9,649,341	9,762,274
Iraq	29,894,652	30,762,701	31,727,053	32,776,571	33,883,145	35,006,080	36,115,649	37,202,572
Kazakhstan	16,092,701	16,321,581	16,556,600	16,791,425	17,035,275	17,289,224	17,544,126	17,797,032
Netherlands	16,530,388	16,615,394	16,693,074	16,754,962	16,804,432	16,865,008	16,939,923	17,018,408
Norway	4,828,726	4,889,252	4,953,088	5,018,573	5,079,623	5,137,232	5,188,607	5,232,929
Oman	2,882,942	3,041,460	3,237,268	3,464,644	3,711,481	3,960,925	4,199,810	4,424,762
Peru	29,001,507	29,373,646	29,759,989	30,158,966	30,565,716	30,973,354	31,376,671	31,773,839
Totals	646,698,871	657,676,670	668,690,445	680,019,876	696,352,276	708,403,764	722,758,849	734,781,143

Graph 2.1.1. GECF Member and Observer Countries Population
Totals | 2009 - 2016 | Million Inhabitants



Graph 2.1.2. GECF Member and Observer Countries Population
Per Country | 2009 - 2016 | Million Inhabitants



2.2 GDP

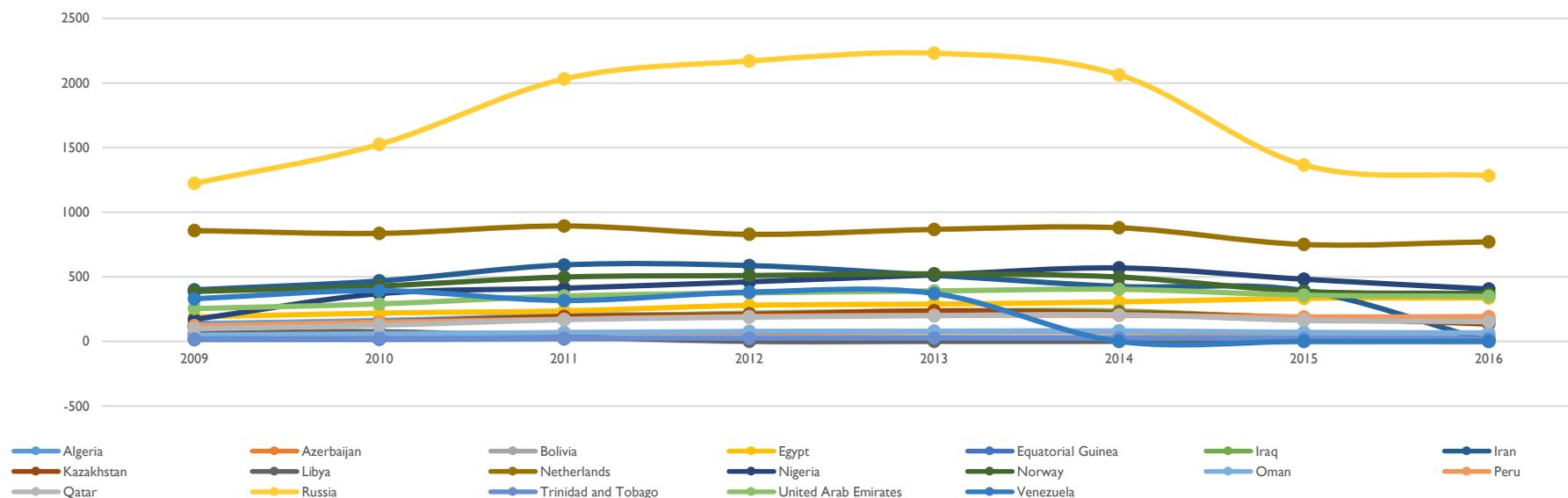
Table 2.2.1 GECF Countries GDP (current billion US\$)

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	137.21	161.20	200.20	209.05	209.80	214.00	165.10	161.15
Bolivia	17.34	19.65	23.96	27.08	30.66	33.00	33.00	33.81
Egypt	188.98	218.89	236.00	279.37	288.59	305.53	332.70	336.30
Equatorial Guinea	15.03	16.30	21.33	22.39	21.94	21.46	12.16	10.18
Iran	398.98	467.79	592.04	587.21	511.62	425.33	393.44	-
Libya	63.03	74.77	34.70	-	-	-	-	-
Nigeria	296.06	368.18	402.57	461.45	515.14	531.22	483.14	336.31
Qatar	97.80	125.12	167.78	186.83	198.73	206.22	164.64	152.47
Russia	1,222.64	1,524.92	2,031.77	2,170.14	2,230.63	2,063.66	1,365.87	1,283.16
Trinidad and Tobago	19.18	22.16	25.43	25.69	26.44	26.18	23.56	20.99
United Arab Emirates	253.55	286.05	348.53	373.43	388.60	401.96	370.30	348.74
Venezuela	329.79	393.19	316.48	381.29	371.01	-	-	-
Observers								
Azerbaijan	44.29	52.90	65.95	69.68	74.16	75.24	53.07	37.85
Iraq	111.66	138.52	185.75	218.00	234.65	234.65	179.64	171.49
Kazakhstan	115.31	148.05	192.63	208.00	236.63	221.42	184.39	133.66
Netherlands	857.93	836.39	893.76	828.95	866.68	879.64	750.32	770.85
Norway	386.38	428.53	498.16	509.70	522.75	498.34	386.58	370.56
Oman	48.39	58.64	67.94	76.69	78.94	81.03	69.83	66.29
Peru	120.82	147.53	171.76	192.65	201.22	201.05	189.21	192.09

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

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	3,890.53	4,480.52	5,452.52	5,575.34	5,478.24	5,471.19	4,131.32	3,949.71
Bolivia	1,776.87	1,981.16	2,377.68	2,645.23	2,947.94	3,124.00	3,077.03	3,104.96
Egypt	2,291.67	2,602.48	2,747.48	3,181.44	3,213.39	3,327.75	3,547.71	3,514.49
Equatorial Guinea	16,530.21	17,136.45	21,451.89	21,557.65	20,246.99	19,002.60	10,347.31	8,333.24
Iran	5,414.46	6,273.38	7,842.43	7,680.60	6,607.07	5,424.31	4,957.58	-
Libya	10,296.97	12,120.56	5,602.55	-	-	-	-	-
Nigeria	1,994.96	2,413.29	2,566.86	2,862.19	3,023.51	3,032.93	2,683.28	1,809.92
Qatar	61,478.24	70,306.23	85,948.07	88,564.82	88,304.88	86,852.71	66,346.52	59,330.86
Russia	8,562.81	10,674.99	14,212.06	15,154.46	15,543.68	14,348.96	9,478.80	8,889.71
Trinidad and Tobago	14,508.88	16,683.95	19,053.97	19,152.05	19,607.83	19,325.24	17,321.83	15,377.10
United Arab Emirates	32,905.05	34,341.91	39,901.22	41,712.40	42,986.66	44,238.60	40,438.76	38,234.47
Venezuela	11,536.15	13,545.21	10,741.58	12,755.00	12,237.22	-	-	-
Observers								
Azerbaijan	4,950.29	5,842.81	7,189.69	7,496.34	7,875.76	7,891.30	5,500.31	3,876.94
Iraq	3,735.14	4,502.75	5,854.61	6,651.12	6,925.22	6,703.07	4,974.03	4,609.60
Kazakhstan	7,165.28	9,070.65	11,634.42	12,387.19	13,890.86	12,806.57	10,509.98	7,510.08
Netherlands	51,900.34	50,338.25	53,540.61	49,474.71	51,574.49	52,157.41	44,292.88	45,294.78
Norway	80,017.78	87,646.75	100,574.99	101,563.70	102,910.44	97,005.50	74,505.25	70,812.48
Oman	16,784.35	19,280.75	20,986.00	22,134.91	21,268.76	20,458.45	16,627.36	14,982.36
Peru	4,166.09	5,022.49	5,771.57	6,387.79	6,583.12	6,491.05	6,030.34	6,045.65

Graph 2.2.1. GECF Member and Observer Countries GDP
Per Country | 2009 - 2016 | Current Billion US\$



2.3 Exports & Imports of Goods and Services

Table 2.3.1 Exports of Goods & Services (current billion US\$)

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	48.53	61.97	77.65	77.12	69.69	65.19	34.51	29.04
Bolivia	6.19	8.09	10.57	12.77	13.52	14.29	10.19	8.31
Egypt	47.16	46.73	48.54	45.81	49.11	43.52	43.86	34.82
Equatorial Guinea	11.17	13.98	16.02	16.10	14.84	14.34	7.28	5.61
Iran	93.83	118.82	151.93	131.31	140.56	102.80	77.68	-
Libya	37.34	49.06	19.03	-	-	-	-	-
Nigeria	57.54	79.73	96.27	96.23	97.05	76.38	44.90	20.30
Qatar	50.01	77.98	121.84	142.88	144.51	140.23	92.29	72.40
Russia	341.58	445.51	573.99	524.74	525.98	497.36	343.51	285.67
Trinidad and Tobago	9.99	12.11	15.88	13.88	19.74	15.59	11.85	10.11
United Arab Emirates	201.96	225.27	314.83	375.80	392.57	391.30	360.52	362.06
Venezuela	59.60	112.18	94.76	99.79	91.88	-	-	-
Observers								
Azerbaijan	22.87	28.73	37.21	36.91	35.84	32.55	20.06	17.58
Iraq	43.99	54.60	82.51	96.90	93.10	97.00	62.80	55.83
Kazakhstan	48.24	65.50	89.50	91.75	91.38	87.11	52.58	43.63
Netherlands	541.82	601.82	691.38	679.21	710.77	726.27	618.74	622.91
Norway	151.52	170.64	205.92	207.02	204.89	193.66	144.53	125.20
Oman	24.50	38.50	49.42	54.83	59.39	56.35	39.17	-
Peru	31.95	41.05	52.39	52.88	49.91	45.39	40.30	43.12

Table 2.3.3 Imports of Goods & Services (current billion US\$)

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	49.33	50.65	57.38	59.62	63.78	68.26	52.60	49.40
Bolivia	5.71	6.74	9.20	10.23	11.39	13.85	12.23	10.83
Egypt	59.71	58.20	58.26	67.93	67.40	69.28	72.07	65.92
Equatorial Guinea	7.19	9.60	8.38	10.02	8.61	8.35	5.51	4.51
Iran	87.39	95.13	97.95	121.74	101.24	80.36	75.83	-
Libya	26.99	31.48	15.54	-	-	-	-	-
Nigeria	52.60	64.17	88.38	59.65	66.94	70.78	50.48	-
Qatar	28.37	29.72	43.79	54.69	58.95	64.00	59.27	63.48
Russia	250.60	322.37	408.78	317.26	315.29	287.06	182.90	182.27
Trinidad and Tobago	7.36	6.89	11.06	13.26	14.07	12.77	11.27	10.64
United Arab Emirates	187.14	226.06	284.50	318.57	331.20	357.82	355.56	353.76
Venezuela	67.44	69.23	62.33	92.40	109.49	-	-	-
Observers								
Azerbaijan	10.24	10.94	15.88	17.62	19.77	19.72	18.47	16.53
Iraq	43.87	47.21	51.55	63.44	84.50	86.70	73.60	67.32
Kazakhstan	39.12	44.26	51.34	61.60	63.40	56.75	45.24	38.98
Netherlands	478.95	531.87	615.05	599.62	618.07	630.90	537.86	538.96
Norway	107.86	122.51	141.95	141.13	149.03	149.29	123.55	120.61
Oman	16.76	24.17	29.24	34.40	41.83	37.86	36.67	-
Peru	26.18	35.18	43.77	48.49	50.25	48.68	44.86	42.95

Table 2.3.2 Exports of Goods & Services (% of GDP)

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	35.37	38.44	38.79	36.89	33.22	30.46	20.90	18.02
Bolivia	35.72	41.19	44.09	47.17	44.09	43.29	30.87	24.59
Egypt	24.96	21.35	20.57	16.40	17.02	14.24	13.18	10.35
Equatorial Guinea	74.34	85.76	75.10	71.90	67.65	66.81	59.89	55.11
Iran	23.52	25.40	25.66	22.36	27.47	24.17	19.74	-
Libya	59.24	65.60	54.83	-	-	-	-	-
Nigeria	19.43	21.65	23.91	20.85	18.84	14.38	9.29	6.04
Qatar	51.13	62.32	72.62	76.47	72.72	68.00	56.06	47.48
Russia	27.94	29.22	28.25	24.18	23.58	24.10	25.15	22.26
Trinidad and Tobago	52.08	54.67	62.46	54.01	74.66	59.54	50.31	48.14
United Arab Emirates	79.65	78.75	90.33	100.63	101.02	97.35	97.36	103.82
Venezuela	18.07	28.53	29.94	26.17	24.76	-	-	-
Observers								
Azerbaijan	51.64	54.30	56.43	52.97	48.33	43.26	37.79	46.45
Iraq	39.40	39.42	44.42	44.45	39.68	41.34	34.96	32.56
Kazakhstan	41.84	44.24	46.46	44.11	38.62	39.34	28.52	32.64
Netherlands	63.15	71.95	77.36	81.94	82.01	82.57	82.46	80.81
Norway	39.22	39.82	41.34	40.62	39.20	38.86	37.39	33.79
Oman	50.64	65.65	72.75	71.49	75.23	69.54	56.09	-
Peru	26.44	27.83	30.50	27.45	24.80	22.58	21.30	22.45

Table 2.3.4 Imports of Goods & Services (% of GDP)

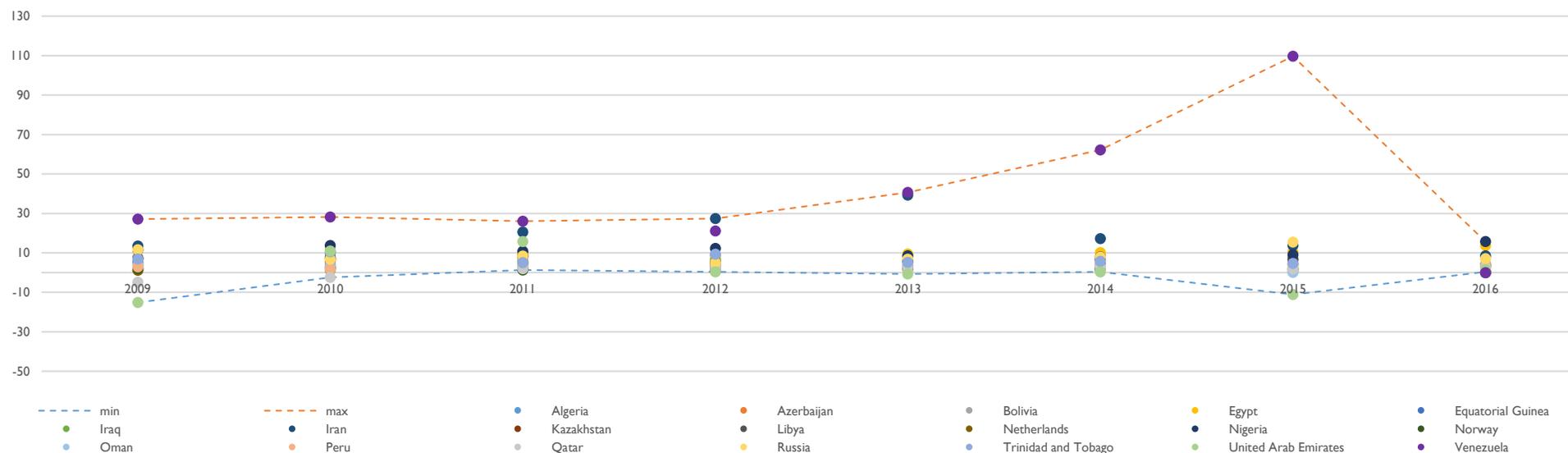
	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	35.95	31.42	28.66	28.52	30.40	31.90	36.72	33.33
Bolivia	32.90	34.32	38.39	37.78	37.14	41.97	37.06	32.04
Egypt	31.60	26.59	24.69	24.31	23.36	22.68	21.66	19.60
Equatorial Guinea	47.87	58.91	39.28	44.77	39.24	38.91	45.27	44.32
Iran	21.90	20.34	16.54	20.73	19.79	18.89	19.27	-
Libya	42.82	42.10	44.79	-	-	-	-	-
Nigeria	17.77	17.43	21.95	12.93	12.99	13.32	10.45	-
Qatar	29.01	23.75	26.10	29.27	29.67	31.04	36.00	41.63
Russia	20.50	21.14	20.12	14.62	14.13	13.91	13.39	14.20
Trinidad and Tobago	38.40	31.10	43.48	51.61	53.21	48.77	47.85	50.67
United Arab Emirates	73.81	79.03	81.63	85.31	85.23	89.02	96.02	101.44
Venezuela	20.45	17.61	19.70	24.23	29.51	-	-	-
Observers								
Azerbaijan	23.11	20.68	24.08	25.29	26.65	26.21	34.81	43.67
Iraq	39.29	34.08	27.75	29.10	36.01	36.95	40.97	39.26
Kazakhstan	33.93	29.89	26.65	29.61	26.79	25.63	24.53	29.16
Netherlands	55.83	63.59	68.82	72.33	71.31	71.72	71.68	69.92
Norway	27.92	28.59	28.50	27.69	28.51	29.96	31.96	32.55
Oman	34.65	41.21	43.04	44.85	52.99	46.72	52.51	-
Peru	21.67	23.85	25.49	25.17	24.97	24.21	23.71	22.36

2.4 Inflation

Table 2.4.1 Inflation Consumer Prices (annual %)

	2009	2010	2011	2012	2013	2014	2015	2016
Members								
Algeria	5.70	3.90	4.50	8.90	3.30	2.90	4.80	6.40
Bolivia	3.35	2.50	9.81	4.59	5.72	5.78	4.06	3.63
Egypt	11.76	11.27	10.05	7.12	9.42	10.15	10.36	13.81
Equatorial Guinea	4.69	7.79	4.81	3.66	2.95	4.31	1.67	-
Iran	13.50	10.14	20.63	27.36	39.27	17.24	13.71	8.57
Libya	2.46	2.80	15.52	6.06	2.61	-	-	-
Nigeria	12.60	13.70	10.90	12.20	8.50	8.00	9.00	15.62
Qatar	-4.86	-2.43	1.92	1.87	3.13	3.08	1.88	2.88
Russia	12.06	5.46	7.63	5.54	5.64	7.56	16.31	7.47
Trinidad and Tobago	6.97	10.55	5.10	9.27	5.20	5.68	4.66	-
United Arab Emirates	-15.18	11.00	15.81	0.33	-0.64	0.35	-11.21	1.62
Venezuela	27.08	28.19	26.09	21.07	40.64	62.17	109.68	-
Observers								
Azerbaijan	1.40	5.67	7.85	1.01	2.38	1.39	4.17	4.18
Iraq	6.87	2.88	5.80	6.09	1.88	2.24	1.39	-
Kazakhstan	7.31	7.12	8.35	5.11	5.84	6.72	6.65	-
Netherlands	1.19	1.28	2.34	2.46	2.51	0.98	0.60	0.32
Norway	2.17	2.40	1.30	0.71	2.13	2.03	2.17	3.55
Oman	3.94	3.20	4.07	2.91	1.25	1.01	0.07	-
Peru	2.94	1.53	3.37	3.65	2.82	3.23	3.56	3.60

Graph 2.4.1. GECF Member and Observer Countries Inflation
2009 - 2016 | Annual %



2.5 Energy Indicators

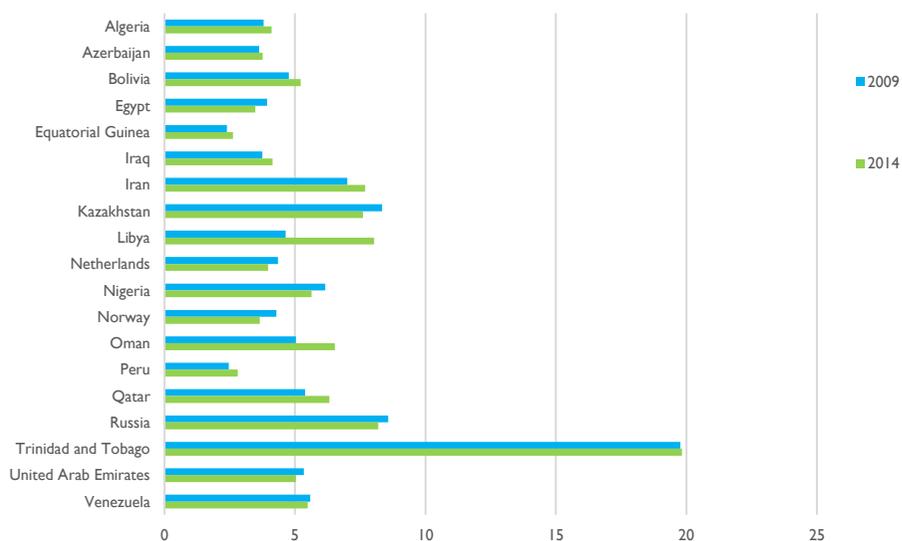
Table 2.5.1 Energy Intensity level of primary energy (MJ/\$2011 PPP GDP)

	2009	2010	2011	2012	2013	2014
Members						
Algeria	3.80	3.61	3.66	3.89	3.92	4.10
Bolivia	4.77	4.99	5.01	5.48	5.16	5.22
Egypt	3.93	3.66	3.78	3.80	3.57	3.48
Equatorial Guinea	2.40	2.53	2.61	2.61	2.52	2.63
Iran	7.01	6.58	6.46	7.20	7.48	7.69
Libya	4.64	4.76	8.27	5.09	6.63	8.03
Nigeria	6.16	6.15	6.20	6.26	5.96	5.64
Qatar	5.38	5.13	5.13	5.95	6.03	6.32
Russia	8.58	8.73	8.78	8.70	8.46	8.19
Trinidad and Tobago	19.76	21.15	20.81	20.01	20.03	19.83
United Arab Emirates	5.34	5.40	5.35	5.32	5.22	5.03
Venezuela	5.58	6.31	5.62	5.79	5.38	5.49
Observers						
Azerbaijan	3.63	3.36	3.64	3.88	3.72	3.76
Iraq	3.75	4.01	4.08	4.01	4.04	4.14
Kazakhstan	8.34	8.47	8.84	8.07	8.42	7.60
Netherlands	4.35	4.59	4.18	4.25	4.25	3.97
Norway	4.29	4.61	3.77	3.89	4.23	3.65
Oman	5.03	5.68	6.76	6.79	6.74	6.52
Peru	2.47	2.69	2.58	2.62	2.46	2.81

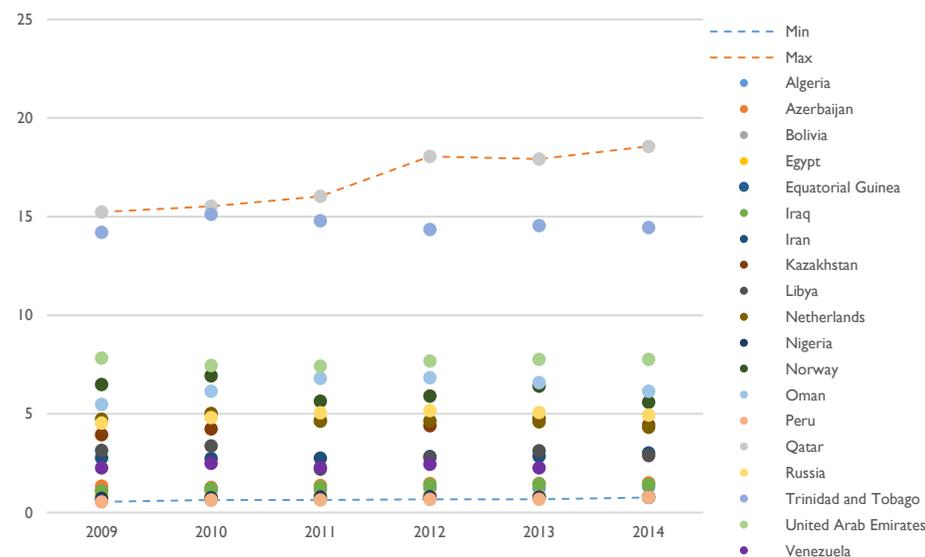
Table 2.5.2 Energy Use (kg of oil equivalent per capita)

	2009	2010	2011	2012	2013	2014
Members						
Algeria	876.15	878.31	926.00	970.80	979.19	1,007.31
Bolivia	601.31	644.50	669.82	758.00	750.28	788.80
Egypt	896.79	862.51	886.31	891.24	835.37	814.99
Equatorial Guinea	2.40	2.53	2.61	2.61	2.52	2.63
Iran	2,771.53	2,739.57	2,759.44	2,835.04	2,853.54	3,023.49
Libya	3,152.83	3,369.03	2,209.89	2,782.75	3,133.49	2,880.14
Nigeria	211.65	385.31	471.20	480.43	426.86	365.78
Qatar	15,233.92	15,531.78	16,030.61	18,055.61	17,926.72	18,562.67
Russia	4,531.29	4,819.04	5,049.43	5,167.01	5,078.63	4,942.88
Trinidad and Tobago	14,203.15	15,109.19	14,791.36	14,346.84	14,537.48	14,446.75
United Arab Emirates	7,780.64	7,406.25	7,365.55	7,639.18	7,737.70	7,756.18
Venezuela	2,274.51	2,493.47	2,280.73	2,444.10	2,268.06	-
Observers						
Azerbaijan	1,334.17	1,279.55	1,369.35	1,472.90	1,474.00	1,502.08
Iraq	1,101.99	1,219.37	1,293.56	1,399.27	1,456.66	1,413.50
Kazakhstan	3,944.32	4,234.93	4,670.99	4,399.12	4,786.67	4,434.40
Netherlands	4,722.11	5,025.32	4,636.70	4,646.26	4,600.18	4,325.52
Norway	6,484.12	6,934.59	5,649.70	5,906.14	6,415.99	5,595.65
Oman	5,486.31	6,154.42	6,800.14	6,832.83	6,583.46	6,141.77
Peru	543.48	635.49	638.44	677.97	666.43	767.69

Graph 2.5.1. GECF Member and Observer Countries Energy Intensity 2009 vs 2014 | MJ/\$2011 PPP GDP



Graph 2.5.2. GECF Member and Observer Countries Energy Use 2009 - 2016 | kg of Oil Equivalent per Capita



Section 3

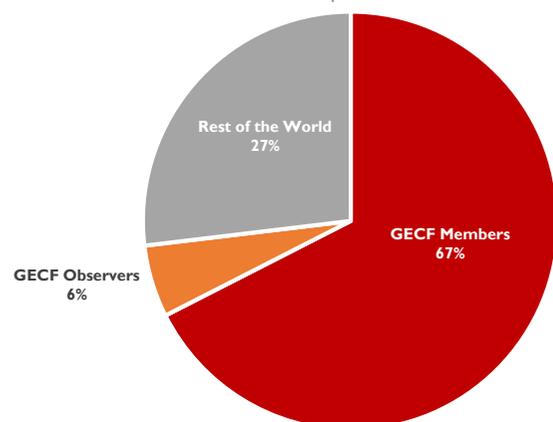
GECF in the World

3.1 Gas Proven Reserves

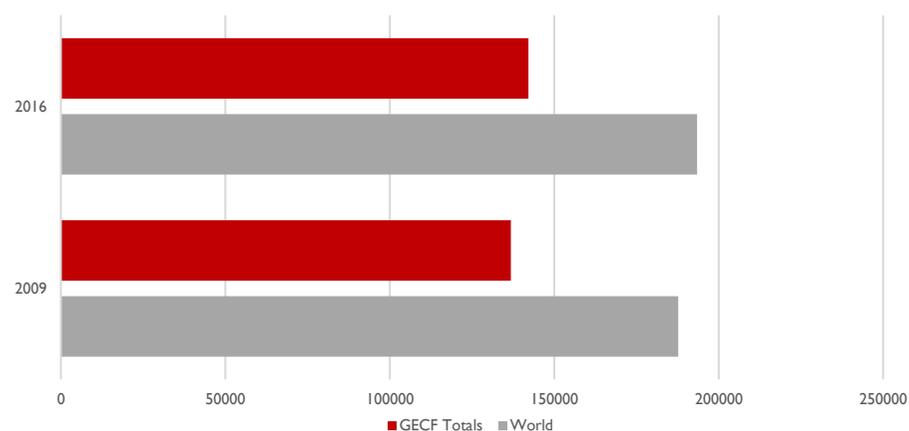
Table 3.1.1 Gas Proven Reserves of GECF Countries (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
World	187,695.40	192,104.60	195,000.00	194,149.80	195,501.80	196,148.30	193,079.70	193,428.70
GECF Totals	136,795.11	140,212.73	142,105.94	142,023.36	141,876.84	142,112.10	142,251.53	141,421.43
Members	125,489.14	129,037.18	130,851.07	130,801.07	130,789.08	131,123.68	131,332.55	130,633.75
Observers	11,305.97	11,175.55	11,254.87	11,222.29	11,087.76	10,988.42	10,918.98	10,787.68
GECF Share	72.88%	72.99%	72.87%	73.15%	72.57%	72.45%	73.68%	73.11%
Members								
Algeria	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00
Bolivia	281.47	281.47	281.47	281.47	295.91	295.91	295.91	295.91
Egypt	2,198.80	2,202.40	2,118.98	1,957.18	1,777.14	1,777.14	1,777.14	1,777.14
Equatorial Guinea	84.20	82.30	78.30	71.00	65.80	60.10	54.40	36.80
Iran	29,610.00	33,090.00	33,620.00	33,780.00	34,020.00	34,020.00	34,020.00	33,500.00
Libya	1,549.00	1,500.00	1,506.63	1,504.82	1,503.00	1,502.50	1,502.50	1,500.00
Nigeria	5,204.25	5,106.41	5,170.85	5,114.50	5,107.69	5,302.85	5,280.44	5,475.20
Qatar	25,343.80	25,124.05	25,089.03	25,008.57	24,680.03	24,530.03	24,413.55	24,300.00
Russia	45,200.00	45,200.00	46,538.00	46,605.00	46,867.50	47,148.00	47,442.50	47,464.50
Trinidad and Tobago	408.12	381.05	375.31	371.03	346.51	325.65	300.11	0.00
United Arab Emirates	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50
Venezuela	5,065.00	5,525.00	5,528.00	5,563.00	5,581.00	5,617.00	5,701.50	5,739.70
Observers								
Azerbaijan	1,310.00	1,311.33	1,311.33	1,288.67	1,283.30	1,261.00	1,192.00	1,100.00
Iraq	3,185.00	3,200.00	3,400.00	3,460.00	3,460.00	3,600.00	3,700.00	3,700.00
Kazakhstan	1,885.00	1,925.00	1,925.00	1,920.00	1,916.00	1,916.00	1,905.00	1,900.00
Netherlands	1,225.96	1,129.92	1,036.52	937.84	841.58	736.08	716.06	709.26
Norway	2,603.68	2,548.64	2,521.20	2,522.64	2,470.88	2,365.84	2,303.92	2,275.92
Oman	723.83	684.16	681.32	675.64	703.00	702.50	702.50	702.50
Peru	372.50	376.50	379.50	417.50	413.00	407.00	399.50	400.00

Graph 3.1.1. GECF Countries and Rest of the World Natural Gas Proven Reserves
2016 | Bcm



Graph 3.1.2. GECF Countries vs Rest of the World Natural Gas Proven Reserves
2009 vs 2016 | Bcm

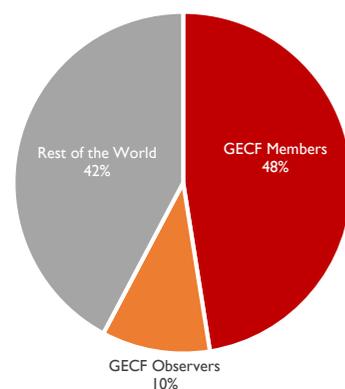


3.2 Natural Gas Production

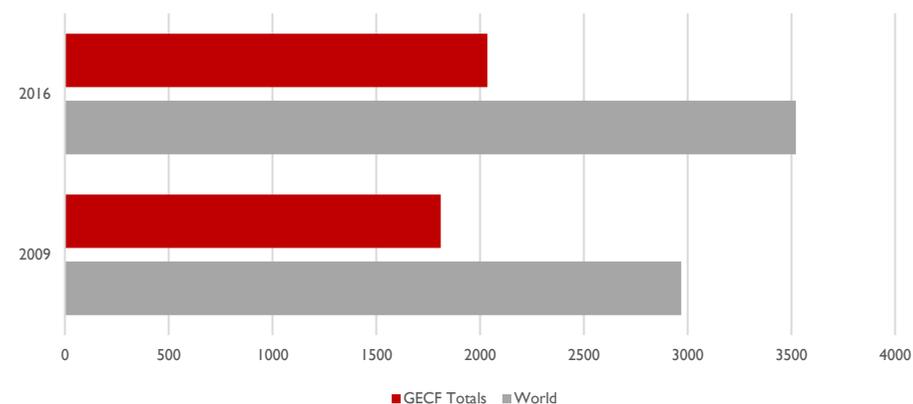
3.2.1 Natural Gas Gross Production of GECF Countries (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
World	2969.19	3194.02	3284.29	3354.01	3399.25	3452.75	3511.78	3522.28
GECF Totals	1,855.73	1,956.97	1,970.28	2,008.72	2,031.91	2,033.90	2,040.67	2,065.30
Members	1,522.38	1,601.48	1,618.67	1,628.03	1,658.71	1,667.08	1,676.07	1,701.54
Observers	333.35	355.49	351.61	380.69	373.20	366.82	364.60	363.76
GECF Share	62.50%	61.27%	59.99%	59.89%	59.78%	58.91%	58.11%	58.64%
Members								
Algeria	196.92	192.21	190.13	182.60	179.49	186.75	183.83	189.14
Bolivia	13.42	15.23	16.45	18.71	21.27	22.39	22.17	21.33
Egypt	67.56	66.33	66.46	66.02	61.36	54.10	49.34	46.71
Equatorial Guinea	8.35	8.27	8.30	8.37	9.00	8.46	8.27	8.57
Iran	209.50	229.95	223.24	228.68	229.42	245.33	257.09	277.50
Libya	29.29	30.26	13.68	23.44	22.87	20.94	22.56	22.24
Nigeria	56.72	79.85	84.01	84.85	79.63	86.33	85.22	76.78
Qatar	102.80	136.25	150.02	163.03	189.92	207.10	207.00	209.51
Russia	650.07	651.00	671.00	654.50	667.80	642.00	635.50	640.20
Trinidad and Tobago	44.40	46.18	44.77	44.40	42.85	38.10	39.59	34.00
United Arab Emirates	71.04	74.87	77.34	77.46	78.66	78.87	85.30	93.40
Venezuela	72.31	71.08	73.27	75.97	76.44	76.72	80.20	82.16
Observers								
Azerbaijan	21.86	24.37	23.88	25.00	27.52	28.10	28.00	28.11
Iraq	16.56	16.88	18.70	20.49	21.40	21.85	23.46	22.76
Kazakhstan	33.39	35.09	36.61	37.23	38.99	40.14	42.35	42.84
Netherlands	72.66	82.84	75.51	74.94	80.70	66.54	50.16	46.40
Norway	145.83	150.08	147.68	161.24	151.24	155.98	164.42	165.51
Oman	32.18	32.34	34.73	45.95	37.15	35.81	38.21	39.16
Peru	10.87	13.89	14.50	15.84	16.20	18.40	18.00	18.98

Graph 3.2.1. GECF Countries and Rest of the World
Natural Gas Gross Production
2016 | Bcm



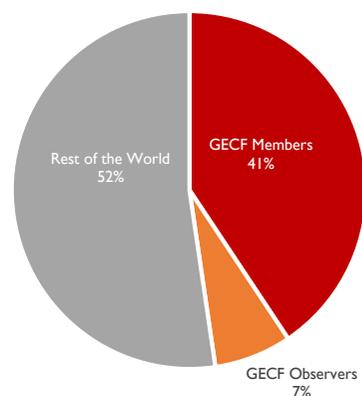
Graph 3.2.2. GECF Countries vs The Worlds
Natural Gas Gross Production
2009 vs 2016 | Bcm



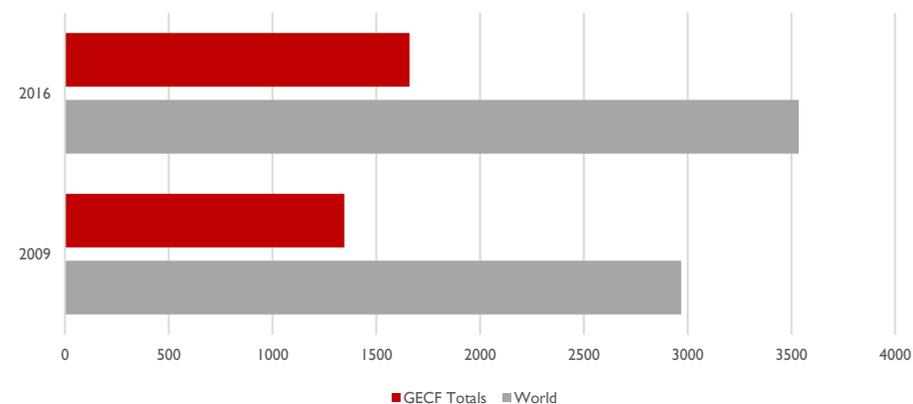
3.2.2 Natural Gas Marketed Production of GECF Countries (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
World	2,969.02	3,193.22	3,286.89	3,353.26	3,401.30	3,458.53	3,520.06	3,535.19
GECF Totals	1,397.19	1,551.62	1,565.15	1,612.61	1,642.64	1,608.35	1,628.21	1,684.75
Members	1,156.32	1,293.11	1,316.49	1,337.28	1,375.30	1,352.84	1,377.63	1,435.66
Observers	240.87	258.51	248.66	275.33	267.34	255.51	250.58	249.09
GECF Share	47.06%	48.59%	47.62%	48.09%	48.29%	46.50%	46.26%	47.66%
Members								
Algeria	83.53	85.46	83.37	86.06	82.43	83.30	84.58	94.95
Bolivia	12.34	14.47	15.71	17.95	20.48	21.65	21.49	20.61
Egypt	62.69	61.32	61.26	60.80	56.13	48.79	44.26	41.93
Equatorial Guinea	6.27	6.54	6.88	6.37	6.55	6.16	6.10	6.24
Iran	190.78	197.18	191.32	199.90	199.81	205.86	228.93	245.72
Libya	15.90	16.81	9.78	16.07	16.99	16.59	15.15	15.74
Nigeria	23.21	36.19	41.32	42.57	38.41	43.84	45.15	41.99
Qatar	89.30	131.19	145.27	157.05	183.82	201.13	201.13	203.44
Russia	564.90	633.55	650.57	636.23	656.06	615.52	609.40	637.10
Trinidad and Tobago	39.60	41.15	39.69	39.34	40.29	35.66	36.94	31.81
United Arab Emirates	47.28	49.52	50.55	52.21	52.51	52.45	58.50	67.23
Venezuela	20.52	19.73	20.77	22.73	21.82	21.88	26.00	28.90
Observers								
Azerbaijan	15.06	15.37	15.08	15.85	16.45	17.55	17.80	17.50
Iraq	1.13	1.30	0.89	0.63	1.19	0.90	1.00	1.10
Kazakhstan	17.39	17.59	18.61	18.92	19.34	19.79	20.65	20.73
Netherlands	72.66	82.84	75.51	74.94	80.70	66.54	50.16	46.40
Norway	105.26	108.05	102.21	115.79	109.30	109.86	118.15	118.98
Oman	25.88	26.14	24.98	37.32	28.16	27.96	30.32	30.90
Peru	3.49	7.22	11.38	11.88	12.20	12.91	12.50	13.48

Graph 3.2.3. GECF Member, Observer Countries and Rest of the World Gas Marketed Production 2016 | Bcm



Graph 3.2.4. GECF Countries vs The World's Natural Gas Marketed Production 2009 vs 2016 | Bcm

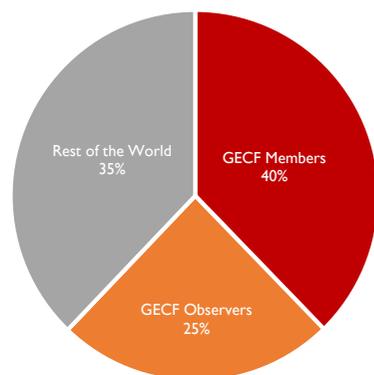


3.3 Natural Gas Exports

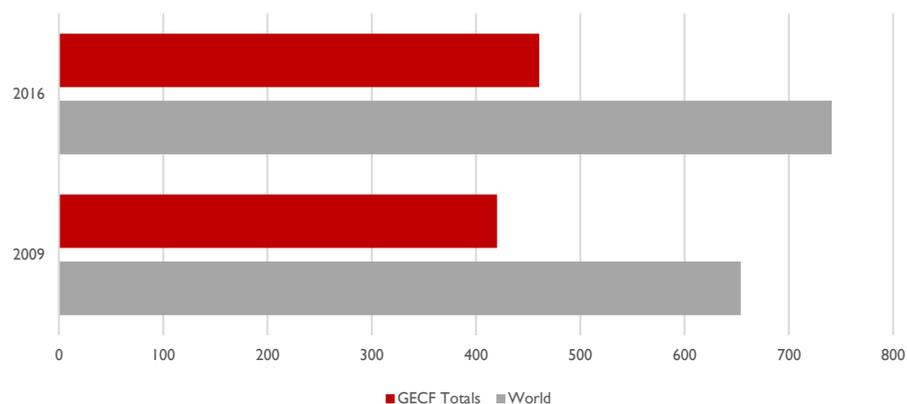
3.3.1 Natural Gas Pipelines Exports of GECF Countries (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
World	653.89	692.56	708.32	705.32	723.25	688.36	713.79	741.23
GECF Totals	419.96	429.89	445.31	452.59	466.06	429.09	442.75	479.37
Members	258.70	273.75	284.35	274.15	289.19	262.79	273.29	298.17
Observers	161.26	156.14	160.96	178.44	176.87	166.30	169.46	181.20
GECF Share	64.22%	62.07%	62.87%	64.17%	64.44%	62.33%	62.03%	64.67%
Members								
Algeria	33.55	37.85	35.72	37.33	32.23	27.08	27.03	38.95
Bolivia	9.87	11.70	12.62	14.76	17.12	17.80	17.52	16.08
Egypt	5.45	5.46	1.79	0.68	0.88	0.23	0.24	0.00
Equatorial Guinea	-	-	-	-	-	-	-	-
Iran	5.80	8.42	9.10	9.21	9.61	9.47	8.62	8.65
Libya	9.17	9.41	2.32	6.35	5.55	6.42	7.03	5.77
Nigeria	-	0.12	0.83	0.40	0.60	0.60	0.60	0.12
Qatar	18.75	19.15	19.20	19.22	19.90	20.09	19.75	20.00
Russia	176.11	181.64	202.77	186.20	203.30	181.10	192.50	208.60
Trinidad and Tobago	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-
Observers								
Azerbaijan	6.50	5.95	6.68	6.74	7.61	7.74	7.71	8.44
Iraq	-	-	-	-	-	-	-	-
Kazakhstan	9.89	11.79	11.37	11.17	11.62	11.12	11.80	12.19
Netherlands	50.03	42.33	50.41	54.51	56.69	47.91	42.12	51.76
Norway	94.84	96.07	92.50	106.02	100.95	99.53	107.83	108.81
Oman	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-

Graph 3.3.1. GECF countries and Rest of the World
Natural Gas Pipeline Exports
2016 | Bcm



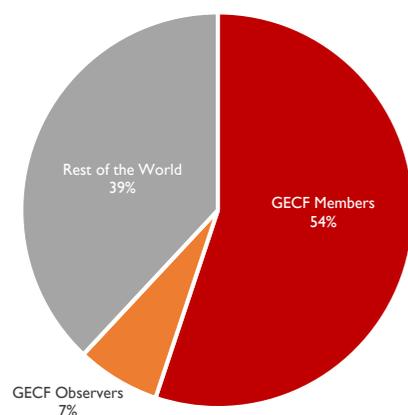
Graph 3.3.2. GECF Countries vs The World
Natural Gas Pipeline Exports
2009 vs 2016 | Bcm



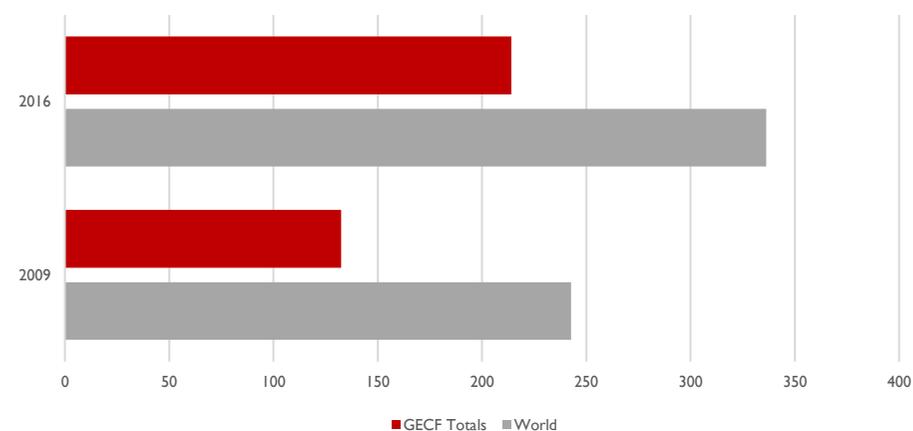
3.3.2 LNG Exports of GECF Countries (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
World	242.78	295.99	324.22	318.48	316.42	322.54	328.67	336.20
GECF Totals	154.79	191.65	219.39	220.03	214.43	215.31	213.50	206.25
Members	140.06	173.79	197.99	198.53	192.85	193.61	190.22	183.17
Observers	14.73	17.86	21.40	21.50	21.58	21.70	23.28	23.08
GECF Share	63.76%	64.75%	67.67%	69.09%	67.76%	66.75%	64.96%	61.35%
Members								
Algeria	20.86	19.51	16.30	14.52	14.48	17.11	16.39	15.03
Bolivia	-	-	-	-	-	-	-	-
Egypt	16.59	11.94	11.19	8.26	4.87	0.44	0.00	0.99
Equatorial Guinea	4.72	5.00	5.28	4.85	5.10	4.90	5.05	4.50
Iran	-	-	-	-	-	-	-	-
Libya	0.72	0.34	0.09	-	-	-	-	-
Nigeria	15.75	23.66	25.94	28.27	24.54	26.78	26.70	25.02
Qatar	49.44	75.75	102.60	105.40	106.87	106.83	106.40	104.40
Russia	5.30	10.00	10.70	10.90	10.80	10.70	10.80	10.90
Trinidad and Tobago	19.76	19.77	18.32	18.96	19.00	18.94	16.90	14.27
United Arab Emirates	6.92	7.82	7.57	7.37	7.19	7.91	7.98	8.06
Venezuela	-	-	-	-	-	-	-	-
Observers								
Azerbaijan	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kazakhstan	-	-	-	-	-	-	-	-
Netherlands	0.00	0.00	0.00	0.00	0.21	0.53	1.04	0.99
Norway	3.18	4.65	4.25	4.80	3.89	5.06	5.95	6.12
Oman	11.55	11.43	11.78	11.38	12.09	10.64	11.37	10.81
Peru	0.00	1.78	5.37	5.32	5.39	5.47	4.92	5.16

Graph 3.3.3. GECF Countries and Rest of the World LNG Exports
2016 | Bcm



Graph 3.3.4. GECF Countries vs The World's LNG Exports
2009 vs 2016 | Bcm

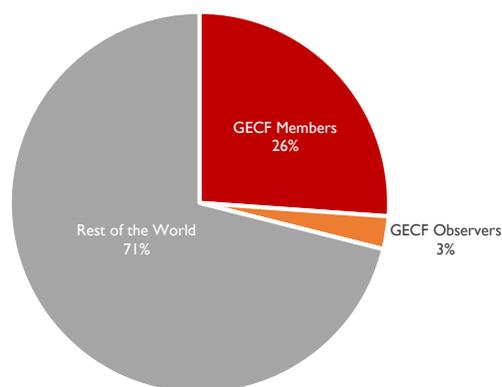


3.4 Natural Gas Domestic Consumption

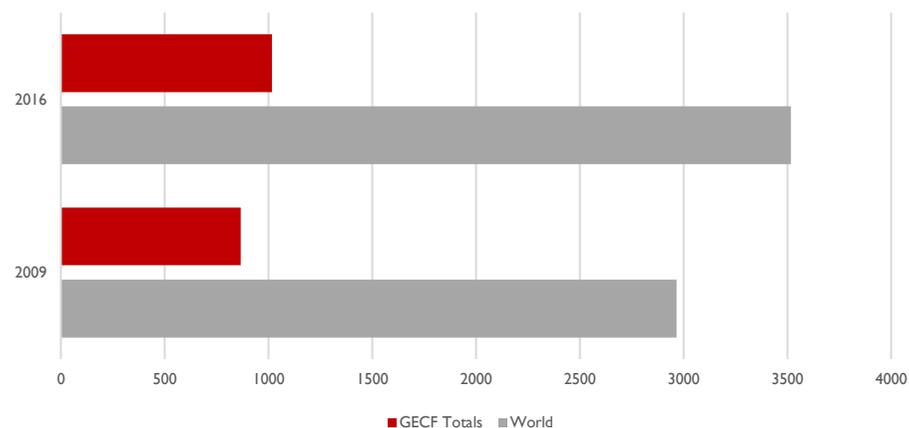
3.4.1 Natural Gas Domestic Consumption of GECF Countries (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
World	2,967.02	3,190.11	3,255.75	3,333.02	3,387.09	3,412.68	3,473.33	3,517.01
GECF Totals	900.64	928.16	922.91	1,545.19	954.78	973.88	990.90	1,018.27
Members	814.47	829.00	834.42	1,455.52	862.59	880.59	895.68	920.57
Observers	86.17	99.16	88.49	89.67	92.19	93.29	95.22	97.70
GECF Share	30.35%	29.09%	28.35%	46.36%	28.19%	28.54%	28.53%	28.95%
Members								
Algeria	25.90	27.21	28.80	32.21	33.41	36.19	40.00	40.14
Bolivia	2.45	2.76	3.08	3.18	3.38	3.78	3.93	4.45
Egypt	42.54	45.15	49.62	52.60	51.42	48.02	47.80	51.28
Equatorial Guinea	1.55	1.54	1.60	1.53	1.46	1.27	1.05	1.74
Iran	146.99	148.78	151.87	154.03	152.07	166.46	179.49	188.81
Libya	9.73	9.95	7.46	9.71	11.44	10.17	8.69	9.17
Nigeria	3.56	5.00	6.16	7.33	7.70	7.73	11.11	8.88
Qatar	20.80	29.80	19.60	23.40	38.19	40.52	43.90	41.70
Russia	461.32	459.83	464.13	460.00	456.80	458.40	444.30	456.70
Trinidad and Tobago	17.00	17.28	17.04	16.88	17.38	20.14	16.64	15.05
United Arab Emirates	59.10	60.80	63.20	681.32	66.90	65.90	73.80	76.60
Venezuela	23.53	20.89	21.87	23.29	22.44	22.01	24.96	26.05
Observers								
Azerbaijan	8.90	9.67	8.67	9.36	9.27	10.25	10.60	9.58
Iraq	1.13	1.30	0.89	0.63	1.19	0.90	1.00	1.10
Kazakhstan	9.24	10.57	11.80	11.60	12.35	13.33	13.26	13.45
Netherlands	43.06	49.80	43.20	40.70	41.26	35.70	35.85	37.70
Norway	5.63	5.04	4.60	4.48	4.94	5.46	4.98	5.26
Oman	14.72	17.58	13.72	16.49	16.67	20.41	22.09	22.76
Peru	3.49	5.20	5.61	6.41	6.51	7.24	7.44	7.85

Graph 3.4.1. GECF Member, Observer Countries and Rest of the World Gas Domestic Consumption 2016 | Bcm



Graph 3.4.2. GECF Countries vs The World's Natural Gas Domestic Consumption 2009 vs 2016 | Bcm



3.5 Liquefaction Plants

3.5.1 Liquefaction Plants of GECF Countries

Country	Plant	Liquefaction (No. of Trains)	Total Capacity (MPTA)	Status	Start Year	Owner(s)	Operator(s)
Algeria	GL1Z	6	7.8	Operational	1978	Sonatrach	Sonatrach
	GL2Z	6	8.0	Operational	1981	Sonatrach	Sonatrach
	GL1K	1 Mega	4.5	Operational	2013	Sonatrach	Sonatrach
	GL3Z	1 Mega	4.7	Operational	2014	Sonatrach	Sonatrach
Bolivia	Rio Grande LNG	1	0.08	Operational	2014	YPFB	YPFB
Egypt	IDKU Egyptian LNG	2	7.2	Operational	2005	Shell, EGAS, EGBC, Petronas, GDF	OPCO
	Damietta	1	4.8	Offline	2004	EGAS, EGBC, Union Fenosa Gas	SEGas
Equatorial Guinea	Equatorial Guinea (EG) LNG	1	3.7	Operational	2007	Marathon, Sonagas, Mitsui, Marubeni	Marathon Oil
	Fortuna FLNG	1	2.2	Planned	2020	Golar	Golar
Iran	Iran LNG	2	6.7	Under Construction	2018	NIOC	Iran LNG
	Iran FLNG	1	0.7	Planned	2018	NIOC	NIGC
Libya	Marsa al Brega	1	3.2	Offline	1960	Libya NOC	Sirte Oil Company
Nigeria	NLNG 6	-	4.0	Operational	2007	Nigeria LNG	Nigeria LNG
	NLNG Base	-	7.0	Operational	1999	Nigeria LNG	Nigeria LNG
	NLNG Expansion	-	3.3	Operational	2002	Nigeria LNG	Nigeria LNG
	NLNG Plus	-	8.1	Operational	2006	Nigeria LNG	Nigeria LNG
Qatar	Qatargas 1	3	9.7	Operational	1996	Qatargas	Qatargas
	Qatargas 2	2	15.8	Operational	2009	Qatargas	Qatargas
	Qatargas 3	1	7.9	Operational	2010	Qatargas	Qatargas
	Qatargas 4	1	7.9	Operational	2011	Qatargas	Qatargas
	RasGas 1	2	6.6	Operational	1999	RasGas	RasGas
	RasGas 2	3	14.1	Operational	2004	Ras Gas	Ras Gas
	Ras Laffan 3	2	15.8	Operational	2009	Ras Gas	Ras Laffan
Russia	Sakhalin 2	2	10.8	Operational	2009	-	Sakhalin Energy
	Sakhalin 2	1	5.0	Announced	2021	-	Sakhalin Energy
	Yamal LNG	1	5.5	Under Construction	2017	-	Novatek
	Yamal LNG	1	5.5	Under Construction	2018	-	Novatek
	Yamal LNG	1	5.5	Under Construction	2019	-	Novatek
	Pechora LNG	1	2.6	Announced	2024	-	CH-Oil & Gas (Altech Group)
	Russia Far East	1	5.0	Announced	2025	-	Rosneft
	Leningrad LNG	1	6.1	Planned	2021	-	Gazprom
Trinidad and Tobago	Atlantic LNG	4	20.0	Operational	1999	NGC Trinidad and Tobago	Atlantic LNG
					2002		
UAE	Das Island	3	5.6	Operational	2003	ADNOC, Mitsui, BP, Total	ADGAS
					2005		
					1977		
Oman	Qalhat	3	10.4	Operational	1977	-	Oman LNG
					1994		
Peru	Peru LNG Plant	1	4.5	Operational	2010	Peru LNG Consortium	Hunt Oil Company

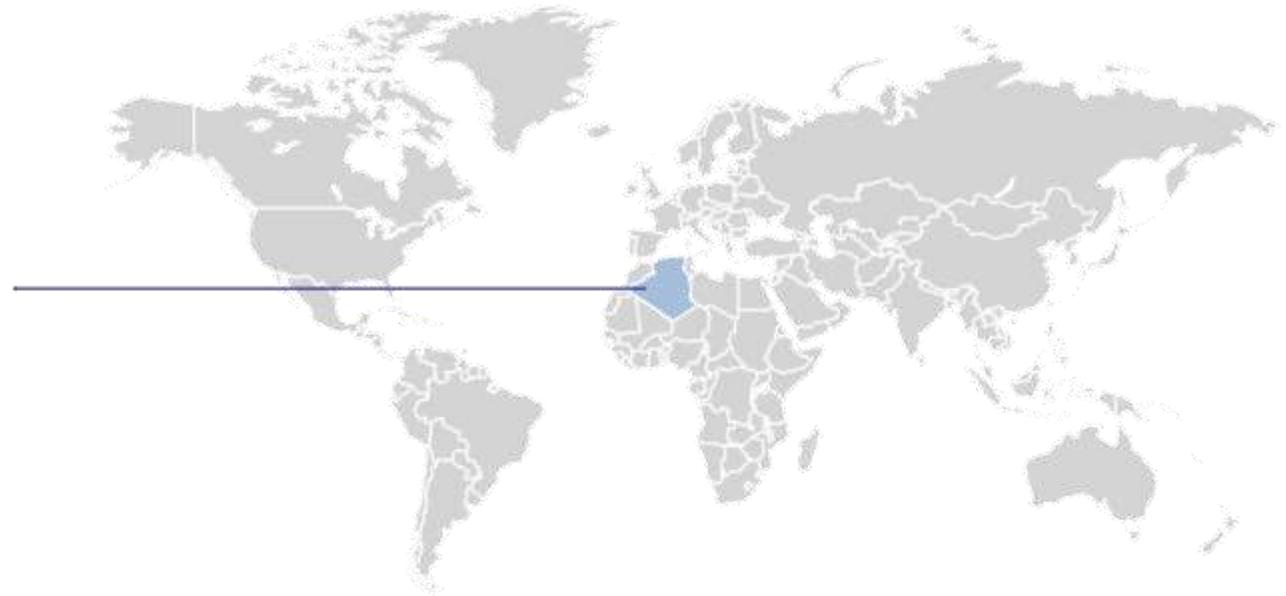
Section 4

GECF Member Countries



People's Democratic Republic of

ALGERIA



Population:
40 800 000



Capital:
Algiers



Continent:
Africa



Currency:
Algerian Dinar



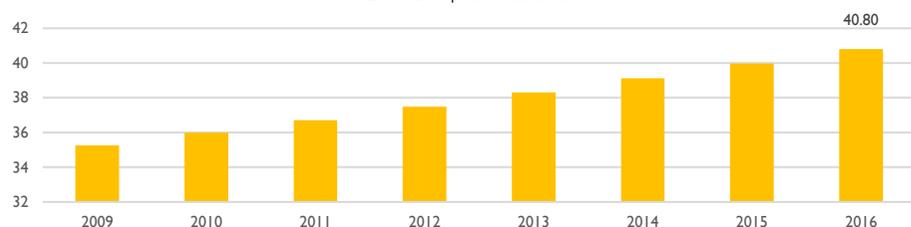
Time Zone:
Central European
GMT+1

4.1.1 Macroeconomics

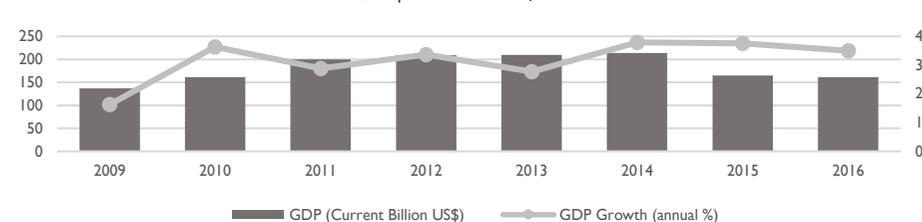
4.1.1.1 Algeria Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	35,268,000	35,978,000	36,717,000	37,495,000	38,297,000	39,114,000	39,963,000	40,800,000
GDP (Current Billion US\$)	137.21	161.20	200.20	209.05	209.80	214.00	165.10	161.15
GDP Growth (annual %)	1.63	3.63	2.89	3.37	2.77	3.79	3.76	3.50
GDP per capita (Current US\$)	3,890.53	4,480.52	5,452.52	5,575.34	5,478.24	5,471.19	4,131.32	3,949.71
Exports of Goods and Services (% of GDP)	35.37	38.44	38.79	36.89	33.22	30.46	20.90	18.02
Exports of Goods and Services (Current Billion US\$)	48.53	61.97	77.65	77.12	69.69	65.19	34.51	29.04
Imports of Goods and Services (Current Billion US\$)	49.33	50.65	57.38	59.62	63.78	68.27	52.60	49.40
Imports of Goods and Services (% of GDP)	35.95	31.42	28.66	28.52	30.40	31.90	36.72	33.33
Inflation consumer prices (annual %)	5.70	3.90	4.50	8.90	3.30	2.90	4.80	6.40
Energy use (kg of oil equivalent per capita)	876.15	878.31	926.00	970.80	979.19	1,007.31	1,063.48	1,051.47

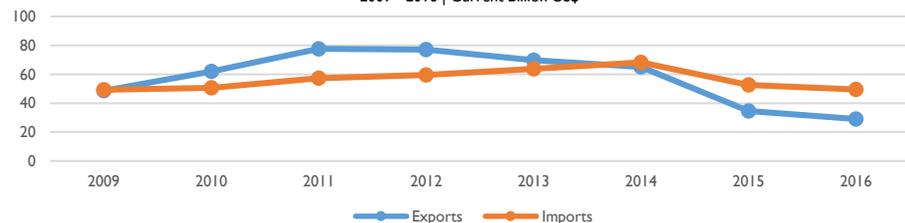
Graph 4.1.1.1. Algeria: Population
2009 - 2016 | Millions Inhabitants



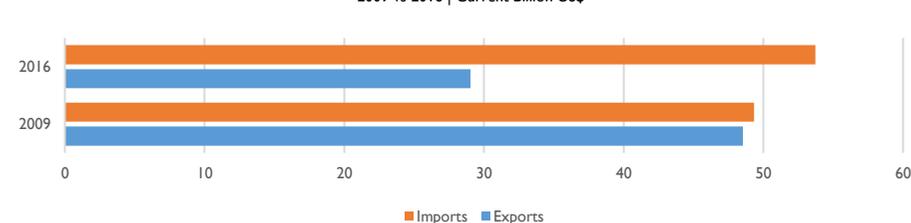
Graph 4.1.1.2. Algeria: GDP and GDP Growth
2009 - 2016 | Current Billion US\$ and Annual %



Graph 4.1.1.3. Algeria: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



Graph 4.1.1.4. Algeria: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.1.1.5. Algeria: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.1.1.6. Algeria: Energy Use
2009 - 2016 | kg of Oil Equivalent per Capita



4.1.2 Reserves and Production

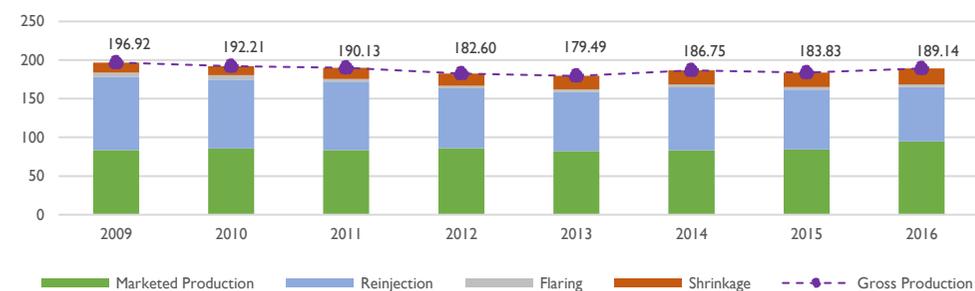
Table 4.1.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00	4,504.00

Table 4.1.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	196.92	192.21	190.13	182.60	179.49	186.75	183.83	189.14
Marketed Production	83.53	85.46	83.37	86.06	82.43	83.30	84.58	94.95
Reinjection	95.00	89.10	88.75	77.40	76.20	81.21	77.05	70.12
Flaring	5.50	5.80	3.60	3.50	3.70	3.95	3.51	3.26
Shrinkage	12.89	11.85	14.41	15.65	17.16	18.30	18.68	20.81

Graph 4.1.2.1. Algeria: Natural Gas Production
2009 - 2016 | Bcm



4.1.3 Domestic Consumption and Trade

Table 4.1.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Residential	4.57	4.35	5.02	5.96	6.62	7.07	7.90	8.13
Industrial	2.47	3.54	3.55	3.52	3.68	3.83	4.04	4.21
Power Generation	11.34	12.07	13.04	14.11	14.45	15.75	17.72	17.45
Transportation	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Petrochemical (feedstock)	1.39	1.50	1.48	2.06	1.82	2.83	3.66	4.00
Refineries	0.47	0.55	0.49	0.61	0.73	0.70	0.72	0.77
Others	5.65	5.20	5.22	5.94	6.11	6.00	5.95	5.57
Totals	25.90	27.21	28.80	32.21	33.41	36.19	40.00	40.14

Graph 4.1.3.1. Algeria: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

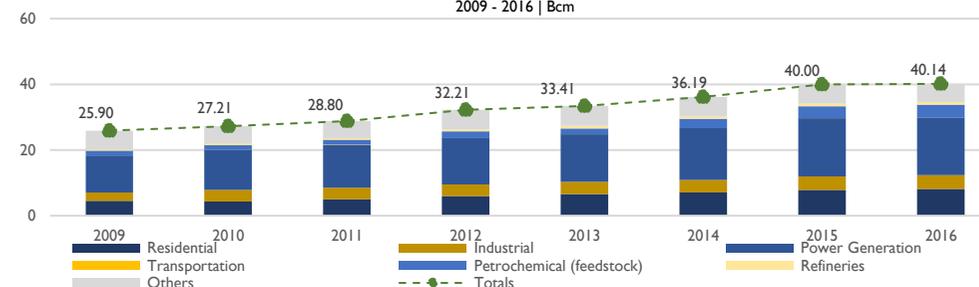
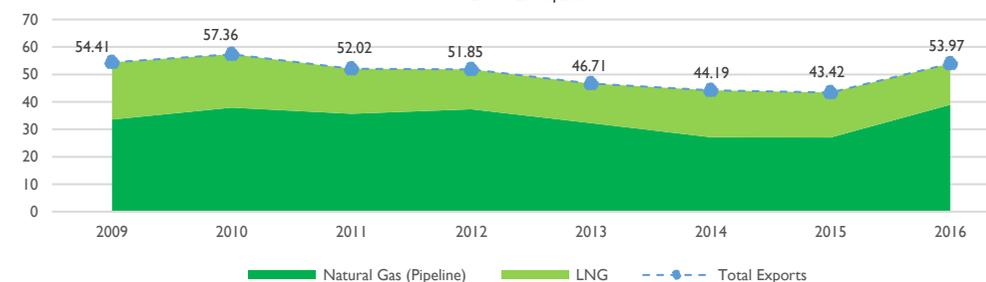


Table 4.1.3.2 Trade: Natural Gas Exports

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	33.55	37.85	35.72	37.33	32.23	27.08	27.03	38.95
LNG								
Bcm*	20.86	19.51	16.30	14.52	14.48	17.11	16.39	15.03
MMT	15.34	14.35	11.98	10.68	10.64	12.58	12.05	11.05
Totals (Bcm)	54.41	57.36	52.02	51.85	46.71	44.19	43.42	53.97

* Gas equivalent

Graph 4.1.3.2. Algeria: Natural Gas Exports
2009 - 2016 | Bcm



4.1.4 Transport and Plants

4.1.4.1 Natural Gas Exports Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Enrico Mattei	Algeria	Italy	Tunisia	Sonatrach, Sotugat, ENI	Sonatrach, Sergas, T MPC	Operational	32.0	Export	1983	2,475	47/20/42/48
Pedro Duran Farell	Algeria	Spain-Portugal	Morocco	Sonatrach, Enagas, Transgas	Sonatrach, Metragaz, Enagás Transgas	Operational	12.0	Export	1996	1,620	47/28/32/22
Medgaz	Algeria	Spain	Med Sea	Sonatrach, CEPSA Iberdrola, Endesa, GDF Suez	Sociedad para el Estudio y Promocion del Gasoducto Argelia-Europa	Operational	8.0	Export	2011	210	48/24
Trans-Saharan Gas	Algeria	Nigeria	Niger	Sonatrach, NNPC	-	Planned	20.0 – 30.0	Export	-	4,128	48/56

4.1.4.2 LNG Carrier Fleet

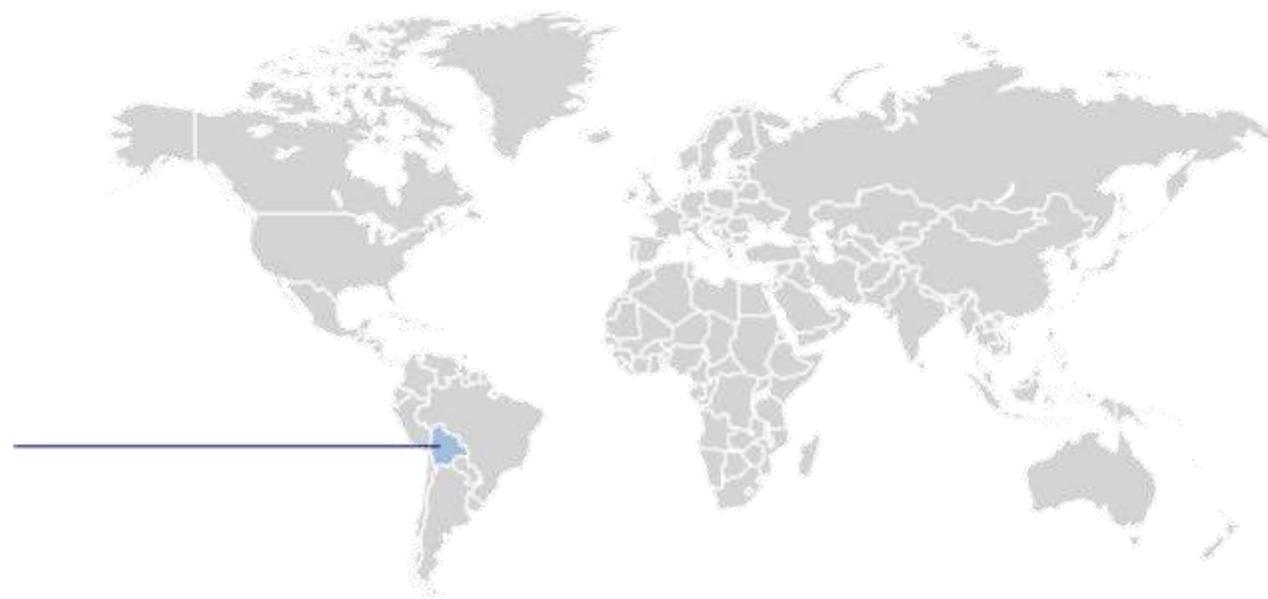
Tanker	Ownership	Year Built	Status	Size	
				(1000 Scm)	(1000 Tons)
Bachir Chihani	Sonatrach Group	1979	Operational	129.70	58.95
Larbi Ben M'hidi	Sonatrach Group	1977	Operational	126.13	57.33
Abane Ramdane	Sonatrach Group	1981	Operational	126.13	57.33
Didouche Mourad	Sonatrach Group	1980	Operational	126.13	57.33
Berge Arzew	Sonatrach/Bergessen	2004	Operational	138.00	62.73
Lalla Ftama N'soumer	Sonatrach/Mol Itochu	2004	Operational	145.00	65.91
Cheikh El-Mokrani	Sonatrach/Mol Itochu	2007	Operational	75.50	34.32
Cheikh Bouamama	Sonatrach/Mol Itochu	2008	Operational	75.00	34.09
Total				941.59	428.00

4.1.4.3 Liquefaction Plants

LNG Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
GL1Z	6	7.8	Operational	1978	Sonatrach	Sonatrach
GL2Z	6	8.0	Operational	1981	Sonatrach	Sonatrach
GL1K	1 Mega	4.5	Operational	2013	Sonatrach	Sonatrach
GL3Z	1 Mega	4.7	Operational	2014	Sonatrach	Sonatrach



Plurinational State of
BOLIVIA



Population:
10 887 882



Capital:
Sucre



Continent:
South America



Currency:
Bolivian Boliviano



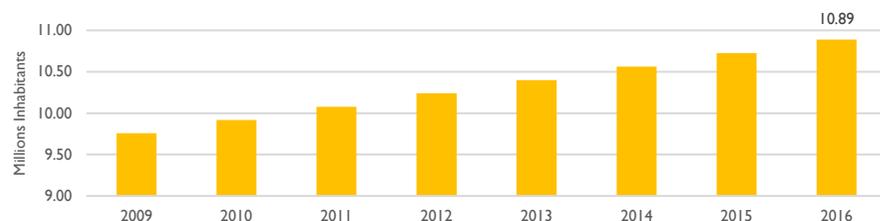
Time Zone:
Bolivia
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4.2.1 Macroeconomics

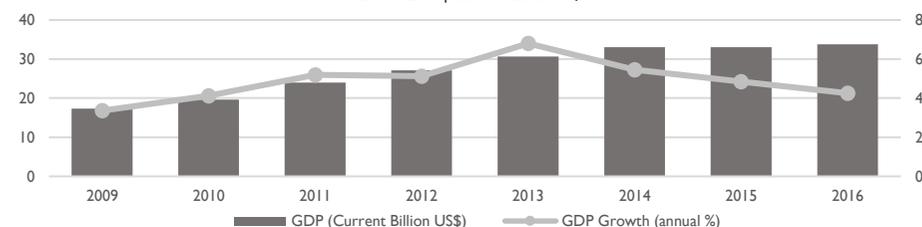
4.2.1.1 Bolivia Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	9,758,748	9,918,242	10,078,343	10,239,004	10,400,264	10,562,159	10,724,705	10,887,882
GDP (Current Billion US\$)	17.34	19.65	23.96	27.08	30.66	33.00	33.00	33.81
GDP Growth (annual %)	3.36	4.13	5.20	5.12	6.80	5.46	4.85	4.26
GDP per capita (Current US\$)	1,776.87	1,981.16	2,377.68	2,645.23	2,947.94	3,124.00	3,077.03	3,104.96
Exports of Goods and Services (% of GDP)	35.72	41.19	44.09	47.17	44.09	43.29	30.87	24.59
Exports of Goods and Services (Current Billion US\$)	6.19	8.09	10.57	12.77	13.52	14.29	10.19	8.31
Imports of Goods and Services (Current Billion US\$)	5.71	6.74	9.20	10.23	11.39	13.85	12.23	10.83
Imports of Goods and Services (% of GDP)	32.90	34.32	38.39	37.78	37.14	41.97	37.06	32.04
Inflation consumer prices (annual %)	3.35	2.50	9.81	4.59	5.72	5.78	4.06	3.63
Energy use (kg of oil equivalent per capita)	601.31	644.50	669.82	758.00	750.28	788.80	-	-

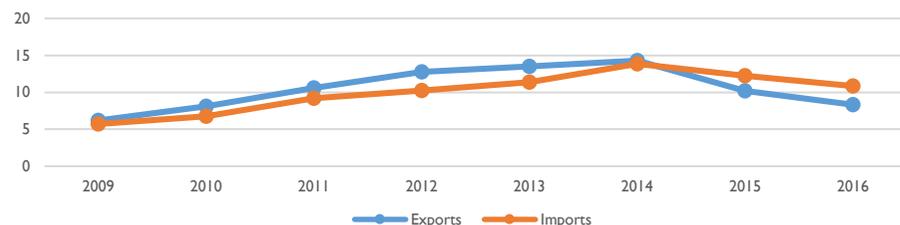
Graph 4.2.1.1. Bolivia: Population
2009 - 2016 | Millions Inhabitants



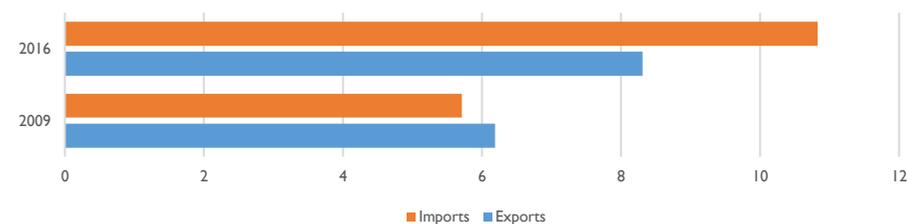
Graph 4.2.1.2. Bolivia: GDP
2009 - 2016 | Current Billion US\$



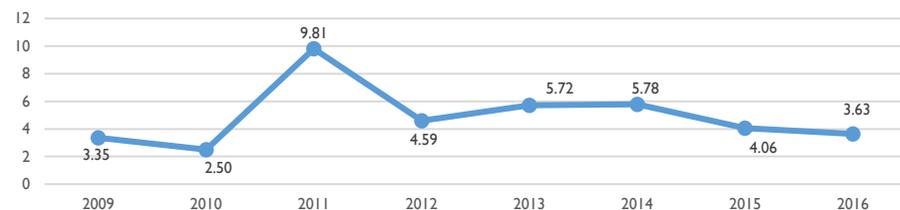
Graph 4.2.1.3. Bolivia: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



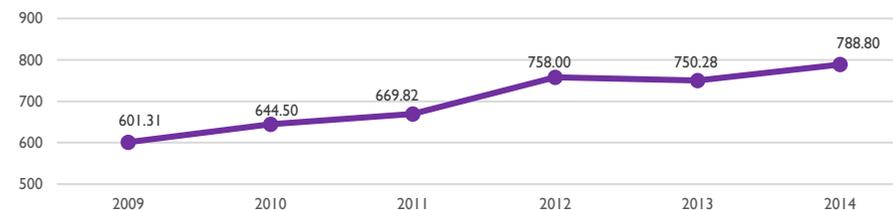
Graph 4.2.1.4. Bolivia: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.2.1.5. Bolivia: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.2.1.6. Bolivia: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.2.2 Reserves and Production

Table 4.2.2.1 Proven Gas Reserves* (Bcm)

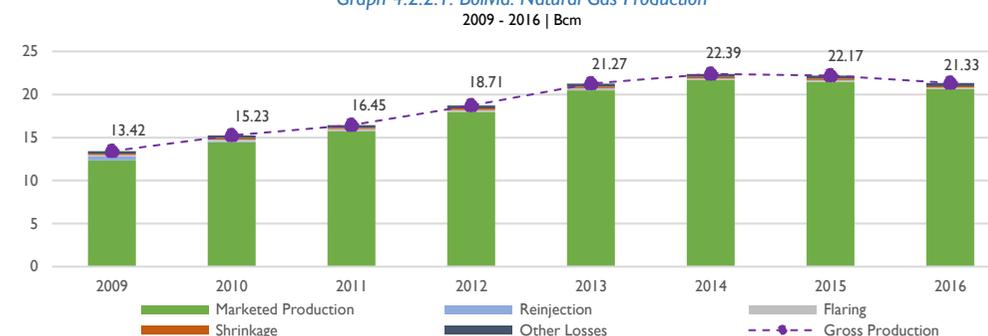
	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	281.47	281.47	281.47	281.47	295.91	295.91	295.91	295.91

*Certified Proven Natural Gas Reserves in 2009 and 2013

Table 4.2.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	13.42	15.23	16.45	18.71	21.27	22.39	22.17	21.33
Marketed Production	12.34	14.47	15.71	17.95	20.48	21.65	21.49	20.61
Reinjection	0.49	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Flaring	0.14	0.20	0.26	0.23	0.25	0.20	0.18	0.19
Shrinkage	0.16	0.17	0.18	0.20	0.21	0.20	0.19	0.17
Other Losses	0.28	0.29	0.29	0.33	0.34	0.33	0.32	0.36

Graph 4.2.2.1. Bolivia: Natural Gas Production



4.2.3 Domestic Consumption and Trade

Table 4.2.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Residential	0.07	0.08	0.10	0.12	0.14	0.16	0.18	0.20
Industrial	0.63	0.65	0.73	0.78	0.86	0.92	0.93	0.93
Power Generation	1.17	1.39	1.54	1.53	1.50	1.74	1.75	2.14
Transportation	0.40	0.45	0.52	0.57	0.64	0.67	0.69	0.70
Refineries	0.10	0.10	0.10	0.09	0.09	0.10	0.13	0.12
Others	0.08	0.09	0.09	0.09	0.14	0.18	0.27	0.37
Totals	2.45	2.76	3.08	3.18	3.38	3.78	3.93	4.45

Graph 4.2.3.1. Bolivia: Natural Gas Domestic Consumption

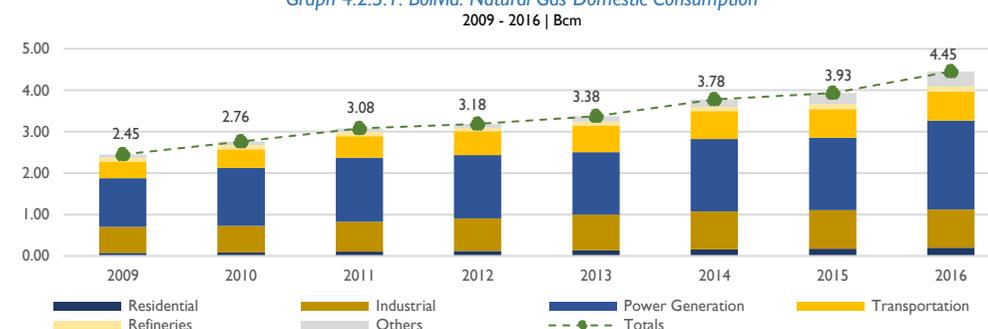
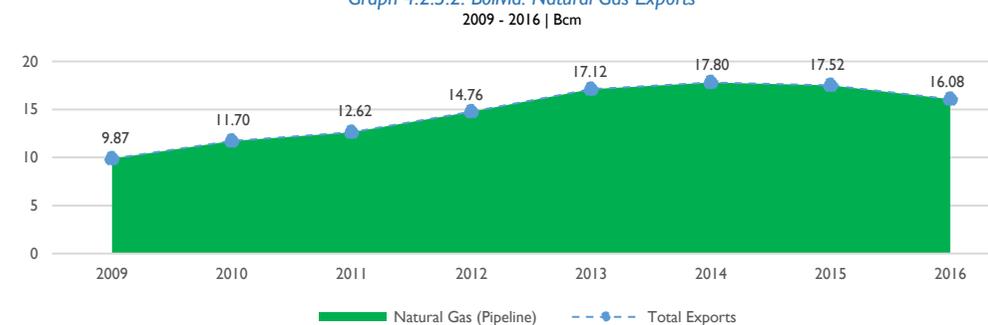


Table 4.2.3.2 Trade: Natural Gas Exports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	9.87	11.70	12.62	14.76	17.12	17.80	17.52	16.08

Graph 4.2.3.2. Bolivia: Natural Gas Exports



4.2.4 Transport and Plants

4.2.4.1 Natural Gas Exports Pipelines

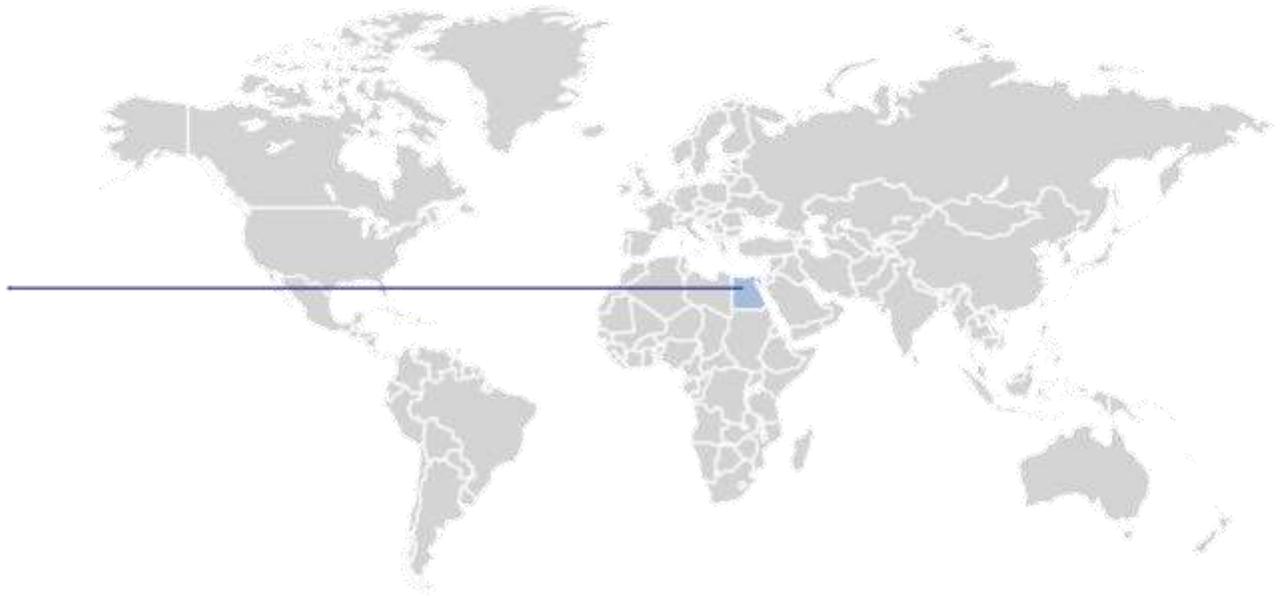
Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
GASBOL	Bolivia	Brazil	-	Gas TransBoliviano	Gas TransBoliviano	Operational	12.0	Export	1999	557	32
GIJA (Juana Azurduy)	Bolivia	Argentina	-	YPFB Transporte	YPFB Transporte	Operational	10.2	Export	2011	13	32
GOB	Bolivia	Brazil	-	GasOriente Boliviano	GasOriente Boliviano	Operational	1.5	Export	2002	362	18

4.2.4.2 Domestic Gas Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Rio Grande (Small scale)	1	0.08	Operational	2014	YPFB	YPFB



Arab Republic of
EGYPT



Population:
95 688 681



Capital:
Cairo



Continent:
Africa



Currency:
Egyptian Pound



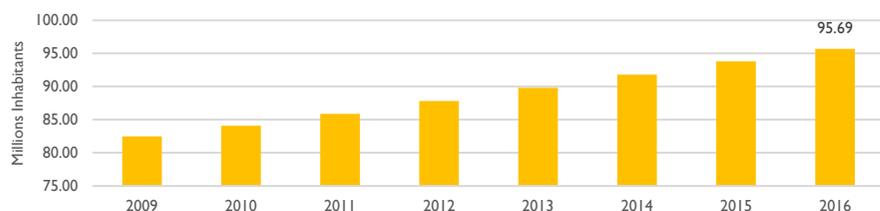
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4.3.1 Macroeconomics

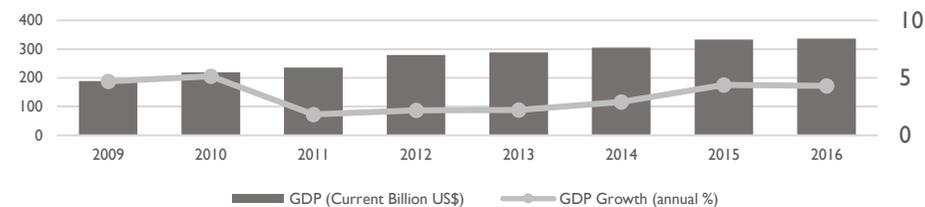
4.3.1.1 Egypt Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	82,465,022	84,107,606	85,897,561	87,813,257	89,807,433	91,812,566	93,778,172	95,688,681
GDP (Current Billion US\$)	188.98	218.89	236.00	279.37	288.59	305.53	332.70	336.30
GDP Growth (annual %)	4.69	5.14	1.82	2.19	2.20	2.90	4.40	4.30
GDP per capita (Current US\$)	2,291.67	2,602.48	2,747.48	3,181.44	3,213.39	3,327.75	3,547.71	3,514.49
Exports of Goods and Services (% of GDP)	24.96	21.35	20.57	16.40	17.02	14.24	13.18	10.35
Exports of Goods and Services (Current Billion US\$)	47.16	46.73	48.54	45.81	49.11	43.52	43.86	34.82
Imports of Goods and Services (Current Billion US\$)	59.71	58.20	58.26	67.93	67.40	69.28	72.07	65.92
Imports of Goods and Services (% of GDP)	31.60	26.59	24.69	24.31	23.36	22.68	21.66	19.60
Inflation consumer prices (annual %)	11.76	11.27	10.05	7.12	9.42	10.15	10.36	13.81
Energy use (kg of oil equivalent per capita)	896.79	862.51	886.31	891.24	835.37	814.99	-	-

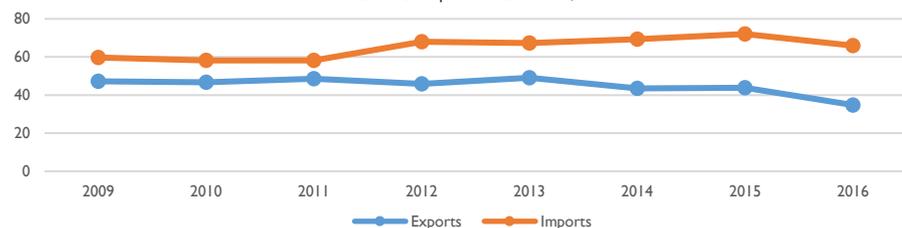
Graph 4.3.1.1. Egypt: Population
2009 - 2016 | Millions Inhabitants



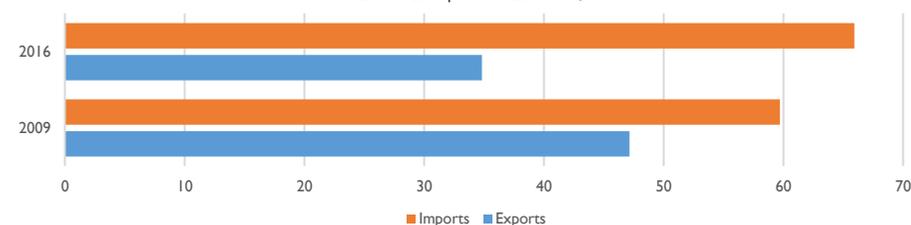
Graph 4.3.1.2. Egypt: GDP
2009 - 2016 | Current Billion US\$



Graph 4.3.1.3. Egypt: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



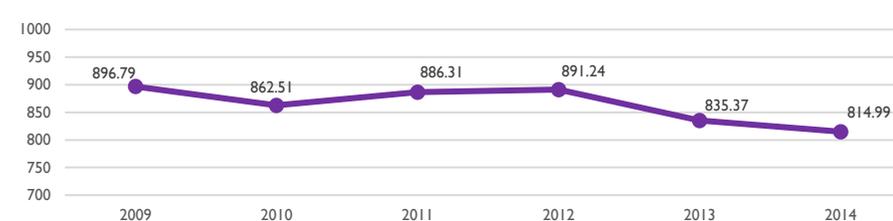
Graph 4.3.1.4. Egypt: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.3.1.5. Egypt: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.3.1.6. Egypt: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.3.2 Reserves and Production

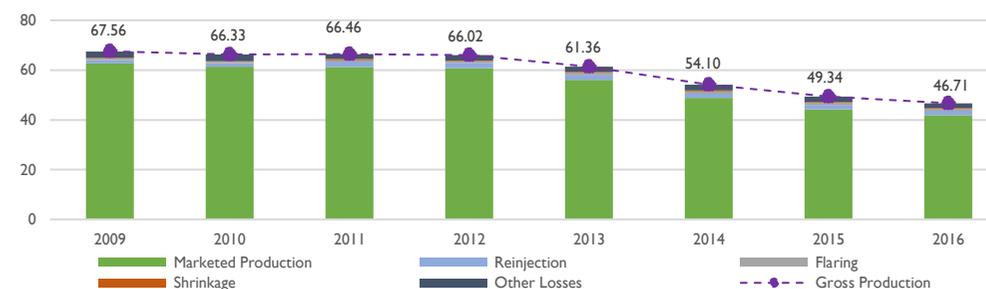
Table 4.3.2.1 Proven Gas Reserves* (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	2,198.80	2,202.40	2,118.98	1,957.18	1,777.14	1,777.14	1,777.14	1,777.14

Table 4.3.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	67.56	66.33	66.46	66.02	61.36	54.10	49.34	46.71
Marketed Production	62.69	61.32	61.26	60.80	56.13	48.79	44.26	41.93
Reinjection	1.40	1.46	2.21	2.09	2.02	1.77	1.78	1.72
Flaring	0.60	0.49	0.50	0.68	0.77	0.82	0.70	0.65
Shrinkage	0.27	0.35	0.50	0.31	0.33	0.49	0.45	0.40
Other Losses	2.50	2.72	1.98	2.13	2.10	2.23	2.14	2.01

Graph 4.3.2.1. Egypt: Natural Gas Production
2009 - 2016 | Bcm



4.3.3 Domestic Consumption and Trade

Table 4.3.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Residential	0.99	1.02	1.21	1.43	1.64	1.75	1.96	2.16
Industrial	12.56	13.75	14.10	14.73	14.40	12.12	10.49	12.21
Power Generation	23.70	25.14	27.83	30.08	29.04	28.63	30.64	31.25
Transportation	0.42	0.46	0.48	0.50	0.52	0.49	0.45	0.40
Petrochemical (feedstock)	0.33	0.48	1.48	1.46	1.60	1.41	0.83	1.35
Refineries	3.00	2.72	2.62	2.44	2.28	1.91	1.86	2.15
Others	1.54	1.59	1.90	1.95	1.94	1.71	1.57	1.77
Totals	42.54	45.15	49.62	52.60	51.42	48.02	47.80	51.28

Graph 4.3.3.1. Egypt: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

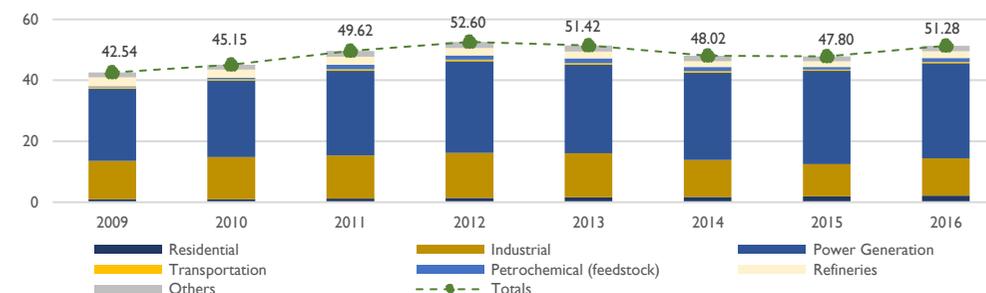


Table 4.3.3.2 Trade: Natural Gas Exports

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	5.45	5.46	1.79	1.68	0.88	0.23	0.24	0.00
LNG	Bcm*	16.59	11.94	11.19	8.26	4.87	0.44	0.99
	MMT	10.15	7.29	6.85	5.08	3.02	0.27	0.61
Totals (Bcm)	18.36	22.04	17.4	12.98	8.94	5.75	0.67	0.24

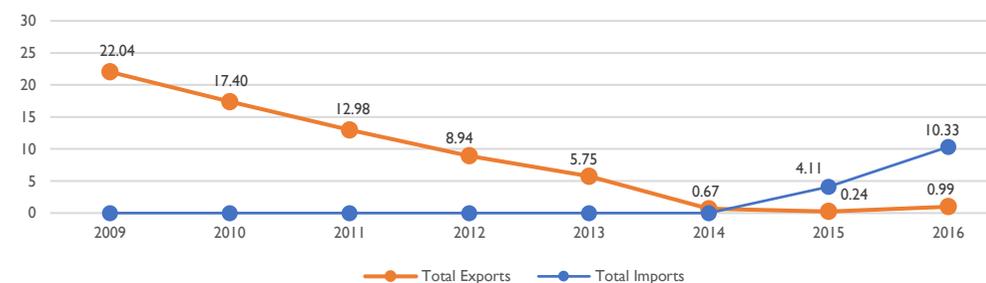
* Gas equivalent

Table 4.3.3.3 Trade: Natural Gas Imports

	2009	2010	2011	2012	2013	2014	2015	2016
LNG	Bcm*	0.00	0.00	0.00	0.00	0.00	4.11	10.33
	MMT	0.00	0.00	0.00	0.00	0.00	3.15	7.52

* Gas equivalent

Graph 4.3.3.2. Egypt: Natural Gas Exports and Imports
2009 - 2016 | Bcm



4.3.4 Transport and Plants

4.3.4.1 Natural Gas Exports Pipelines

Pipeline	Connection		Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To								
Arab Gas Pipeline	Egypt	Israel, Jordan, Syria, Lebanon	EGAS, ENPPI, GASCO, PETROJET SPC	Egyptian FAJR	Offline	10.0	Export	2003	1,200	36

4.3.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
IDKU Egyptian LNG	2.0	7.2	Operational	2005	Shell, EGAS, EGBC, Petronas, GDF	OPCO
Damietta	1.0	4.8	Offline	2004	EGAS, EGBC, Union Fenosa Gas	SEGas

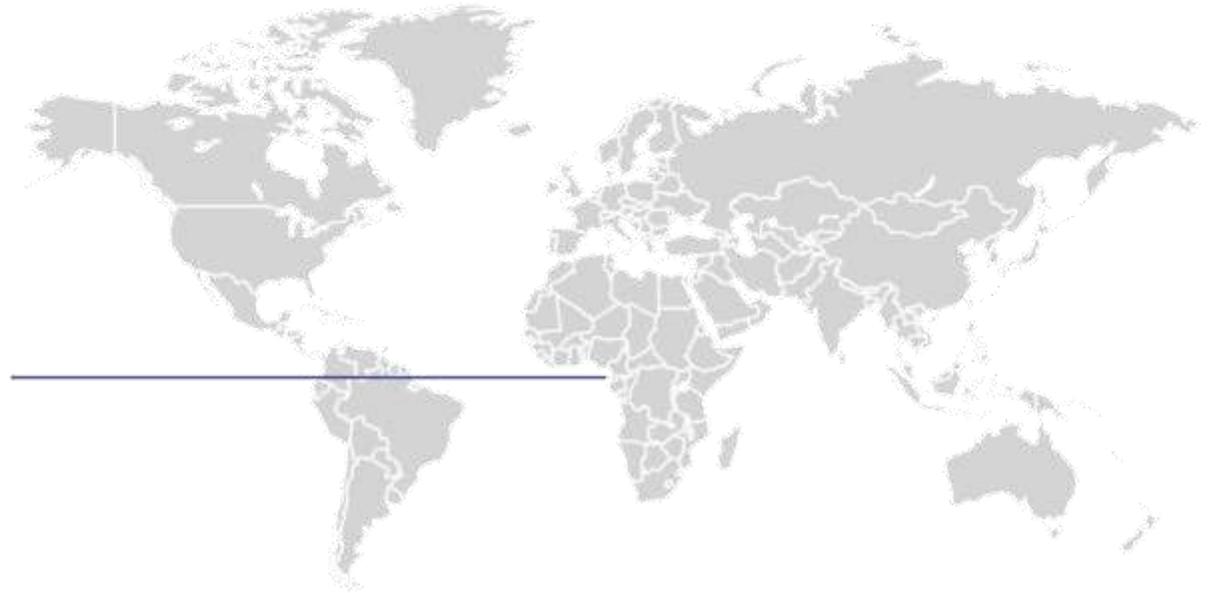
4.3.4.3 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
FSRU (Ain Sokhna)	7.7	Operational	2015	Norwegian BW Gas	Norwegian BW Gas



Republic of

EQUATORIAL GUINEA



Population:
1 221 490



Capital:
Malabo



Continent:
Africa



Currency:
Central African
CFA franc



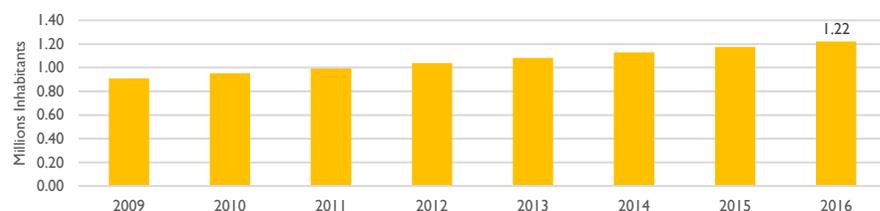
Time Zone:
West Africa
GMT+1

4.4.1 Macroeconomics

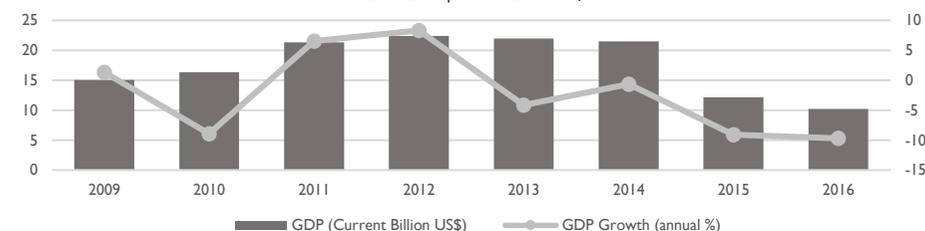
4.4.1.1 Equatorial Guinea Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	909,111	951,104	994,290	1,038,593	1,083,746	1,129,424	1,175,389	1,221,490
GDP (Current Billion US\$)	15.03	16.30	21.33	22.39	21.94	21.46	12.16	10.18
GDP Growth (annual %)	1.34	-8.92	6.52	8.31	-4.13	-0.69	-9.13	-9.69
GDP per capita (Current US\$)	16,530.21	17,136.45	21,451.89	21,557.65	20,246.99	19,002.60	10,347.31	8,333.24
Exports of Goods and Services (% of GDP)	74.34	85.76	75.10	71.90	67.65	66.81	59.69	55.11
Exports of Goods and Services (Current Billion US\$)	11.17	13.98	16.02	16.10	14.84	14.34	7.28	5.61
Imports of Goods and Services (Current Billion US\$)	7.19	9.60	8.38	10.02	8.61	8.35	5.51	4.51
Imports of Goods and Services (% of GDP)	47.87	58.91	39.28	44.77	39.24	38.91	45.27	44.32
Inflation consumer prices (annual %)	4.69	7.79	4.81	3.66	2.95	4.31	1.67	-
Energy use (kg of oil equivalent per capita)	2.40	2.53	2.61	2.61	2.52	2.63	-	-

Graph 4.4.1.1. Equatorial Guinea: Population
2009 - 2016 | Millions Inhabitants



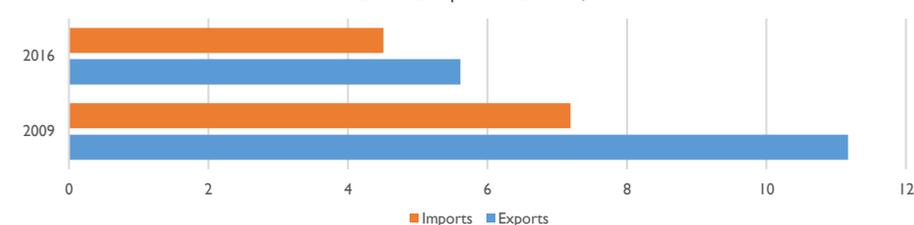
Graph 4.4.1.2. Equatorial Guinea: GDP
2009 - 2016 | Current Billion US\$



Graph 4.4.1.3. Equatorial Guinea: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



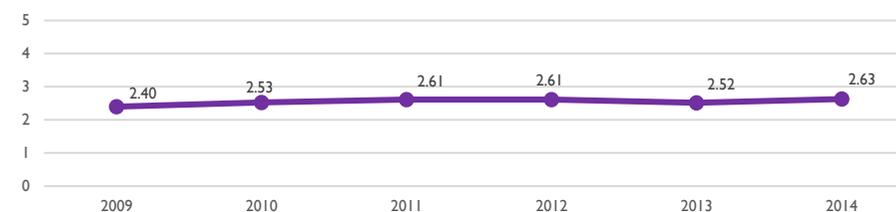
Graph 4.4.1.4. Equatorial Guinea: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.4.1.5. Equatorial Guinea: Inflation (Consumer Prices)
2009 - 2015 | Annual %



Graph 4.4.1.6. Equatorial Guinea: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.4.2 Reserves and Production

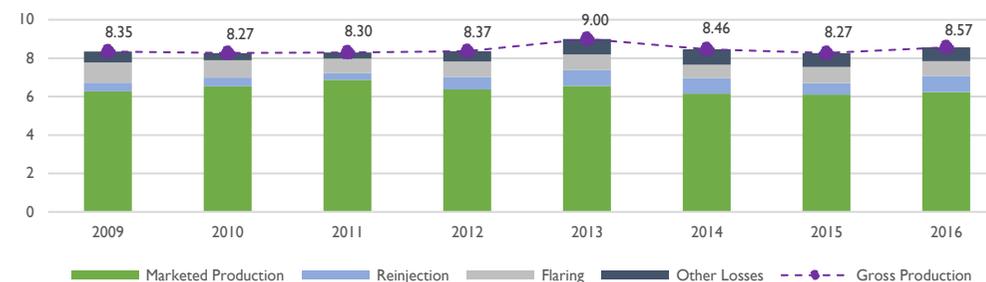
Table 4.4.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	84.20	82.30	78.30	71.00	65.80	60.10	54.40	36.80

Table 4.4.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	8.35	8.27	8.30	8.37	9.00	8.46	8.27	8.57
Marketed Production	6.27	6.54	6.88	6.37	6.55	6.16	6.10	6.24
Reinjection	0.45	0.45	0.35	0.65	0.85	0.80	0.60	0.83
Flaring	1.05	0.90	0.75	0.80	0.80	0.70	0.85	0.78
Other Losses	0.58	0.38	0.32	0.55	0.80	0.80	0.72	0.72

Graph 4.4.2.1. Equatorial Guinea: Natural Gas Production
2009 - 2016 | Bcm



4.4.3 Domestic Consumption and Trade

Table 4.4.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	1.55	1.54	1.60	1.53	1.46	1.27	1.05	1.74

Graph 4.4.3.1. Equatorial Guinea: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

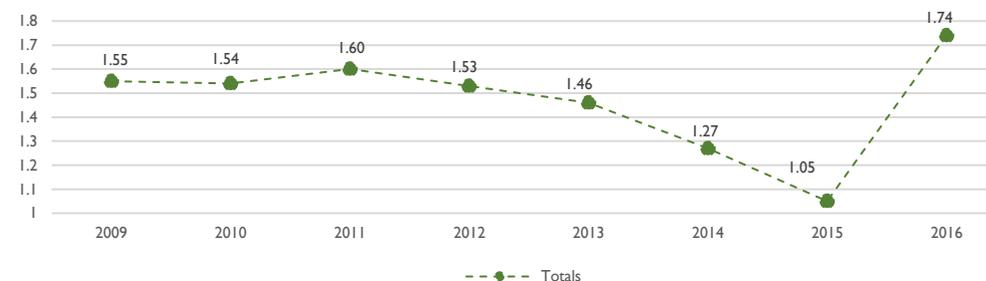
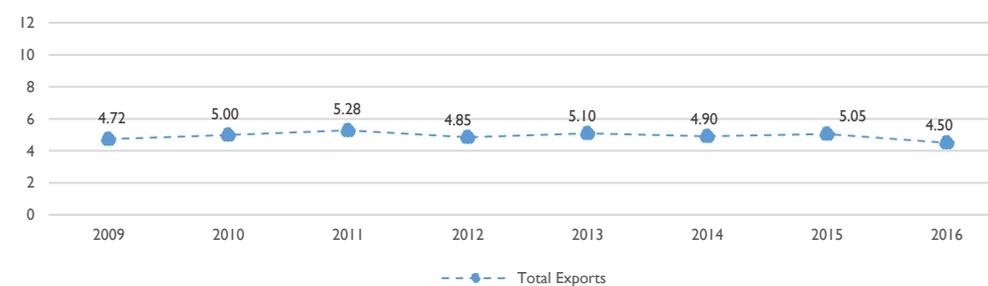


Table 4.4.3.2 Trade: Natural Gas Exports

		2009	2010	2011	2012	2013	2014	2015	2016
LNG	Bcm*	4.72	5.00	5.28	4.85	5.10	4.90	5.05	4.50
	MMT	3.47	3.68	3.88	3.56	3.75	3.60	3.71	3.31

* Gas equivalent

Graph 4.4.3.2. Equatorial Guinea: Natural Gas Exports
2009 - 2016 | Bcm



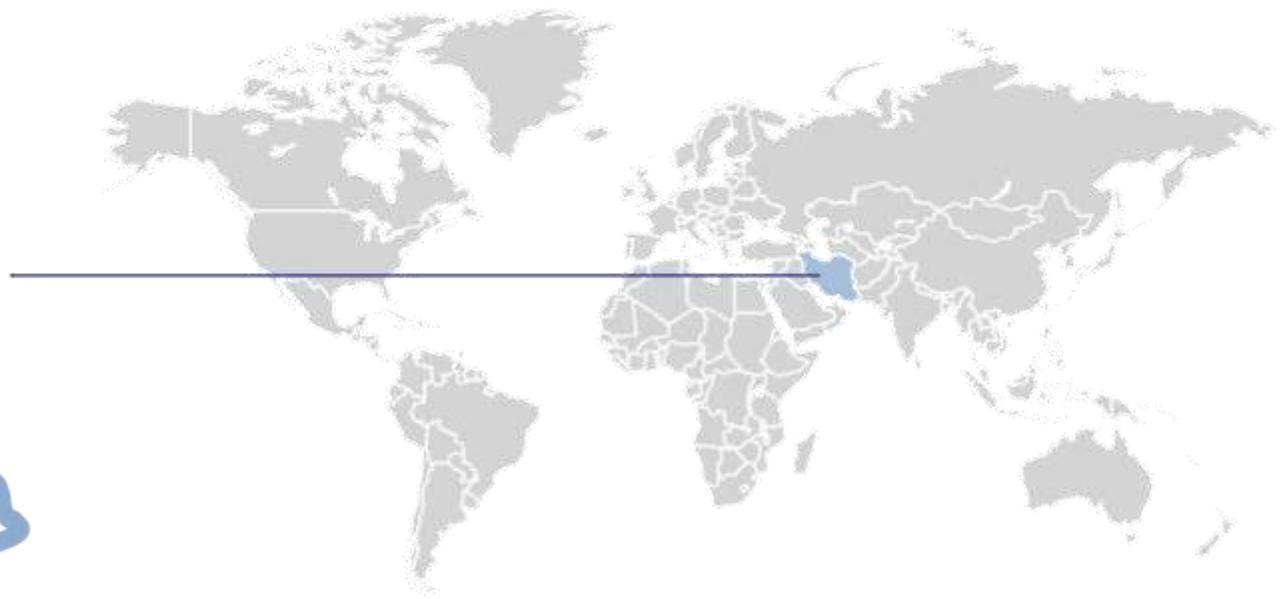
4.4.4 Transport and Plants

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	1.0	3.7	Operational	2007	Marathon, Sonagas, Mitsui, Marubeni	Marathon Oil
Fortuna FLNG	1.0	2.2	Planned	2020	Golar	Golar



Islamic Republic of
IRAN



Population:
80 277 428



Capital:
Tehran



Continent:
Middle East



Currency:
Iranian Rial



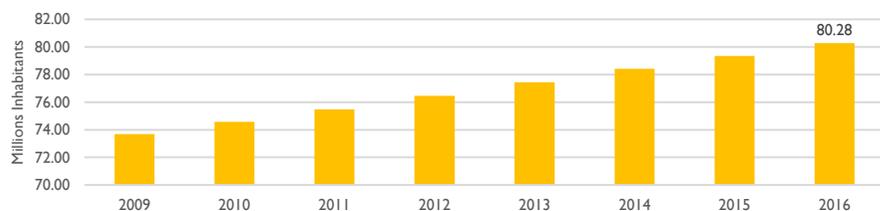
Time Zone:
**Iran Standard
GMT+3.5**

4.5.1 Macroeconomics

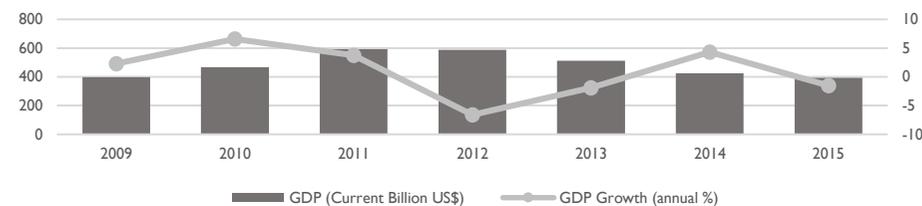
4.5.1.1 Iran Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	73,687,565	74,567,511	75,491,582	76,453,574	77,435,384	78,411,092	79,360,487	80,277,428
GDP (Current Billion US\$)	398.98	467.79	592.04	587.21	511.62	425.33	393.44	-
GDP Growth (annual %)	2.31	6.58	3.75	-6.61	-1.91	4.34	-1.50	-
GDP per capita (Current US\$)	5,414.46	6,273.38	7,874.43	7,680.60	6,607.07	5,424.31	4,957.58	-
Exports of Goods and Services (% of GDP)	23.52	25.40	25.66	22.36	27.47	24.17	19.74	-
Exports of Goods and Services (Current Billion US\$)	93.83	118.82	151.93	131.31	140.56	102.80	77.68	-
Imports of Goods and Services (Current Billion US\$)	87.39	95.13	97.95	121.74	101.24	80.36	75.83	-
Imports of Goods and Services (% of GDP)	21.90	20.34	16.54	20.73	19.79	18.89	19.27	-
Inflation consumer prices (annual %)	13.50	10.14	20.63	27.36	39.27	17.24	13.71	8.57
Energy use (kg of oil equivalent per capita)	2,771.53	2,739.57	2,759.44	2,835.04	2,853.54	3,023.49	-	-

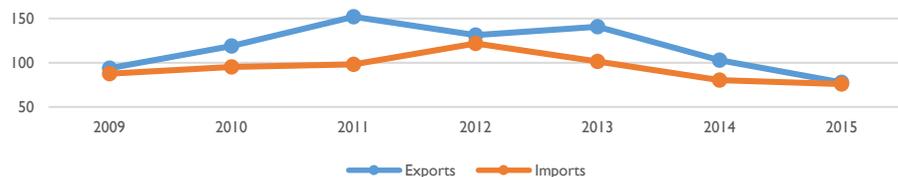
Graph 4.5.1.1. Iran: Population
2009 - 2016 | Millions Inhabitants



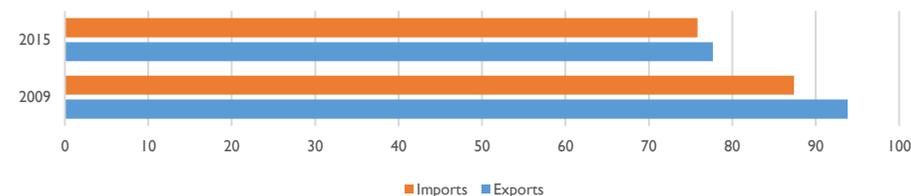
Graph 4.5.1.2. Iran: GDP and GDP Growth
2009 - 2016 | Current Billion US\$ and Annual %



Graph 4.5.1.3. Iran: Exports and Imports (Goods and Services)
2009 - 2015 | Current Billion US\$



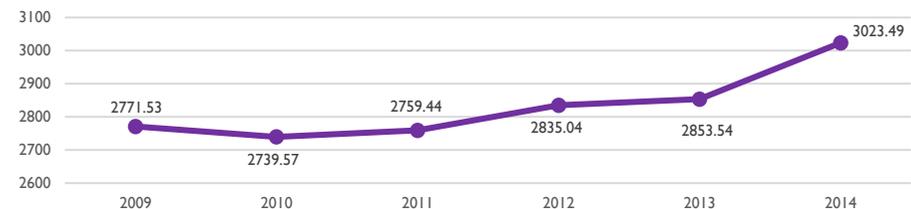
Graph 4.5.1.4. Iran: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.5.1.5. Iran: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.5.1.6. Iran: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.5.2 Reserves and Production

Table 4.5.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	29,610.00	33,090.00	33,620.00	33,780.00	34,020.00	34,020.00	34,020.00	33,500.00

Table 4.5.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	209.50	229.95	223.24	228.68	229.42	245.33	257.09	277.50
Marketed Production	190.78	197.18	191.32	199.90	199.81	205.86	228.93	245.72
Reinjection	18.72	32.77	31.92	28.78	29.61	29.08	28.16	31.78
Flaring	-	-	-	-	-	-	-	-
Other Losses	0.00	0.00	0.00	0.00	0.00	10.38	0.00	0.00

Graph 4.5.2.1. Iran: Natural Gas Production
2009 - 2016 | Bcm



4.5.3 Domestic Consumption and Trade

Table 4.5.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Residential	75.40	75.68	76.39	78.39	77.41	83.42	82.52	85.39
Industrial	11.57	11.55	11.57	12.62	12.44	12.17	13.09	12.79
Power Generation	35.23	36.64	39.23	37.99	36.47	45.19	56.70	61.90
Transportation	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30
Petrochemical (feedstock)	13.40	13.41	13.48	13.45	13.73	13.98	15.34	16.46
Refineries	4.09	4.20	3.91	4.28	4.72	4.39	4.55	4.96
Totals	146.99	148.78	151.87	154.03	152.07	166.46	179.49	188.81

Graph 4.5.3.1. Iran: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

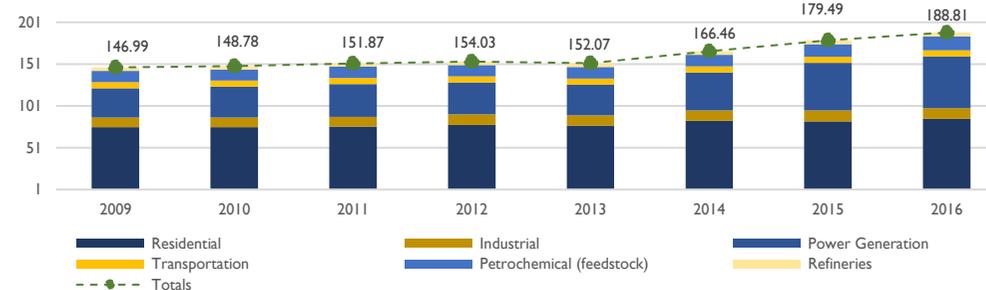


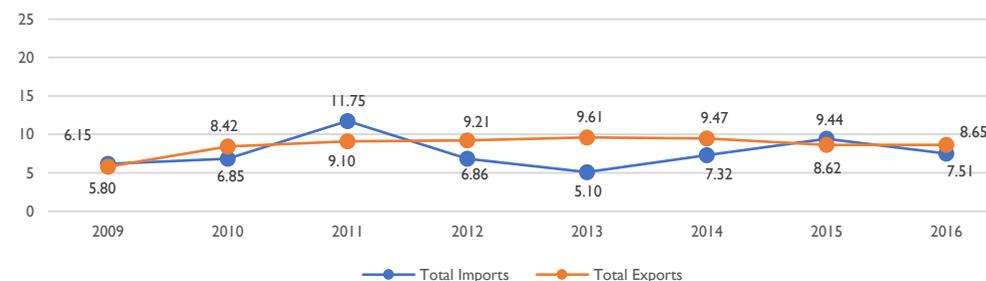
Table 4.5.3.2 Trade: Natural Gas Exports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	5.80	8.42	9.10	9.21	9.61	9.47	8.62	8.65

Table 4.5.3.3 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	6.15	6.85	11.75	6.86	5.10	7.32	9.44	7.51

Graph 4.5.3.2. Iran: Natural Gas Exports
2009 - 2016 | Bcm



4.5.4 Transport and Plants

4.5.4.1 Natural Gas Exports Pipelines

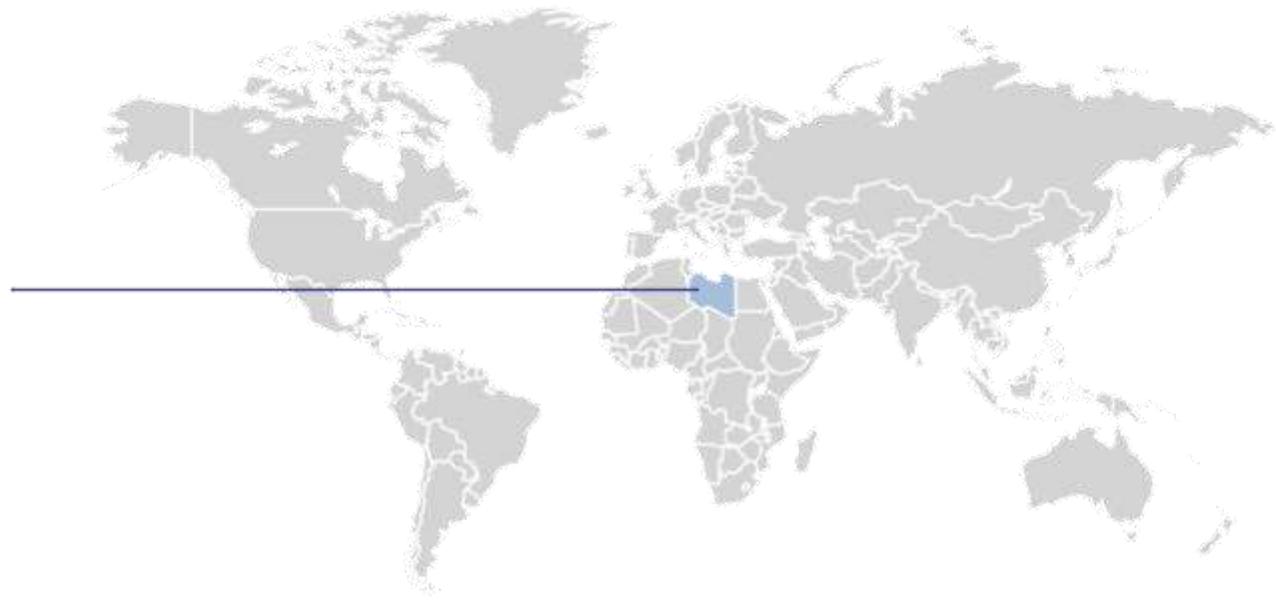
Pipeline	Connection		Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To								
Jolfa-Nakhchivan	Iran	Azerbaijan	-	-	Operational	0.4	Export	2005	1	10
Astara	Azerbaijan	Iran	-	-	Operational	0.4	Import	2005	1	40
Astara	Iran	Azerbaijan	-	-	Operational/ Suspended	Temporary Contract	Export	2016	1	40
Tabriz-Nordouz	Iran	Armenia	-	-	Operational	2.0	Export	2009	113	30
Tabriz-Bazargan	Iran	Turkey	-	-	Operational	10.0	Export	2001	250	40
-	Turkmenistan	Iran	-	-	Operational	14.0	Import	1997	60	40
-	Iran	Iraq	-	-	Operational/ Under Construction	20.0	Export	2017	230	48
-	Iran	Pakistan	-	-	Under Construction	10.0	Export	-	-	-
-	Iran	Oman	-	-	Planned	9.9	Export	-	-	-

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	Under Construction	2018	NIOC	Iran LNG
Iran FLNG	1	0.7	Planned	2018	NIOC	NIGC



State of
LIBYA



Population:
6 293 253



Capital:
Tripoli



Continent:
Africa



Currency:
Libyan Dinar



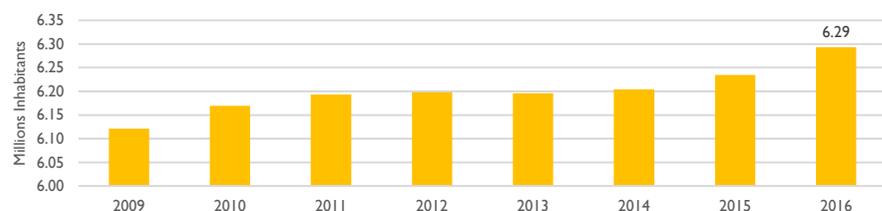
Time Zone:
Eastern European
GMT+2

4.6.1 Macroeconomics

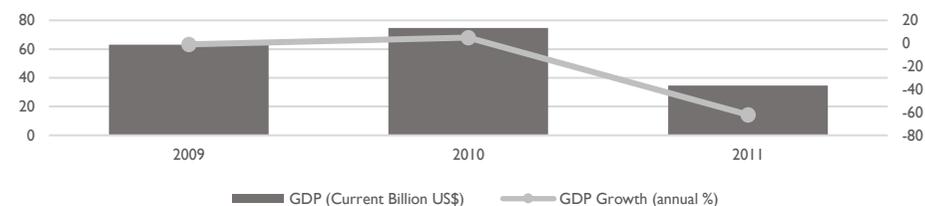
4.6.1.1 Libya Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	6,121,053	6,169,140	6,193,501	6,198,258	6,195,970	6,204,108	6,234,955	6,293,253
GDP (Current Billion US\$)	63.03	74.77	34.70	-	-	-	-	-
GDP Growth (annual %)	-0.79	5.02	-62.08	-	-	-	-	-
GDP per capita (Current US\$)	10,296.97	12,120.56	5,602.55	-	-	-	-	-
Exports of Goods and Services (% of GDP)	59.24	65.60	54.83	-	-	-	-	-
Exports of Goods and Services (Current Billion US\$)	37.34	49.06	19.03	-	-	-	-	-
Imports of Goods and Services (Current Billion US\$)	26.99	31.48	15.54	-	-	-	-	-
Imports of Goods and Services (% of GDP)	42.82	42.10	44.79	-	-	-	-	-
Inflation consumer prices (annual %)	2.46	2.80	15.52	6.06	2.61	-	-	-
Energy use (kg of oil equivalent per capita)	3,152.83	3,369.03	2,209.89	2,782.75	3,133.49	2,880.14	-	-

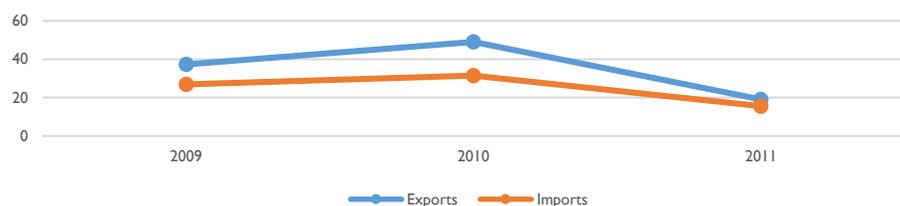
Graph 4.6.1.1. Libya: Population
2009 - 2016 | Millions Inhabitants



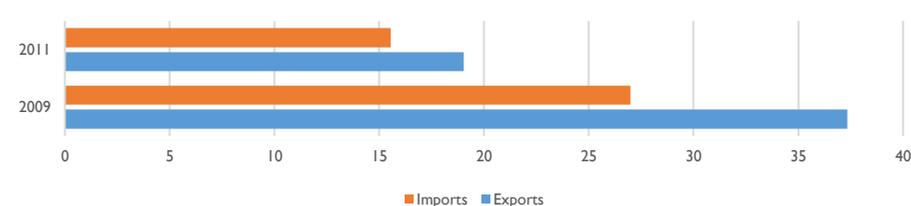
Graph 4.6.1.2. Libya: GDP and GDP Growth
2009 - 2011 | Current Billion US\$ and Annual %



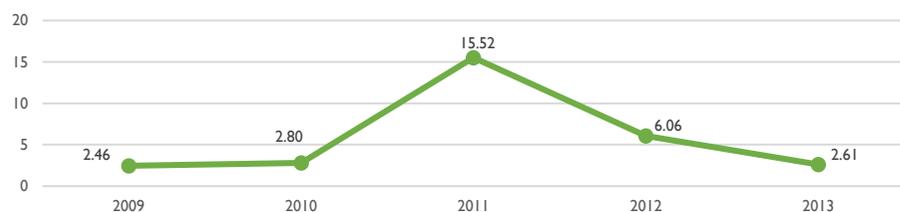
Graph 4.6.1.3. Libya: Exports and Imports (Goods and Services)
2009 - 2011 | Current Billion US\$



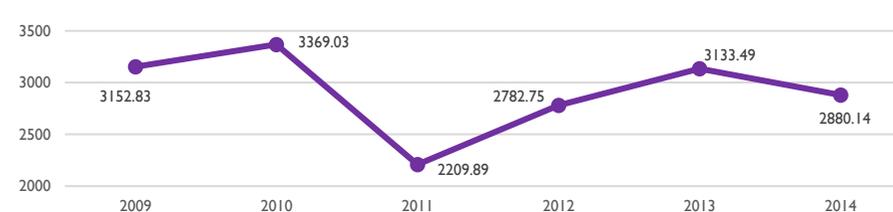
Graph 4.6.1.4. Libya: Exports and Imports (Goods and Services)
2009 vs 2011 | Current Billion US\$



Graph 4.6.1.5. Libya: Inflation (Consumer Prices)
2009 - 2013 | Annual %



Graph 4.6.1.6. Libya: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.6.2 Reserves and Production

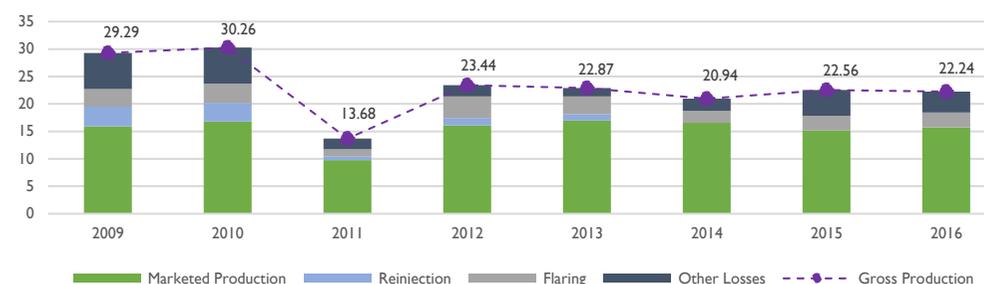
Table 4.6.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	1,549.00	1,500.00	1,506.63	1,504.82	1,503.00	1,502.50	1,502.50	1,500.00

Table 4.6.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	29.29	30.26	13.68	23.44	22.87	20.94	22.56	22.24
Marketed Production	15.90	16.81	9.78	16.07	16.99	16.59	15.15	15.74
Reinjection	3.57	3.40	0.70	1.40	1.15	0.00	0.00	0.00
Flaring	3.26	3.48	1.30	3.92	3.25	2.12	2.70	2.68
Other Losses	6.56	6.57	1.90	2.05	1.49	2.23	4.71	3.82

Graph 4.6.2.1. Libya: Natural Gas Production 2009 - 2016 | Bcm



4.6.3 Domestic Consumption and Trade

Table 4.6.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Residential	0.00	0.00	0.00	0.00	0.003	0.003	0.003	0.003
Industrial	0.94	0.92	0.97	0.66	1.28	1.32	0.76	0.67
Power Generation	7.55	7.80	5.72	7.93	8.87	7.77	6.69	7.34
Transportation	0.94	0.96	0.61	0.91	0.93	0.72	1.08	0.98
Petrochemical (feedstock)	0.30	0.27	0.16	0.22	0.36	0.36	0.17	0.18
Totals	9.73	9.95	7.46	9.71	11.44	10.17	8.69	9.17

Graph 4.6.3.1. Libya: Natural Gas Domestic Consumption 2009 - 2016 | Bcm

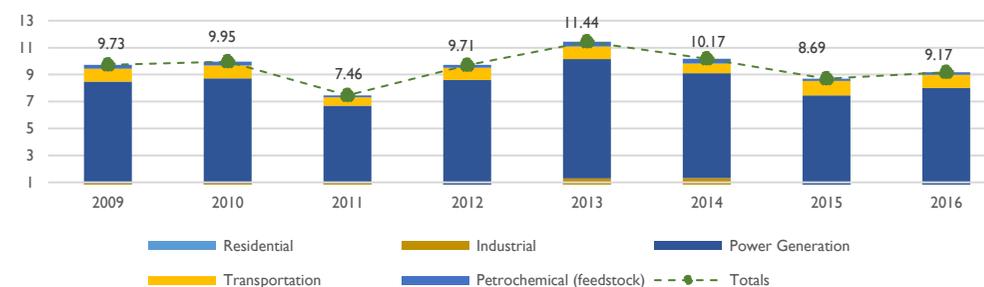
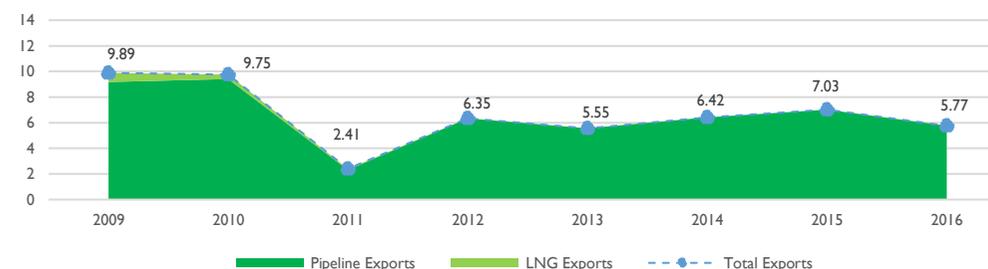


Table 4.6.3.2 Trade: Natural Gas Exports

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	9.17	9.41	2.32	6.35	5.55	6.42	7.03	5.77
LNG								
Bcm*	0.72	0.34	0.09	0.00	0.00	0.00	0.00	0.00
MMT	0.53	0.25	0.07	0.00	0.00	0.00	0.00	0.00
Totals (Bcm)	9.89	9.75	2.41	6.35	5.55	6.42	7.03	5.77

* Gas equivalent

Graph 4.6.3.2. Libya: Natural Gas Exports 2009 - 2016 | Bcm



4.6.4 Transport and Plants

4.6.4.1 Natural Gas Exports Pipelines

Pipeline	Connection		Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To								
Green Stream	Libya	Sicily	AGIP Gas BV	AGIP Gas BV	Operational	11.0	Export	2004	520	32

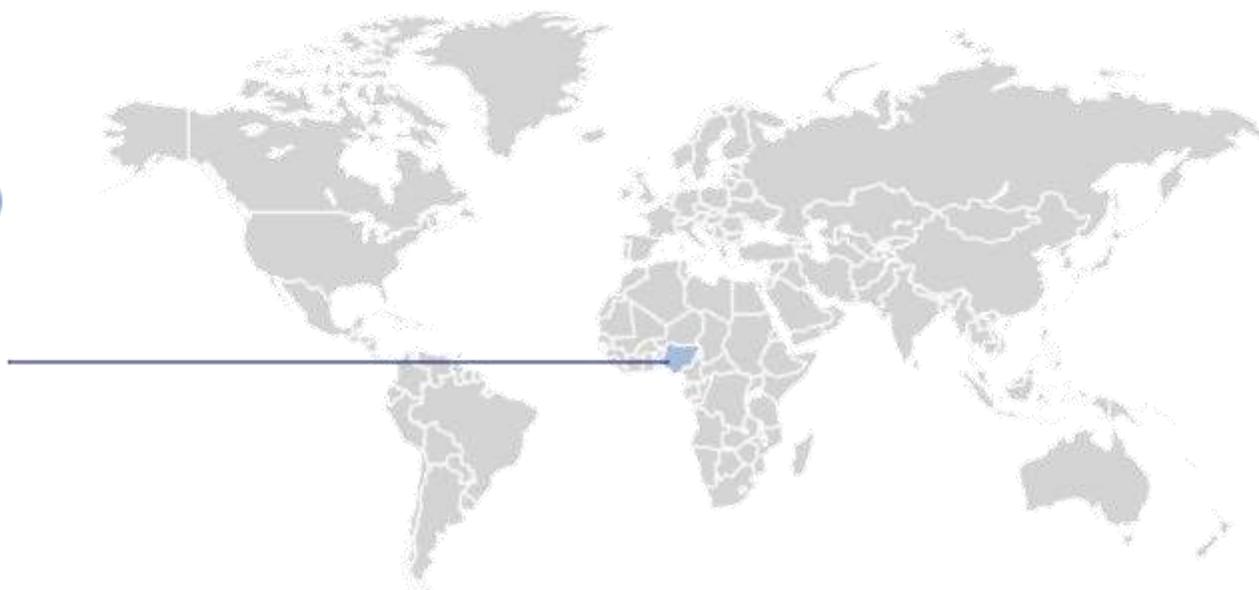
4.6.4.2 Liquefaction Plants

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



Federal Republic of

NIGERIA



Population:
185 816 023



Capital:
Abuja



Continent:
Africa



Currency:
Nigerian Naira



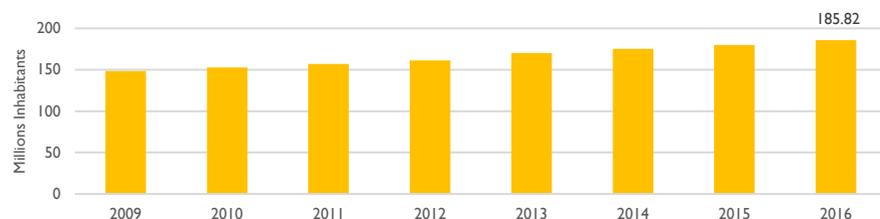
Time Zone:
West Africa
GMT+1

4.7.1 Macroeconomics

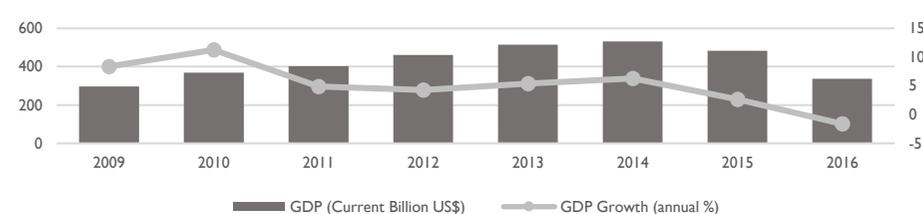
4.7.1.1 Nigeria Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	148,406,069	152,561,439	156,833,159	161,224,487	170,379,459	175,150,084	180,054,286	185,816,023
GDP (Current Billion US\$)	296.06	368.18	402.57	461.45	515.14	531.22	483.14	336.31
GDP Growth (annual %)	8.35	11.26	4.89	4.28	5.39	6.31	2.65	-1.62
GDP per capita (Current US\$)	1,994.96	2,413.29	2,566.86	2,862.19	3,023.51	3,032.93	2,683.28	1,809.92
Exports of Goods and Services (% of GDP)	19.43	21.65	23.91	20.85	18.84	14.38	9.29	6.04
Exports of Goods and Services (Current Billion US\$)	57.54	79.73	96.27	96.23	97.05	76.38	44.90	20.30
Imports of Goods and Services (Current Billion US\$)	52.60	64.17	88.38	59.65	66.94	70.78	50.48	-
Imports of Goods and Services (% of GDP)	17.77	17.43	21.95	12.93	12.99	13.32	10.45	-
Inflation consumer prices (annual %)	12.60	13.70	10.90	12.20	8.50	8.00	9.00	15.62
Energy use (kg of oil equivalent per capita)	211.65	385.31	471.20	480.43	426.86	365.78	205.22	53.09

Graph 4.7.1.1. Nigeria: Population
2009 - 2016 | Millions Inhabitants



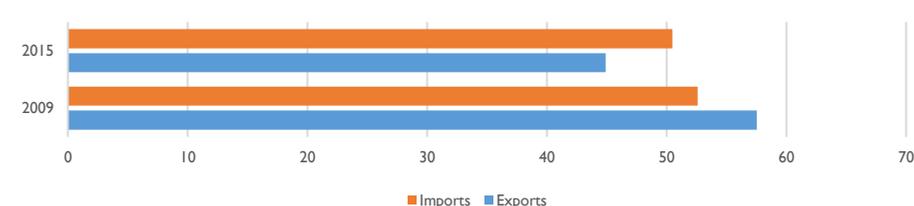
Graph 4.7.1.2. Nigeria: GDP and GDP Growth
2009 - 2016 | Current Billion US\$



Graph 4.7.1.3. Nigeria: Exports and Imports (Goods and Services)
2009 - 2015 | Current Billion US\$



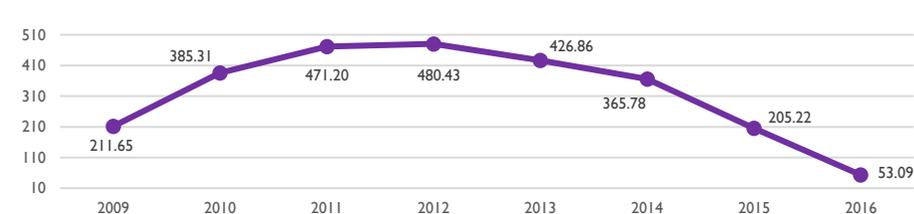
Graph 4.7.1.4. Nigeria: Exports and Imports (Goods and Services)
2009 vs 2015 | Current Billion US\$



Graph 4.7.1.5. Nigeria: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.7.1.6. Nigeria: Energy Use
2009 - 2016 | kg of Oil Equivalent per Capita



4.7.2 Reserves and Production

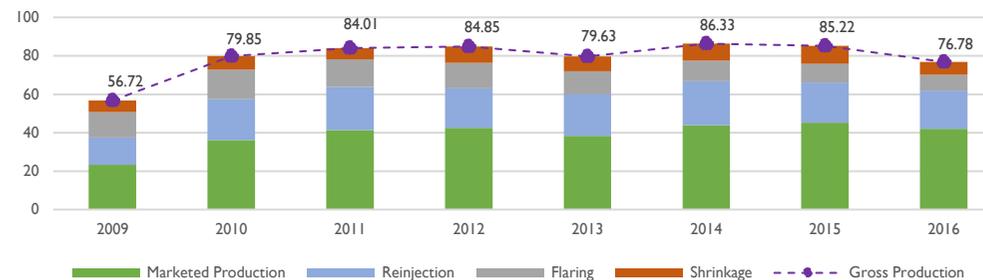
Table 4.7.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	5,204.25	5,106.41	5,170.85	5,114.50	5,107.69	5,302.85	5,280.44	5,475.20

Table 4.7.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	56.72	79.85	84.01	84.85	79.63	86.33	85.22	76.78
Marketed Production	23.21	36.19	41.32	42.57	38.41	43.84	45.15	41.99
Reinjection	14.25	21.29	22.52	20.52	21.47	22.89	21.04	19.90
Flaring	13.33	15.29	14.27	13.18	12.11	10.74	9.69	8.18
Shrinkage	5.94	7.08	5.89	8.57	7.64	8.85	9.35	6.70

Graph 4.7.2.1. Nigeria: Natural Gas Production
2009 - 2016 | Bcm



4.7.3 Domestic Consumption and Trade

Table 4.7.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Industrial	0.82	1.08	1.30	1.90	2.23	2.31	3.57	3.33
Power Generation	2.31	3.30	4.19	4.63	4.88	4.96	7.20	5.36
Petrochemical (feedstock)	0.34	0.51	0.55	0.69	0.47	0.35	0.27	0.06
Refineries	0.09	0.11	0.13	0.11	0.11	0.11	0.08	0.13
Totals	3.56	5.00	6.16	7.33	7.70	7.73	11.12	8.88

Graph 4.7.3.1. Nigeria: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

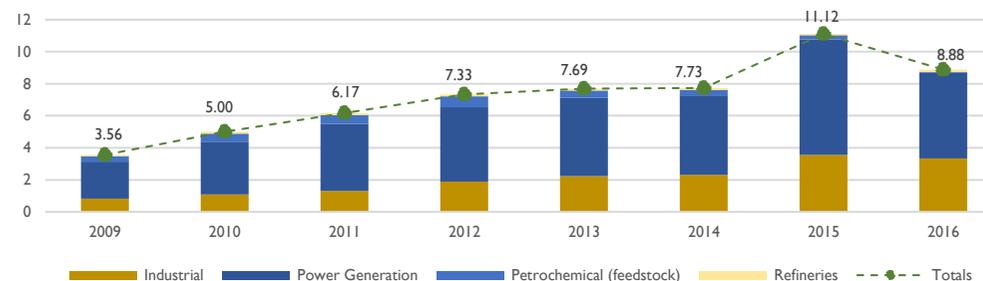
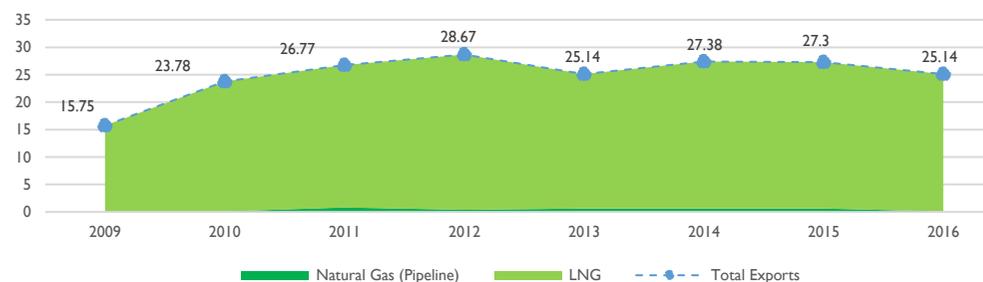


Table 4.7.3.2 Trade: Natural Gas Exports

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	0.00	0.12	0.83	0.40	0.60	0.60	0.60	0.12
LNG								
Bcm*	15.75	23.66	25.94	28.27	24.54	26.78	26.70	25.02
MMT	11.58	17.40	19.07	20.79	18.04	19.69	19.63	18.40
Totals (Bcm)	15.75	23.78	26.77	28.67	25.14	27.38	27.30	25.14

* Gas equivalent

Graph 4.7.3.2. Nigeria: Natural Gas Exports
2009 - 2016 | Bcm



4.7.4 Transport and Plants

4.7.4.1 Natural Gas Exports 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

4.7.4.2 LNG Carrier Fleet

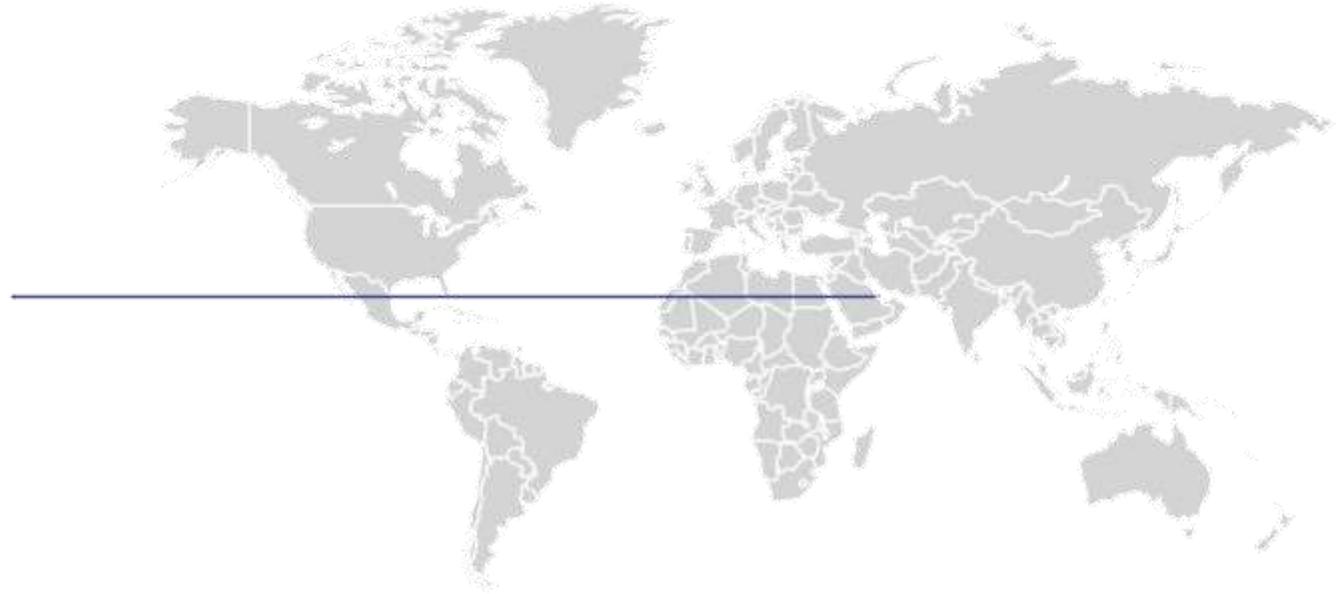
Number of Vessels	Status	Technology	
		Membrane	Moss
23	Operational	16	7

4.7.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
NLNG 6	2	4.0	Operational	2007	Nigeria LNG	Nigeria LNG
NLNG Base	1	7.0	Operational	1999	Nigeria LNG	Nigeria LNG
NLNG Expansion	1	3.3	Operational	2002	Nigeria LNG	Nigeria LNG
NLNG Plus	2	8.1	Operational	2006	Nigeria LNG	Nigeria LNG



State of
QATAR



Population:
2 569 804



Capital:
Doha



Continent:
Middle East



Currency:
Qatari Riyal



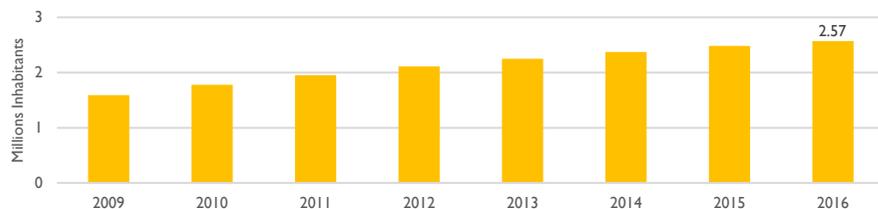
Time Zone:
Arabia
GMT+3

4.8.1 Macroeconomics

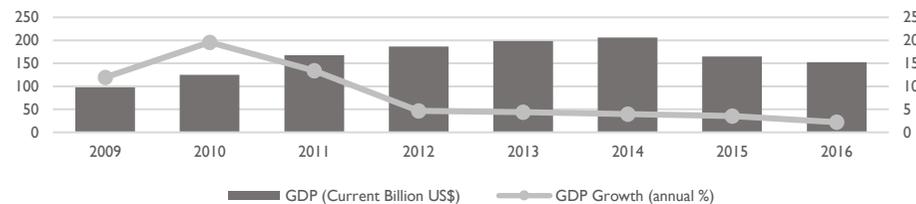
4.8.1.1 Qatar Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	1,590,780	1,779,676	1,952,054	2,109,568	2,250,473	2,374,419	2,481,539	2,569,804
GDP (Current Billion US\$)	97.80	125.12	167.78	186.83	198.73	206.22	164.64	152.47
GDP Growth (annual %)	11.96	19.59	13.38	4.69	4.41	3.98	3.55	2.23
GDP per capita (Current US\$)	61,478.24	70,306.23	85,948.07	88,564.82	88,304.88	86,852.71	66,346.52	59,330.86
Exports of Goods and Services (% of GDP)	51.13	62.32	72.62	76.47	72.72	68.00	56.06	47.48
Exports of Goods and Services (Current Billion US\$)	50.01	77.98	121.84	142.88	144.51	140.23	92.29	72.40
Imports of Goods and Services (Current Billion US\$)	28.37	29.72	43.79	54.69	58.95	64.00	59.27	63.48
Imports of Goods and Services (% of GDP)	29.01	23.75	26.10	29.27	29.67	31.04	36.00	41.63
Inflation consumer prices (annual %)	-4.86	-2.43	1.92	1.87	3.13	3.08	1.88	2.88
Energy use (kg of oil equivalent per capita)	15,233.92	15,531.78	16,030.61	18,055.61	17,926.72	18,562.67	-	-

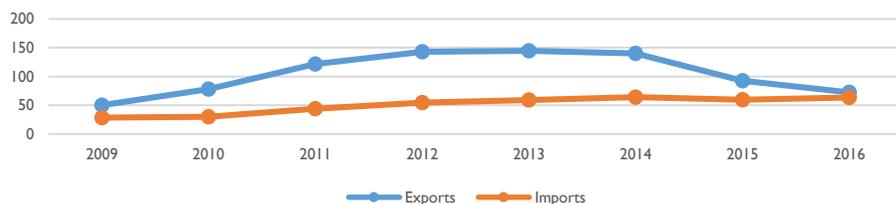
Graph 4.8.1.1. Qatar: Population
2009 - 2016 | Millions Inhabitants



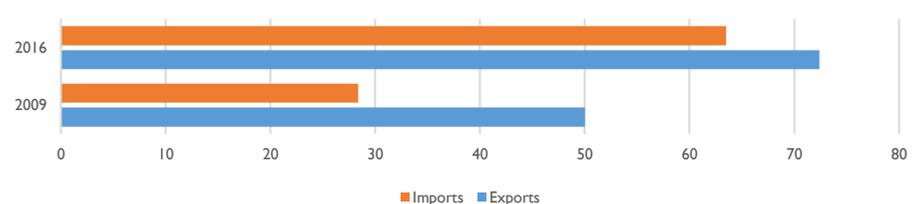
Graph 4.8.1.2. Qatar: GDP
2009 - 2016 | Current Billion US\$



Graph 4.8.1.3. Qatar: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



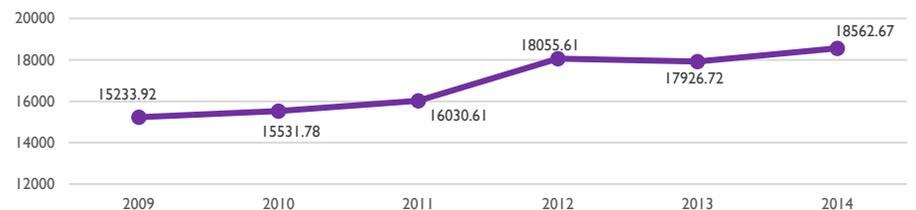
Graph 4.8.1.4. Qatar: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.8.1.5. Qatar: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.8.1.6. Qatar: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.8.2 Reserves and Production

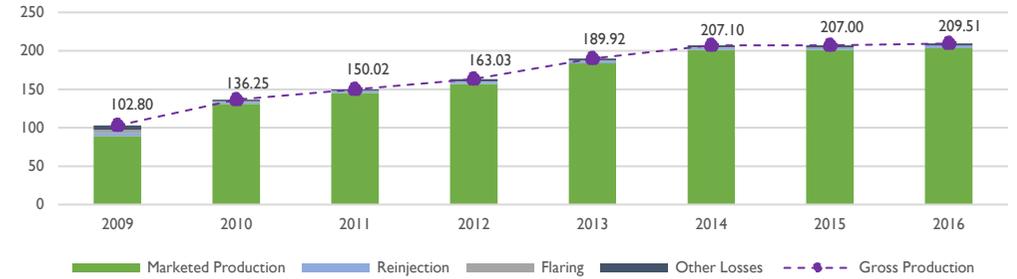
Table 4.8.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	25,343.80	25,124.05	25,089.03	25,008.57	24,680.03	24,530.03	24,413.55	24,300.00

Table 4.8.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	102.80	136.25	150.02	163.03	189.92	207.10	207.00	209.51
Marketed Production	89.31	131.17	145.27	157.05	183.82	201.13	201.13	203.44
Reinjection	3.89	2.07	2.11	2.66	2.71	2.65	2.53	2.74
Flaring	3.97	1.02	0.56	0.70	0.74	0.71	0.72	0.75
Other Losses	5.65	1.99	2.08	2.62	2.65	2.61	2.62	2.58

Graph 4.8.2.1. Qatar: Natural Gas Production
2009 - 2016 | Bcm



4.8.3 Domestic Consumption and Trade

Table 4.8.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	20.80	29.80	19.60	23.40	38.19	40.52	43.90	41.70

Graph 4.8.3.1. Qatar: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

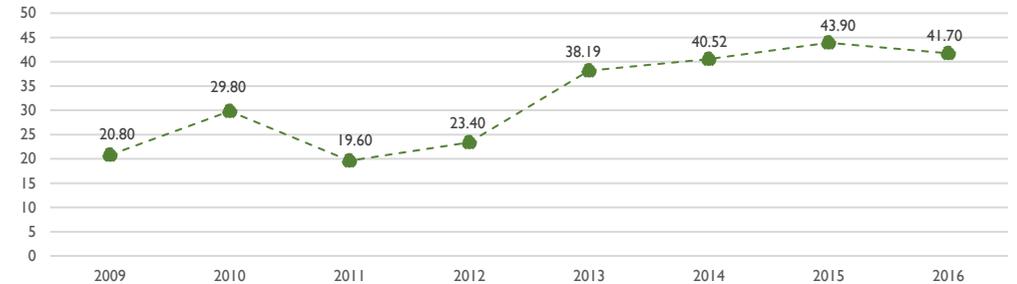
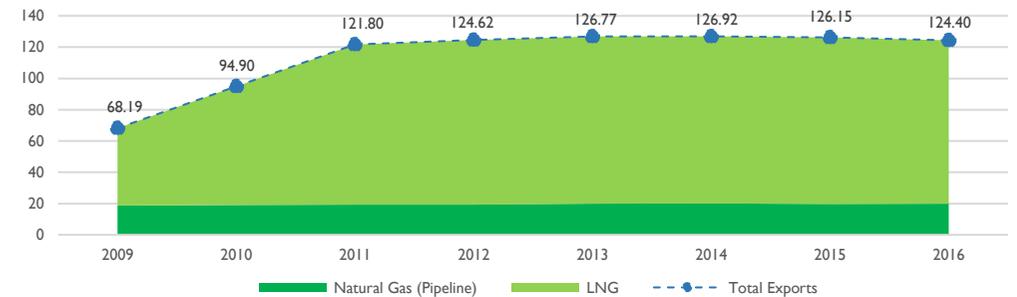


Table 4.8.3.2 Trade: Natural Gas Exports

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	18.75	19.15	19.20	19.22	19.90	20.09	19.75	20.00
LNG								
Bcm*	49.44	75.75	102.60	105.40	106.87	106.83	106.40	104.40
MMT	36.35	55.70	75.44	77.50	78.58	78.55	78.24	76.76
Totals (Bcm)	68.19	94.90	121.80	124.62	126.77	126.92	126.15	124.40

* Gas equivalent

Graph 4.8.3.2. Qatar: Natural Gas Exports
2009 - 2016 | Bcm



4.8.4 Transport and Plants

4.8.4.1 Natural Gas Exports Pipelines

Pipeline	Connection		Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To								
Dolphin	Qatar	UAE	Dolphin Energy	Dolphin Energy	Operational	33.1	Export	2007	364	48

4.8.4.2 LNG Carrier Fleet

Number of Vessels	Status	Total Capacity	
		Bcm	MMT
67	Operational	-	-

4.8.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Qatargas 1	3	9.7	Operational	1996	Qatar Petroleum, ExxonMobil, Total, Other international Companies	Qatargas
Qatargas 2	2	15.8	Operational	2009	Qatar Petroleum, ExxonMobil, Total	Qatargas
Qatargas 3	1	7.9	Operational	2010	Qatar Petroleum, Conoco Philips, Other international Companies	Qatargas
Qatargas 4	1	7.9	Operational	2011	Qatar Petroleum, Royal Dutch Shell	Qatargas
RasGas 1	2	6.6	Operational	1999	Qatar Petroleum, ExxonMobil, Other international Companies	RasGas
RasGas 2	3	14.1	Operational	2004	Qatar Petroleum, ExxonMobil	RasGas
RasGas 3	2	15.9	Operational	2010	Qatar Petroleum, ExxonMobil	RasGas



Russian Federation
RUSSIA



Population:
146 500 000



Capital:
Moscow



Continent:
Asia



Currency:
Russian Ruble



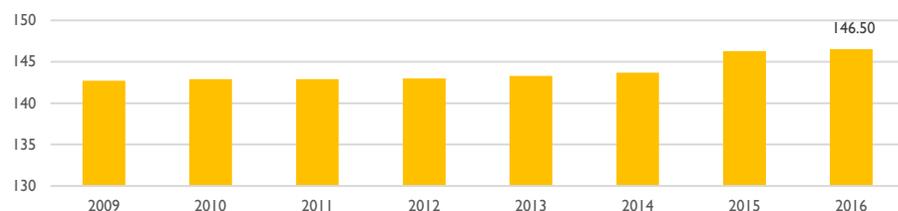
Time Zone:
GMT+3
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4.9.1 Macroeconomics

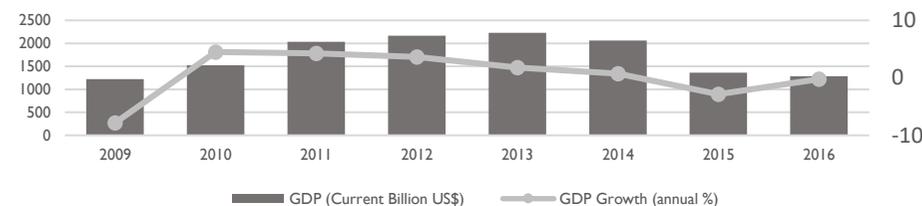
4.9.1.1 Russia Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	142,700,000	142,900,000	142,900,000	143,000,000	143,300,000	143,700,000	146,300,000	146,500,000
GDP (Current Billion US\$)	1222.64	1524.92	2031.77	2170.14	2230.63	2063.66	1365.87	1283.16
GDP Growth (annual %)	-7.82	4.50	4.26	3.66	1.79	0.74	-2.83	-0.22
GDP per capita (Current US\$)	8,562.81	10,674.99	14,212.06	15,154.46	15,543.68	14,348.96	9,478.80	8,889.71
Exports of Goods and Services (% of GDP)	27.94	29.22	28.25	24.18	23.58	24.10	25.15	22.26
Exports of Goods and Services (Current Billion US\$)	341.58	445.51	573.99	524.74	525.98	497.36	343.51	285.67
Imports of Goods and Services (Current Billion US\$)	250.60	322.37	408.78	317.26	315.29	287.06	182.90	182.27
Imports of Goods and Services (% of GDP)	20.50	21.14	20.12	14.62	14.13	13.91	13.39	14.20
Inflation consumer prices (annual %)	12.06	5.46	7.63	5.54	5.64	7.56	16.31	7.47
Energy use (kg of oil equivalent per capita)	4,531.29	4,819.04	5,049.43	5,167.01	5,078.63	4,942.88	-	-

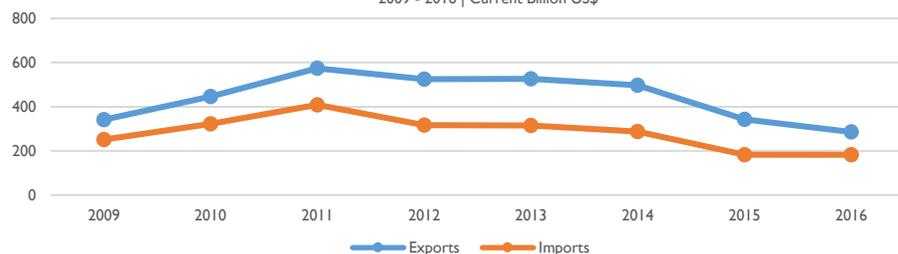
Graph 4.9.1.1. Russia: Population
2009 - 2016 | Millions Inhabitants



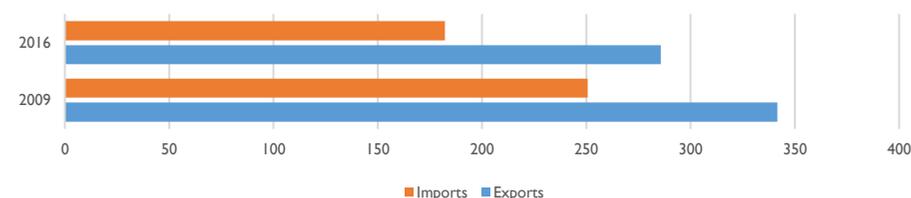
Graph 4.9.1.2. Russia: GDP and GDP Growth
2009 - 2016 | Current Billion US\$



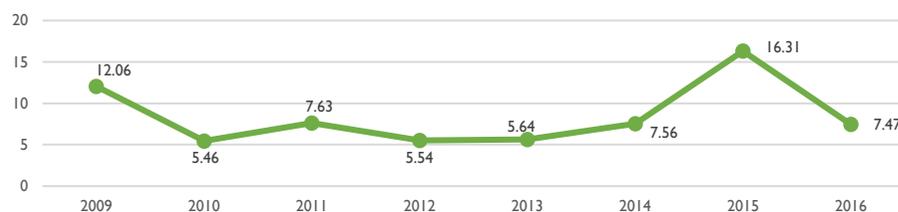
Graph 4.9.1.3. Russia: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



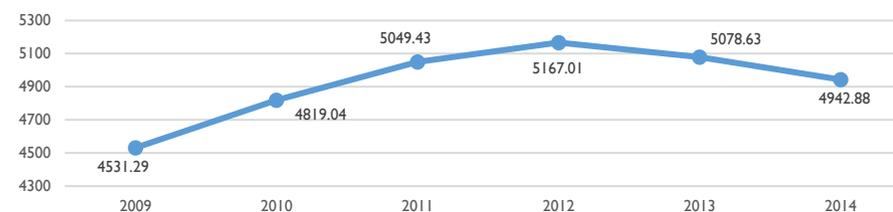
Graph 4.9.1.4. Russia: Exports and Imports (Goods and Services)
2012 - 2016 | Current Billion US\$



Graph 4.9.1.5. Russia: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.9.1.6. Russia: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.9.2 Reserves and Production

Table 4.9.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	45,200.00	45,200.00	46,538.00	46,605.00	46,867.50	47,148.00	47,442.50	47,464.50

Table 4.9.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	650.07	651.00	671.00	654.50	667.80	642.00	635.50	640.20
Marketed Production	564.90	633.55	650.57	636.23	656.06	615.52	609.40	603.70
Flaring	18.86	16.92	17.31	17.68	11.74	15.67	14.51	15.17
Other Losses	66.31	0.53	3.12	0.59	0.00	10.81	11.59	21.33

Graph 4.9.2.1. Russia: Natural Gas Production



4.9.3 Domestic Consumption and Trade

Table 4.9.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	461.32	459.83	464.13	460.00	456.80	458.40	444.30	456.70

Graph 4.9.3.1. Russia: Natural Gas Domestic Consumption



Table 4.9.3.2 Trade: Natural Gas Exports

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	176.11	181.64	202.77	186.20	203.30	181.10	192.50	208.60
LNG	Bcm*	5.30	10.00	10.70	10.90	10.80	10.80	10.90
	MMT	3.90	7.35	7.87	8.01	7.94	7.87	8.01
Totals (Bcm)	181.41	191.64	213.47	197.10	214.10	191.80	203.30	219.50

* Gas equivalent

Graph 4.9.3.2. Russia: Natural Gas Exports and Imports



Table 4.9.3.3 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	32.59	32.90	30.48	30.29	27.91	24.18	17.45	21.70

4.9.4 Transport and Plants

4.9.4.1 Natural Gas Exports Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Nord Stream	Russia	Germany	-	Nord Stream AG JV	Nord Stream AG JV	Operational	55.0	Export	2011	1224	56
Yamal Europe	Russia	Europe (Poland Belarus Germany)	-	Gazprom	Gazprom	Operational	33.0	Export	2006	4000	56
Blue Stream	Russia	Turkey	Ukraine Moldova Romania and Bulgaria	Gazprom EuRoPol Gaz S.A	Gazprom Transgaz Belaru EuRoPol Gaz S.A	Operational	16.0	Export	2003	1213	55/47
Nord Stream 2	Russia	Germany	-	Gazprom	Gazprom	Planned	55.0	Export	2019	1200	48
TurkStream	Russia	Turkey	-	Gazprom	-	Planned	15.8	Export	2018	900	32

4.9.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Sakhalin 2	2	10.8	Operational	2009	-	Sakhalin Energy
Sakhalin 2	1	5.0	Announced	2021	-	Sakhalin Energy
Yamal LNG	1	5.5	Under Construction	2017	-	Novatek
Yamal LNG	1	5.5	Under Construction	2018	-	Novatek
Yamal LNG	1	5.5	Under Construction	2019	-	Novatek
Pechora LNG	1	2.6	Announced	2024	-	CH-Oil & Gas (Altech Group)
Russia Far Eastern	1	5.0	Announced	2025	-	Rosneft
Vladivostok	1	10.0	Planned	-	-	Gazprom

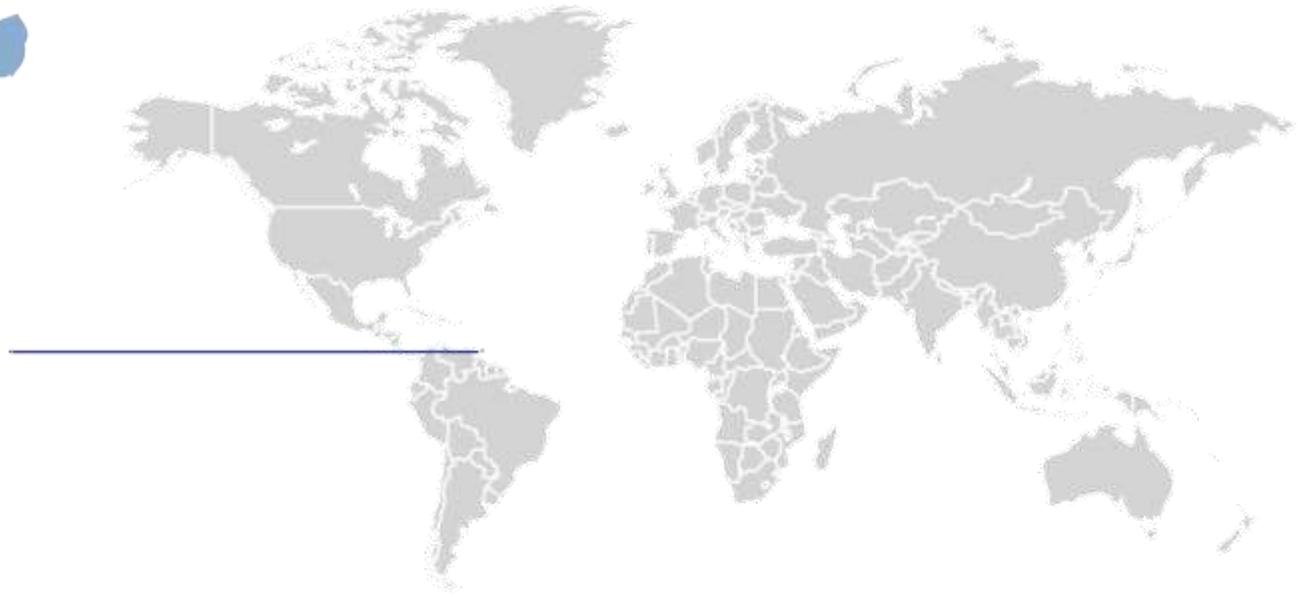
4.9.4.3 Regasification Plants

Regasification Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Kaliningrad LNG	2.4	Planned	2018	Gazprom	Gazprom



Republic of

TRINIDAD AND TOBAGO



Population:
1 364 962



Capital:
Port of Spain



Continent:
South America
Caribbean Sea



Currency:
Trinidad and
Tobago Dollar



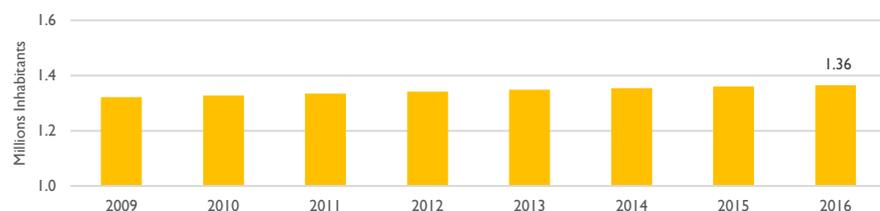
Time Zone:
Atlantic
GMT-4

4.10.1 Macroeconomics

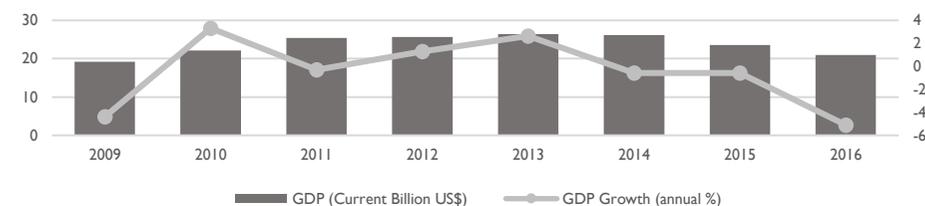
4.10.1.1 Trinidad and Tobago Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	1,321,618	1,328,100	1,334,788	1,341,588	1,348,248	1,354,493	1,360,092	1,364,962
GDP (Current Billion US\$)	19.18	22.16	25.43	25.69	26.44	26.18	23.56	20.99
GDP Growth (annual %)	-4.39	3.32	-0.29	1.29	2.65	-0.58	-0.58	-5.11
GDP per capita (Current US\$)	14,508.88	16,683.95	19,053.97	19,152.05	19,607.83	19,325.24	17,321.83	15,377.10
Exports of Goods and Services (% of GDP)	52.08	54.67	62.46	54.01	74.66	59.54	50.31	48.14
Exports of Goods and Services (Current Billion US\$)	9.99	12.11	15.88	13.88	19.74	15.59	11.85	10.11
Imports of Goods and Services (Current Billion US\$)	7.36	6.89	11.06	13.26	14.07	12.77	11.27	10.64
Imports of Goods and Services (% of GDP)	38.40	31.10	43.48	51.61	53.21	48.77	47.85	50.67
Inflation consumer prices (annual %)	6.97	10.55	5.10	9.27	5.20	5.68	4.66	-
Energy use (kg of oil equivalent per capita)	14,203.15	15,109.19	14,791.36	14,346.84	14,537.48	14,446.75	-	-

Graph 4.10.1.1. Trinidad and Tobago: Population
2009 - 2016 | Millions Inhabitants



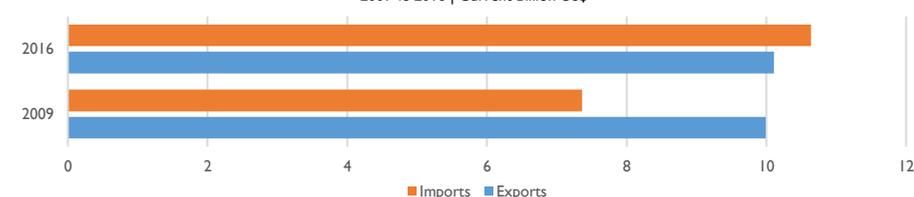
Graph 4.10.1.2. Trinidad and Tobago: GDP and GDP Growth
2009 - 2016 | Current Billion US\$



Graph 4.10.1.3. Trinidad and Tobago: Exports and Imports
(Goods and Services)
2009 - 2016 | Current Billion US\$



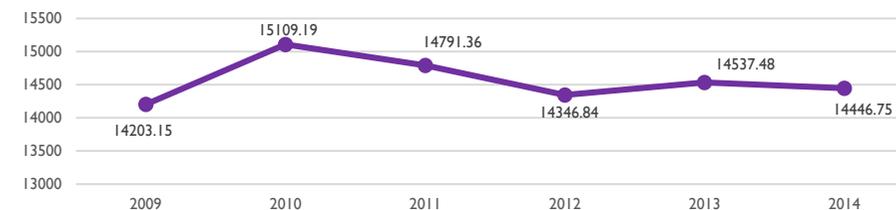
Graph 4.10.1.4. Trinidad and Tobago: Exports and Imports
(Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.10.1.5. Trinidad and Tobago: Inflation (Consumer Prices)
2009 - 2015 | Annual %



Graph 4.10.1.6. Trinidad and Tobago: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.10.2 Reserves and Production

Table 4.10.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	408.12	381.05	375.31	371.03	346.51	325.65	300.11	0.00

Table 4.10.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	44.40	46.18	44.77	44.40	42.85	38.10	39.59	34.00
Marketed Production	39.60	41.15	39.69	39.34	40.29	35.66	36.94	31.81
Reinjection	1.74	1.74	1.74	1.99	1.82	1.47	1.47	1.36
Flaring	1.21	1.15	1.15	1.12	1.20	1.00	1.19	0.72
Shrinkage	0.00	0.00	1.80	1.24	0.00	0.00	0.00	0.00
Other Losses	1.85	2.14	0.39	0.71	0.00	0.00	0.00	0.11

4.10.3 Domestic Consumption and Trade

Table 4.10.3.1 Domestic Gas Consumption (Bcm)

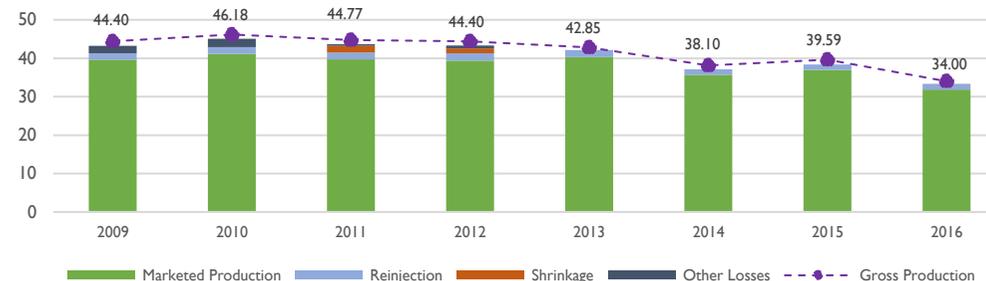
	2009	2010	2011	2012	2013	2014	2015	2016
Industrial	1.71	1.71	1.70	1.69	1.66	1.59	1.28	0.88
Power Generation	3.13	3.26	3.08	3.05	3.27	3.11	3.04	2.81
Petrochemical (feedstock)	11.44	11.55	11.52	11.41	11.69	11.26	11.57	10.58
Refineries	0.72	0.76	0.73	0.73	0.76	0.58	0.75	0.78
Others	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00
Totals	17.00	17.28	17.04	16.88	17.38	20.14	16.64	15.05

Table 4.10.3.2 Trade: Natural Gas Exports

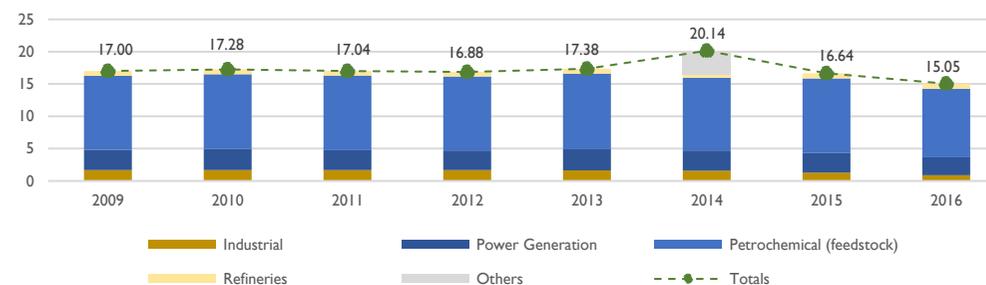
	2009	2010	2011	2012	2013	2014	2015	2016	
LNG	Bcm*	19.76	19.77	18.32	18.96	19.00	18.94	16.90	14.27
	MMT	14.53	14.54	13.47	13.94	13.97	13.93	12.43	10.49

* Gas equivalent

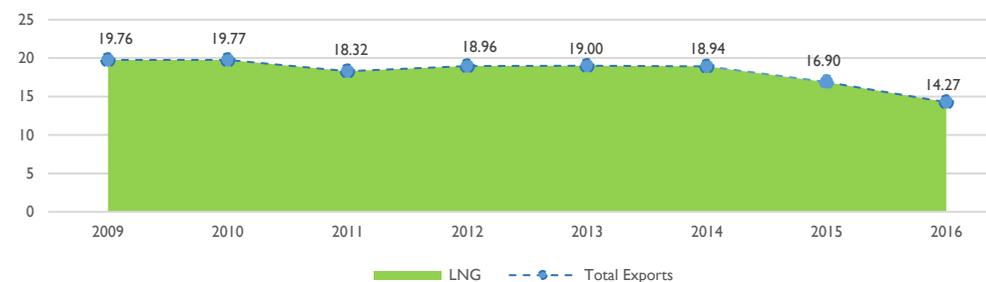
Graph 4.10.2.1. Trinidad and Tobago: Natural Gas Production
2009 - 2016 | Bcm



Graph 4.10.3.1. Trinidad and Tobago: Natural Gas Domestic Consumption
2009 - 2016 | Bcm



Graph 4.10.3.2. Trinidad and Tobago: Natural Gas Exports
2009 - 2016 | Bcm



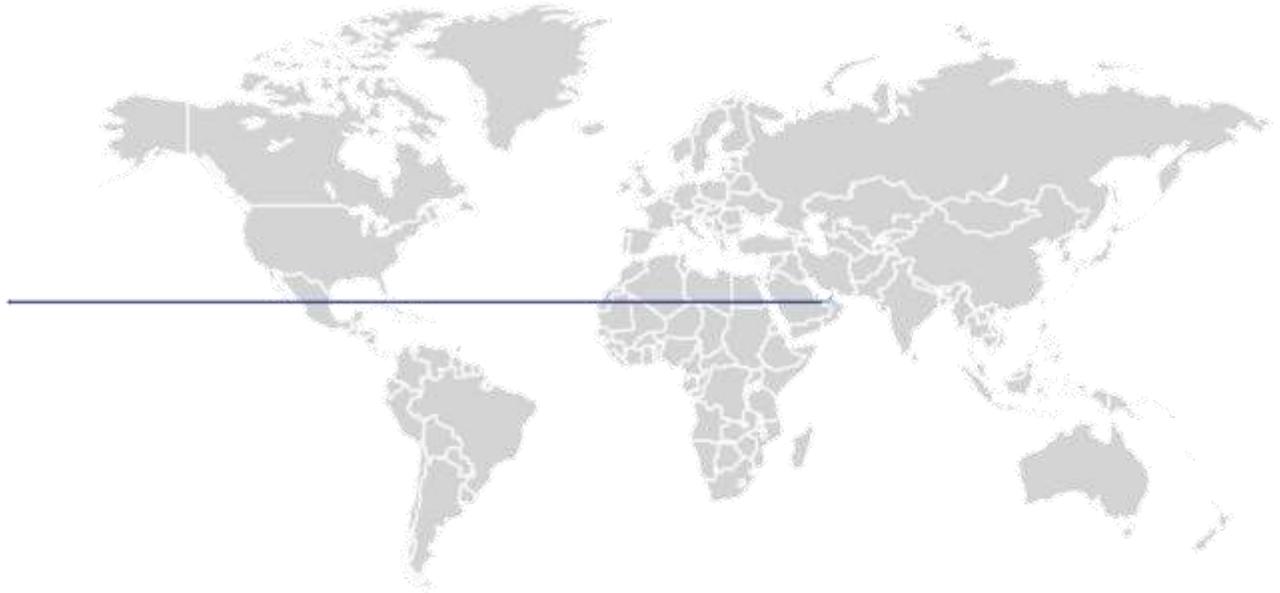
4.10.4 Transport and Plants

4.10.4.1 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Atlantic LNG	4	20.0	Operational	1999 2002 2003 2005	NGC Trinidad and Tobago	Atlantic LNG



UNITED ARAB EMIRATES



Population:
9 121 167



Capital:
Abu Dhabi



Continent:
Middle East



Currency:
United Arab
Emirates Dirham



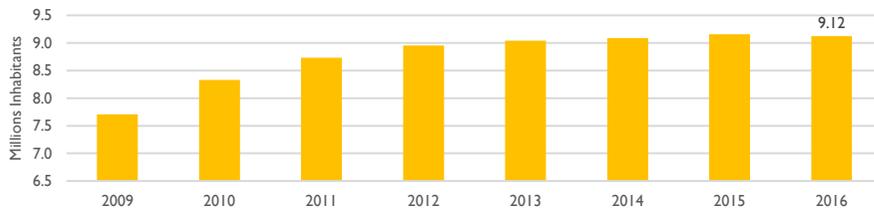
Time Zone:
Gulf
GMT+4

4.1.1.1 Macroeconomics

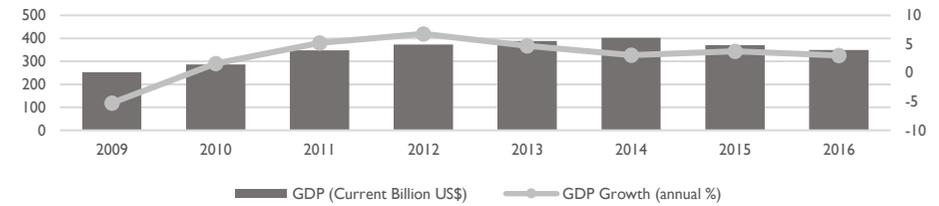
4.1.1.1.1 United Arab Emirates Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	7,705,423	8,329,453	8,734,722	8,952,542	9,039,978	9,086,139	9,15,6963	9,121,167
GDP (Current Billion US\$)	253.55	286.05	348.53	373.43	388.60	401.96	370.30	348.74
GDP Growth (annual %)	-5.24	1.64	5.21	6.79	4.73	3.08	3.76	3.04
GDP per capita (Current US\$)	32,905.05	34,341.91	39,901.22	41,712.40	42,986.66	44,238.60	40,438.76	38,234.47
Exports of Goods and Services (% of GDP)	79.65	78.75	90.33	100.63	101.02	97.35	97.36	103.82
Exports of Goods and Services (Current Billion US\$)	201.96	225.27	314.83	375.80	392.57	391.30	360.52	362.06
Imports of Goods and Services (Current Billion US\$)	187.14	226.06	284.50	318.57	331.20	357.82	355.56	353.76
Imports of Goods and Services (% of GDP)	73.81	79.03	81.63	85.31	85.23	89.02	96.02	101.44
Inflation consumer prices (annual %)	-15.18	11.00	15.81	0.33	-0.64	0.35	-11.21	1.62
Energy use (kg of oil equivalent per capita)	7,780.64	7,406.25	7,365.55	7,639.18	7,737.70	7,756.18	-	-

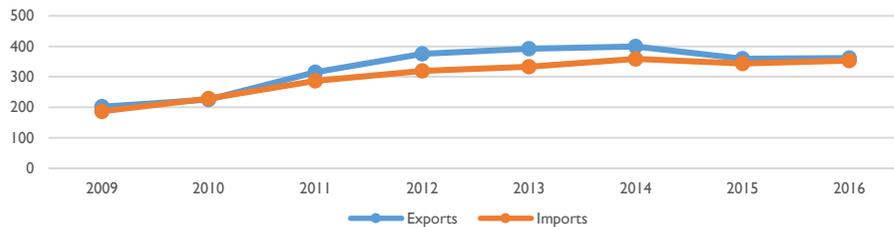
Graph 4.1.1.1.1. United Arab Emirates: Population
2009 - 2016 | Millions Inhabitants



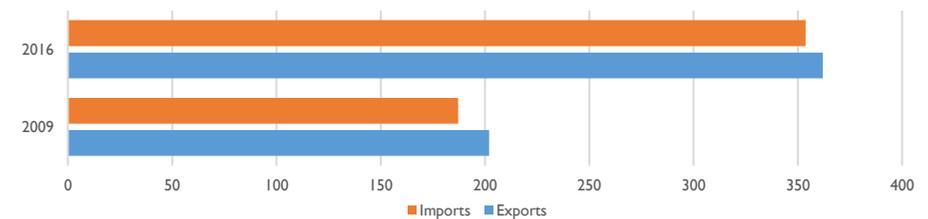
Graph 4.1.1.1.2. United Arab Emirates: GDP
2009 - 2016 | Current Billion US\$



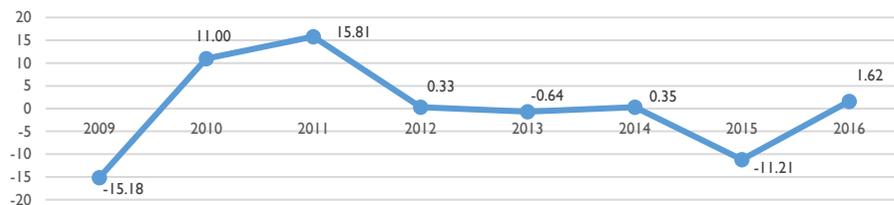
Graph 4.1.1.1.3. United Arab Emirates: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



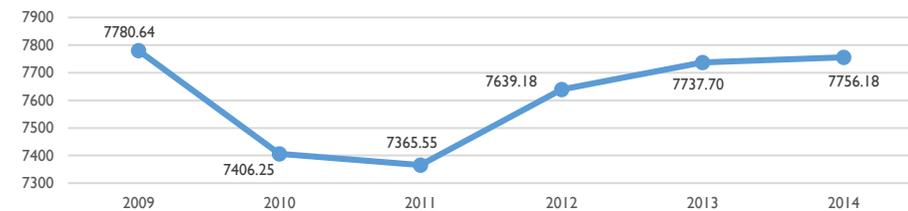
Graph 4.1.1.1.4. United Arab Emirates: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 4.1.1.1.5. United Arab Emirates: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 4.1.1.1.6. United Arab Emirates: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



4.11.2 Reserves and Production

Table 4.11.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50	6,040.50

Table 4.11.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	71.04	74.87	77.34	77.46	78.66	78.87	85.30	93.40
Marketed Production	47.28	49.52	50.55	52.21	52.51	52.45	58.50	67.23
Reinjection	19.50	19.86	21.31	20.04	20.74	20.96	21.26	20.75
Flaring	0.97	0.97	0.98	1.02	1.02	1.02	1.04	1.02
Other Losses	3.29	4.52	4.50	4.19	4.39	4.44	4.50	4.40

4.11.3 Domestic Consumption and Trade

Table 4.11.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	59.10	60.80	63.20	65.60	66.90	65.90	73.80	76.60

Table 4.11.3.2 Trade: Natural Gas Exports

		2009	2010	2011	2012	2013	2014	2015	2016
LNG	Bcm*	6.92	7.82	7.57	7.37	7.19	7.91	7.98	8.06
	MMT	5.09	5.75	5.57	5.42	5.29	5.82	5.87	5.93

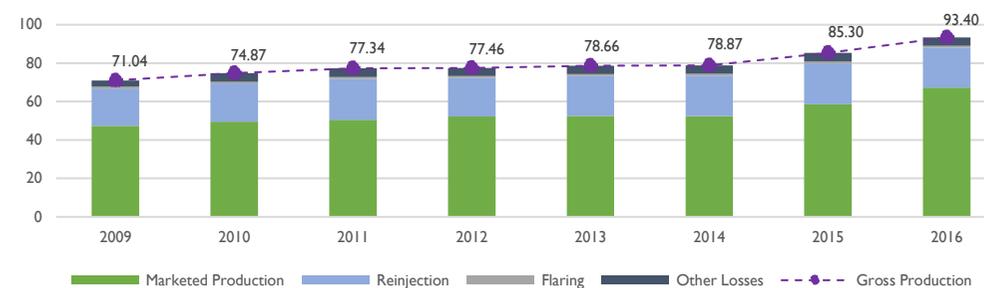
* Gas equivalent

Table 4.11.3.3 Trade: Natural Gas Imports

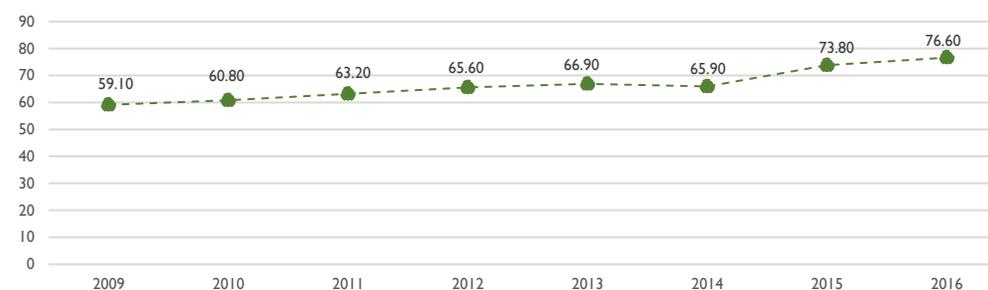
		2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)		17.25	17.25	17.25	17.28	17.95	18.10	17.70	17.90
LNG	Bcm*	0.00	0.00	0.54	0.08	0.41	0.26	1.04	0.03
	MMT	0.00	0.40	0.06	0.30	0.19	0.76	0.02	0.74
Totals (Bcm)		17.25	17.25	17.79	17.36	18.36	18.36	18.74	17.93

* Gas equivalent

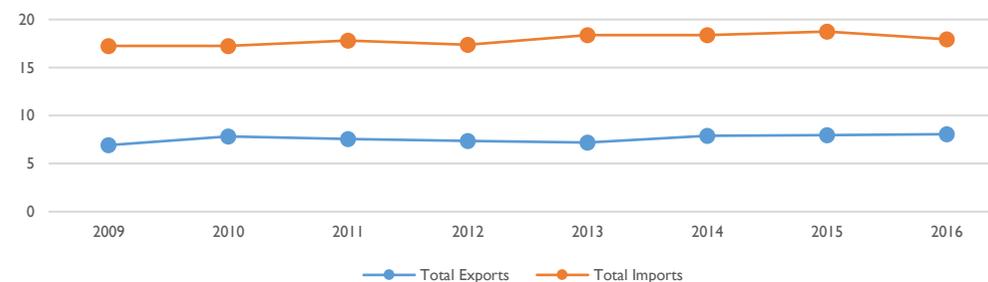
Graph 4.11.2.1. United Arab Emirates: Natural Gas Production
2009 - 2016 | Bcm



Graph 4.11.3.1. United Arab Emirates: Natural Gas Domestic Consumption
2009 - 2016 | Bcm



Graph 4.11.3.2. United Arab Emirates: Natural Gas Exports
2009 - 2016 | Bcm



4.1.1.4 Transport and Plants

4.1.1.4.1 Natural Gas Exports Pipelines

Pipeline	Connection		Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To								
Dolphin	Qatar	UAE	Dolphin Energy	Dolphin Energy	Operational	21.0	Import	2006	364	36.00

4.1.1.4.2 LNG Carrier Fleet

Number of Vessels	Status	Total Capacity	
		1000Scm	1000MT
9	Operational	1233.0	560.0

4.1.1.4.3 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Das Island	3	5.60	Operational	1977 1977 1994	ADNOC, Mitsui, BP, Total	ADGAS

4.1.1.4.4 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Ruwais	6.9	Operational	2016	-	GASCO
Jabal Ali	10.3	Operational	2010	-	DUSP



Bolivarian Republic of

VENEZUELA



Population:
31 028 637



Capital:
Caracas



Continent:
South
America



Currency:
Venezuelan
Bolivar



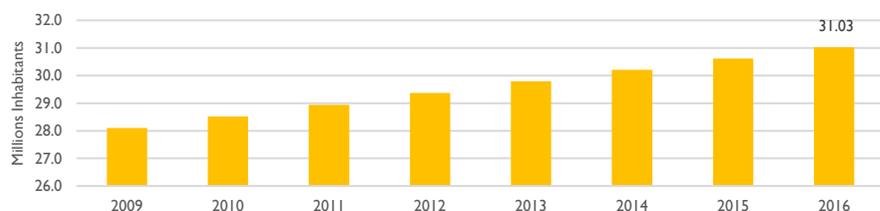
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GMT-4

4.12.1 Macroeconomics

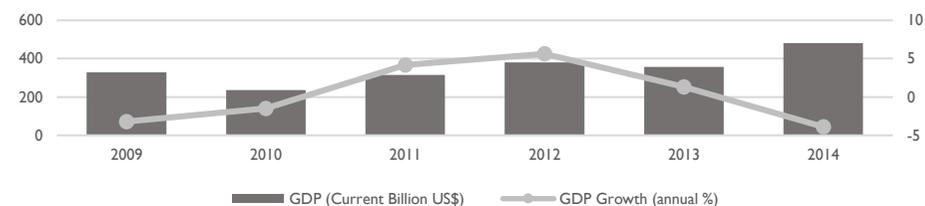
4.12.1.1 Venezuela Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	28,105,913	28,524,411	28,944,070	29,365,451	29,786,263	30,206,307	30,620,404	31,028,637
GDP (Current Billion US\$)	328.96	236.47	315.70	380.34	356.48	481.15	-	-
GDP Growth (annual %)	-3.20	-1.49	4.18	5.63	1.34	-3.89	-	-
GDP per capita (Current US\$)	11,704.30	8,290.09	10,907.24	12,951.96	11,967.93	15,928.79	-	-
Exports of Goods and Services (% of GDP)	-	-	-	-	-	-	-	-
Exports of Goods and Services (Current Billion US\$)	59.45	67.47	94.53	99.54	-	-	-	-
Imports of Goods and Services (Current Billion US\$)	67.44	69.23	62.33	92.40	-	-	-	-
Imports of Goods and Services (% of GDP)	20.50	29.27	19.74	24.29	30.72	-	-	-
Inflation consumer prices (annual %)	25.10	27.20	27.60	20.10	56.20	68.50	109.68	-
Energy use (kg of oil equivalent per capita)	2,274.51	2,493.47	2,280.73	2,444.10	2,268.06	-	-	-

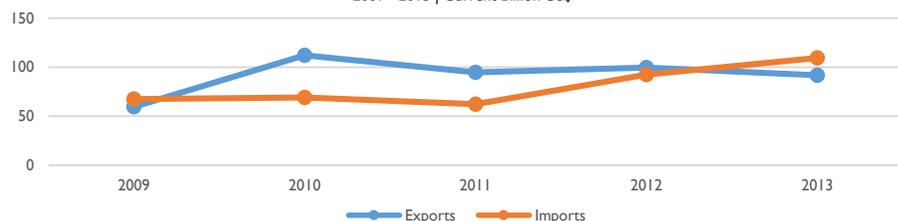
Graph 4.12.1.1. Venezuela: Population
2009 - 2016 | Millions Inhabitants



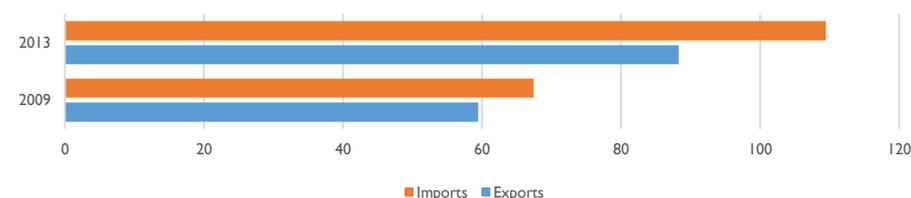
Graph 4.12.1.2. Venezuela: GDP
2009 - 2014 | Current Billion US\$



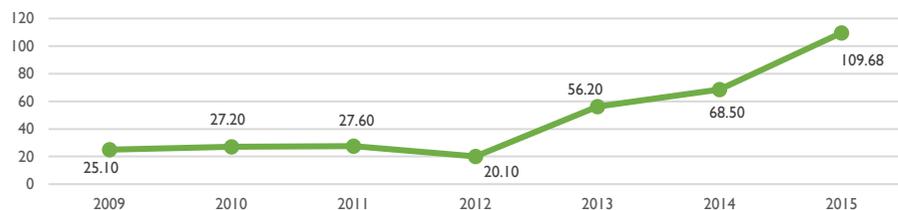
Graph 4.12.1.3. Venezuela: Exports and Imports (Goods and Services)
2009 - 2013 | Current Billion US\$



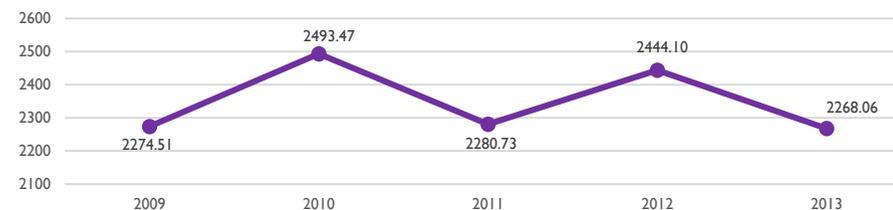
Graph 4.12.1.4. Venezuela: Exports and Imports (Goods and Services)
2009 vs 2013 | Current Billion US\$



Graph 4.12.1.5. Venezuela: Inflation (Consumer Prices)
2009 - 2015 | Annual %



Graph 4.12.1.6. Venezuela: Energy Use
2009 - 2013 | kg of Oil Equivalent per Capita



4.12.2 Reserves and Production

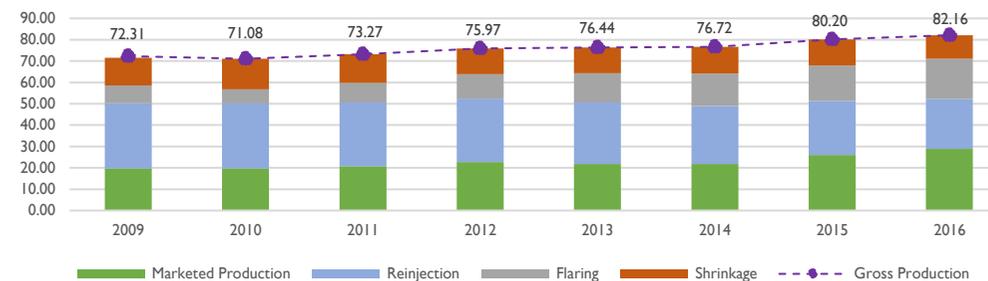
Table 4.12.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	5,065.00	5,525.00	5,528.00	5,563.00	5,581.00	5,617.00	5,701.50	5,739.70

Table 4.12.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	72.31	71.08	73.27	75.97	76.44	76.72	80.20	82.16
Marketed Production	20.52	19.73	20.77	22.73	21.82	21.88	26.00	28.90
Reinjection	30.65	30.39	29.83	29.76	28.77	27.03	25.44	23.42
Flaring	8.24	6.68	9.28	11.35	13.73	15.32	16.54	18.82
Shrinkage	12.90	14.28	13.39	12.14	12.13	12.49	12.21	11.02
Other Losses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Graph 4.12.2.1. Venezuela: Natural Gas Production
2009 - 2016 | Bcm



4.12.3 Domestic Consumption and Trade

Table 4.12.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Residential	0.13	0.14	0.16	0.17	0.18	0.17	0.15	0.14
Industrial	8.78	5.88	6.81	7.03	6.06	4.95	5.75	4.60
Power Generation	6.32	5.90	5.43	6.90	7.15	7.21	9.69	11.31
Petrochemical (feedstock)	4.24	4.45	4.73	4.43	4.34	4.70	4.41	4.55
Refineries	4.06	4.53	4.75	4.77	4.70	4.98	4.96	5.45
Totals	23.53	20.89	21.87	23.29	22.44	22.01	24.96	26.05

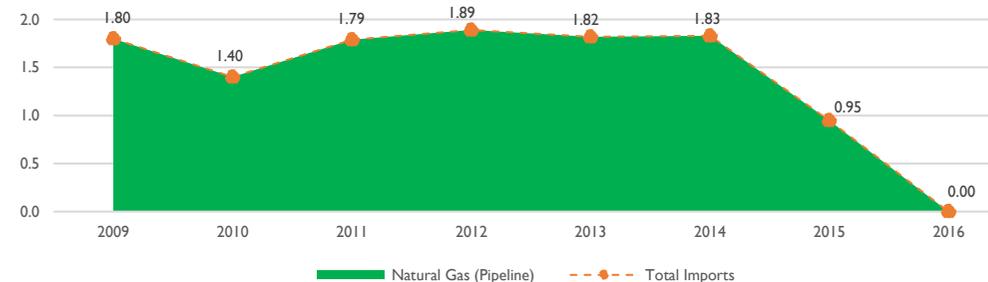
Graph 4.12.3.1. Venezuela: Natural Gas Domestic Consumption
2009 - 2016 | Bcm



Table 4.12.3.2 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	1.80	1.40	1.79	1.89	1.82	1.83	0.95	0.00

Graph 4.12.3.2. Venezuela: Natural Gas Imports
2009 - 2016 | Bcm



4.12.4 Transport and Plants

4.12.4.1 Natural Gas Exports 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	2007	225	26

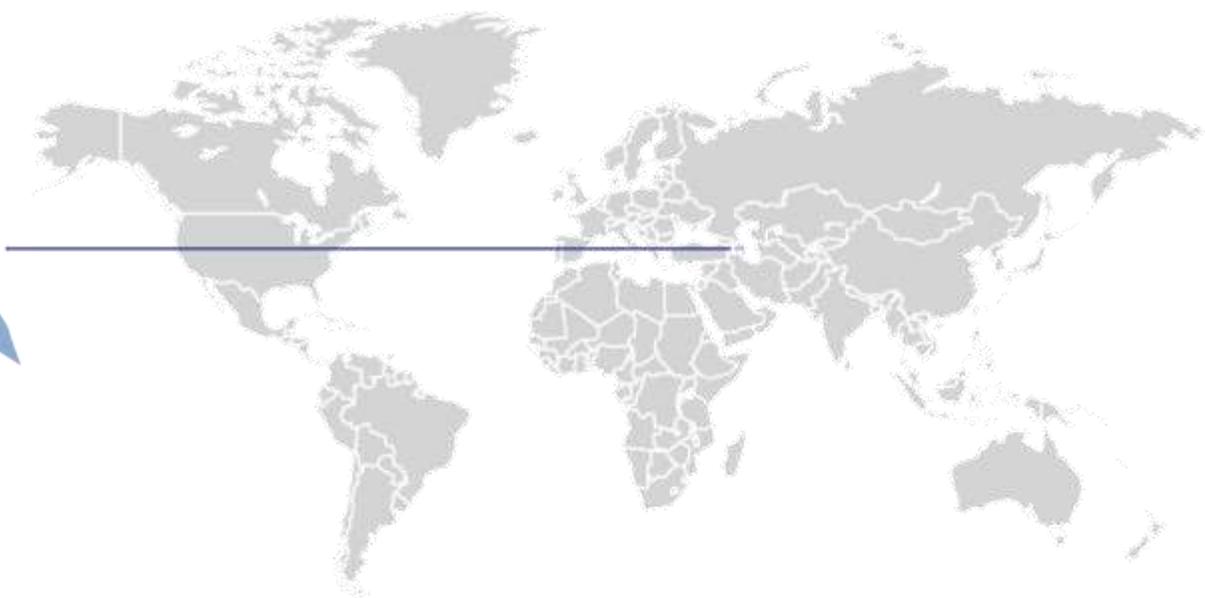
Section 5

GECF Observer Countries



Republic of

AZERBAIJAN



Population:
9 762 274



Capital:
Baku



Continent:
Euroasia



Currency:
Azerbaijani
Manat



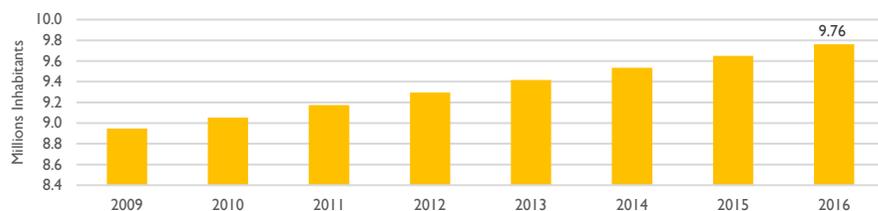
Time Zone:
Azerbaijan
GMT+4

5.1.1 Macroeconomics

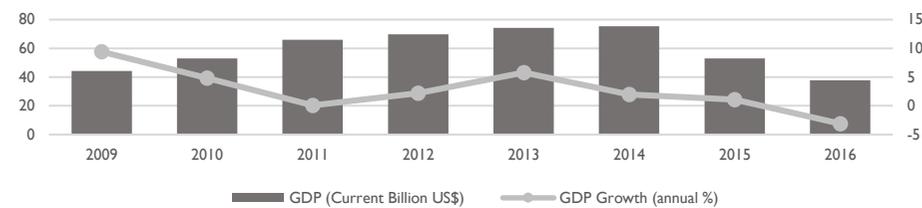
5.1.1.1 Azerbaijan Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	8,947,243	9,054,332	9,173,082	9,295,784	9,416,801	9,535,079	9,649,341	9,762,274
GDP (Current Billion US\$)	44.29	52.90	65.95	69.68	74.16	75.24	53.07	37.85
GDP Growth (annual %)	9.41	4.85	0.07	2.20	5.80	2.00	1.10	-3.10
GDP per capita (Current US\$)	4,950.29	5,842.81	7,189.69	7,496.34	7,875.76	7,891.30	5,500.31	3,876.94
Exports of Goods and Services (% of GDP)	51.64	54.30	56.43	52.97	48.33	43.26	37.79	46.45
Exports of Goods and Services (Current Billion US\$)	22.87	28.73	37.21	36.91	35.84	32.55	20.06	17.58
Imports of Goods and Services (Current Billion US\$)	10.24	10.94	15.88	17.62	19.77	19.72	18.47	16.53
Imports of Goods and Services (% of GDP)	23.11	20.68	24.08	25.29	26.65	26.21	34.81	43.67
Inflation consumer prices (annual %)	1.40	5.67	7.85	1.01	2.38	1.39	4.17	4.18
Energy use (kg of oil equivalent per capita)	1,334.17	1,279.55	1,369.35	1,472.90	1,474.00	1,502.08	-	-

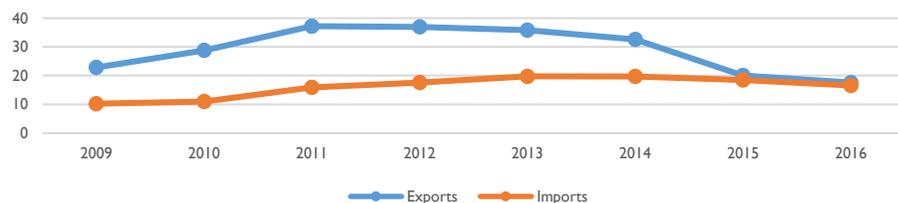
Graph 5.1.1.1. Azerbaijan: Population
2009 - 2016 | Millions Inhabitants



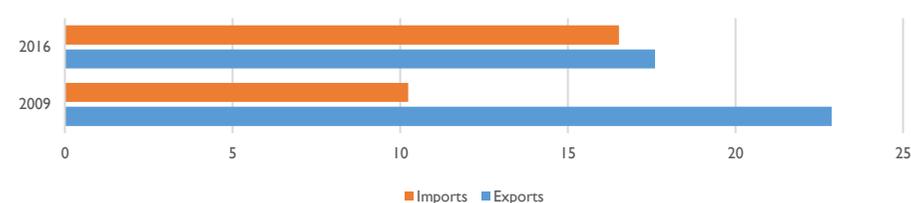
Graph 5.1.1.2. Azerbaijan: GDP
2009 - 2016 | Current Billion US\$



Graph 5.1.1.3. Azerbaijan: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



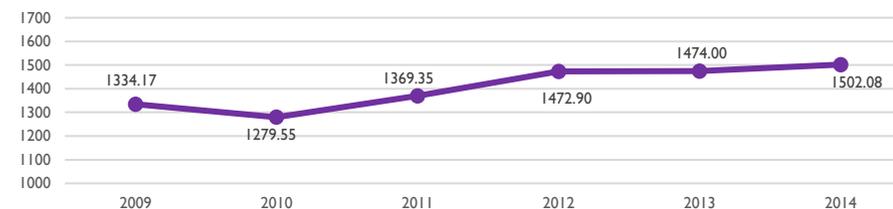
Graph 5.1.1.4. Azerbaijan: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 5.1.1.5. Azerbaijan: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 5.1.1.6. Azerbaijan: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



5.1.2 Reserves and Production

Table 5.1.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	1,310.00	1,311.33	1,311.33	1,288.67	1,283.30	1,261.00	1,192.00	1,100.00

Table 5.1.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	21.86	24.37	23.88	25.00	27.52	28.10	28.00	28.11
Marketed Production	15.06	15.37	15.08	15.85	16.45	17.55	17.80	17.50
Reinjection	3.90	5.50	5.40	6.15	7.75	7.80	7.40	7.65
Flaring	1.50	1.30	1.10	0.65	0.65	0.50	0.50	0.55
Other Losses	1.40	2.20	2.30	2.35	2.67	2.25	2.30	2.41

Graph 5.1.2.1. Azerbaijan: Natural Gas Production



5.1.3 Domestic Consumption and Trade

Table 5.1.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	8.90	9.67	8.67	9.36	9.27	10.25	10.60	9.58

Graph 5.1.3.1. Azerbaijan: Natural Gas Domestic Consumption

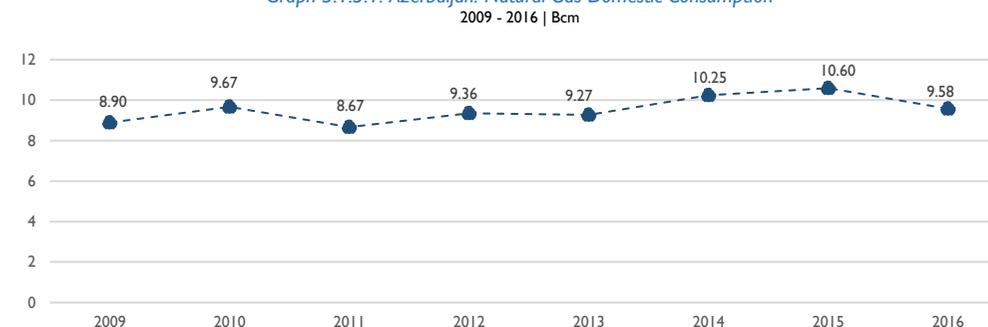


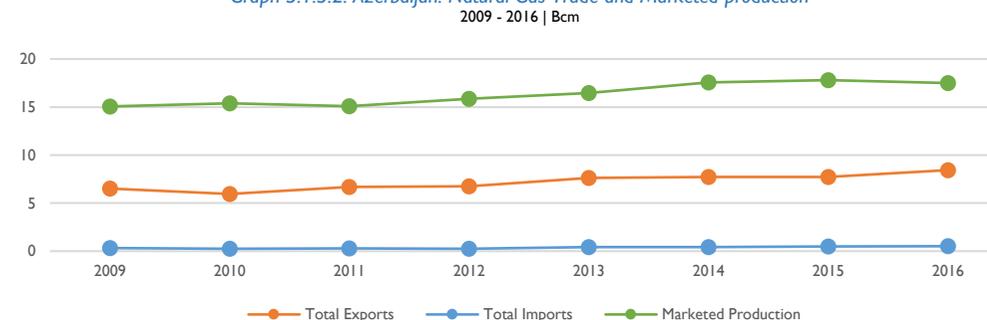
Table 5.1.3.2 Trade: Natural Gas Exports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	6.50	5.95	6.68	6.74	7.61	7.74	7.71	8.44

Table 5.1.3.3 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	0.34	0.25	0.28	0.25	0.44	0.44	0.50	0.52

Graph 5.1.3.2. Azerbaijan: Natural Gas Trade and Marketed production



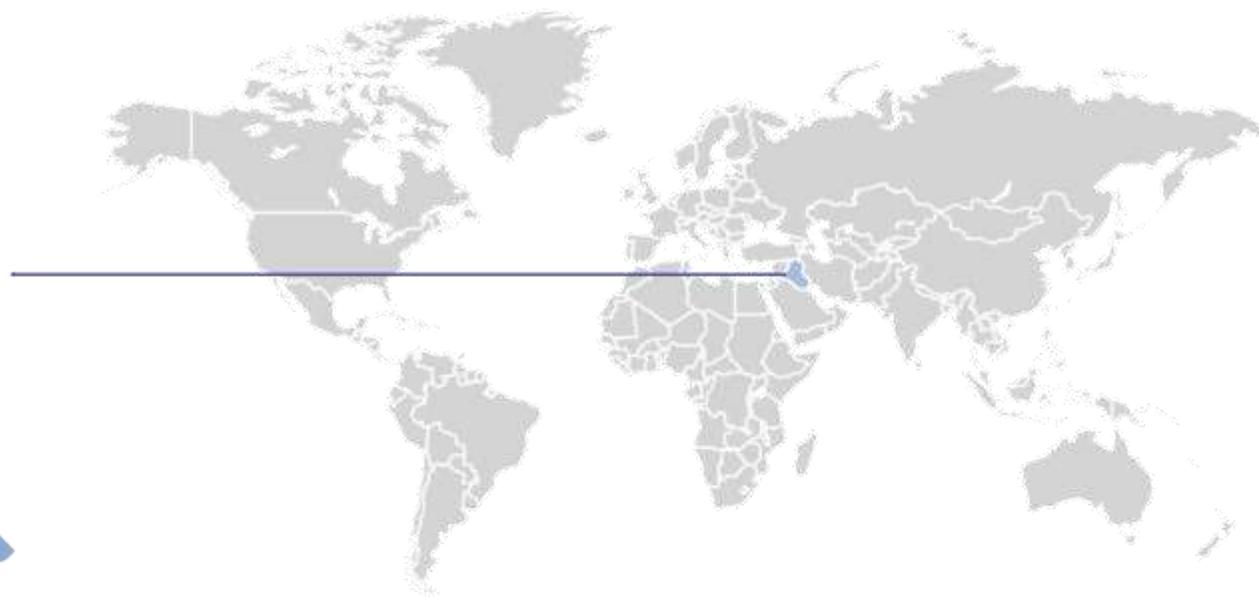
5.1.4 Transport and Plants

5.1.4.1 Natural Gas Exports Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Salman-Nakhchivan	Iran	Azerbaijan	-	-	-	Operational	-	Export	-	-	-
South Caucasus (Baku-Tbilissi-Erzurum)	Azerbaijan	Turkey	-	BP, TPAO, SOCAR, Petronas, Lukoil, Naftiran, Intertrade	BP	Operational	25.0	Export	2006	692	42
Astara-Kazi-Magomed	Azerbaijan	Iran	-	SOCAR NIGC	-	Operational	10.0	Import	1970	1,475	40
Kazakhstan-Azerbaijan	Kazakhstan	Azerbaijan	-	-	-	Operational	-	Import	-	-	-
Mozdok-Makhachkala-Kazi Magomed	Russia	Azerbaijan	-	-	-	Operational	-	Import	-	-	-
Trans-Anatolian	Azerbaijan	Georgia-Turkey	-	TANAP	SOCAR	Under Construction	31.0	Export	2018	1,850	56/42
Trans-Caspian	Azerbaijan	Turkmenistan	-	-	-	Proposed	30.0	Export	-	300	-



Republic of
IRAQ



Population:
37 202 572



Capital:
Baghdad



Continent:
Middle East



Currency:
Iraqi Dinar



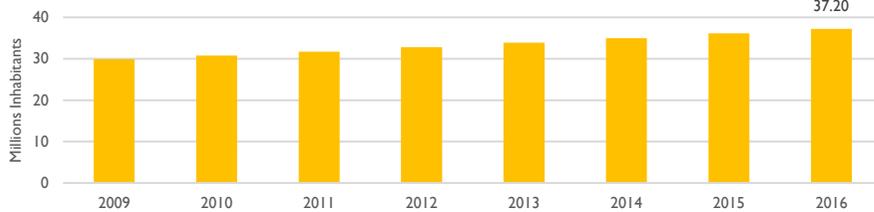
Time Zone:
Arabia
GMT+3

5.2.1 Macroeconomics

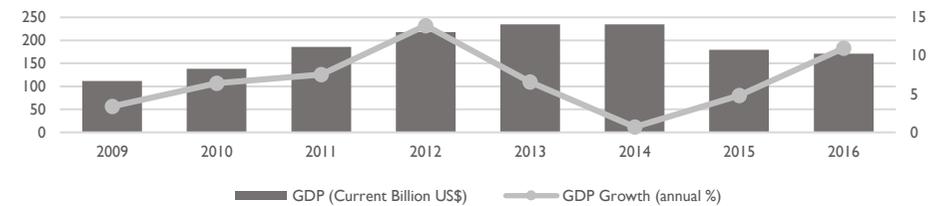
5.2.1.1 Iraq Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	29,894,652	30,762,701	31,727,053	32,776,571	33,883,145	35,006,080	36,115,649	37,202,572
GDP (Current Billion US\$)	111.66	138.52	185.75	218.00	234.65	234.65	179.64	171.49
GDP Growth (annual %)	3.38	6.40	7.55	13.94	6.57	0.70	4.80	11.00
GDP per capita (Current US\$)	3,735.14	4,502.75	5,854.61	6,651.12	6,925.22	6,703.07	4,974.03	4,609.60
Exports of Goods and Services (% of GDP)	39.40	39.42	44.42	44.45	39.68	41.34	34.96	32.56
Exports of Goods and Services (Current Billion US\$)	43.99	54.60	82.51	96.90	93.10	97.00	62.80	55.83
Imports of Goods and Services (Current Billion US\$)	43.87	47.21	51.55	63.44	84.50	86.70	73.60	67.32
Imports of Goods and Services (% of GDP)	39.29	34.08	27.75	29.10	36.01	36.95	40.97	39.26
Inflation consumer prices (annual %)	6.87	2.88	5.80	6.09	1.88	2.24	1.39	-
Energy use (kg of oil equivalent per capita)	1,101.99	1,219.37	1,293.56	1,399.27	1,456.66	1,413.50	-	-

Graph 5.1.1.1. Iraq: Population
2009 - 2016 | Millions Inhabitants



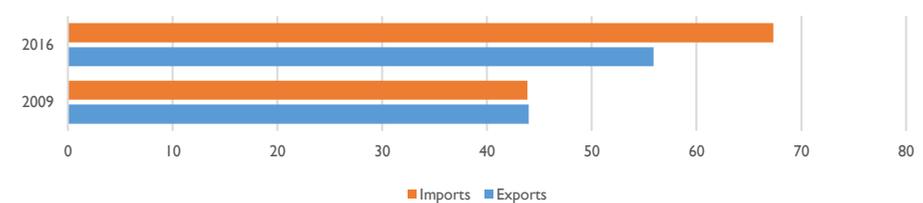
Graph 5.1.1.2. Iraq: GDP
2009 - 2016 | Current Billion US\$



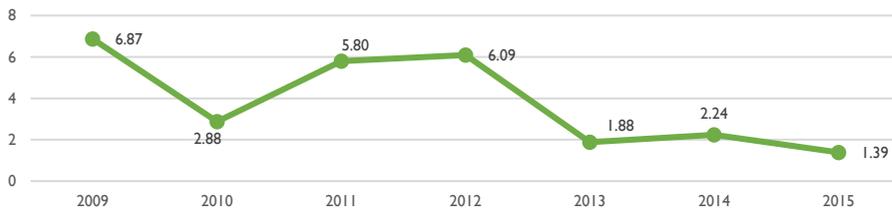
Graph 5.1.1.3. Iraq: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



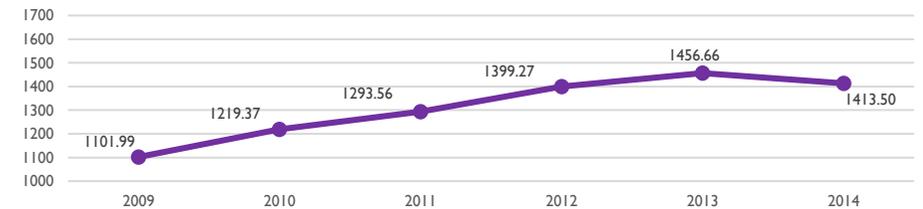
Graph 5.1.1.4. Iraq: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 5.1.1.5. Iraq: Inflation (Consumer Prices)
2009 - 2015 | Annual %



Graph 5.1.1.6. Iraq: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



5.2.2 Reserves and Production

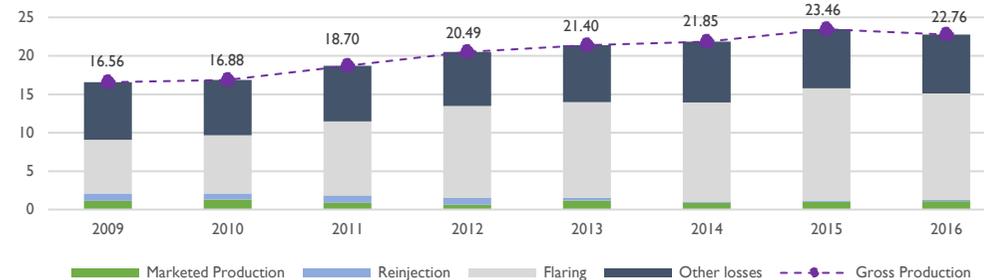
Table 5.2.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	3,185.00	3,200.00	3,400.00	3,460.00	3,460.00	3,600.00	3,700.00	3,700.00

Table 5.2.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	16.56	16.88	18.70	20.49	21.40	21.85	23.46	22.76
Marketed Production	1.13	1.30	0.89	0.63	1.19	0.90	1.00	1.10
Reinjection	0.97	0.81	0.97	0.88	0.34	0.15	0.16	0.17
Flaring	6.98	7.57	9.61	11.98	12.43	12.87	14.61	13.85
Other Losses	7.48	7.20	7.23	7.00	7.44	7.93	7.69	7.64

Graph 5.2.2.1. Iraq: Natural Gas Production
2009 - 2016 | Bcm

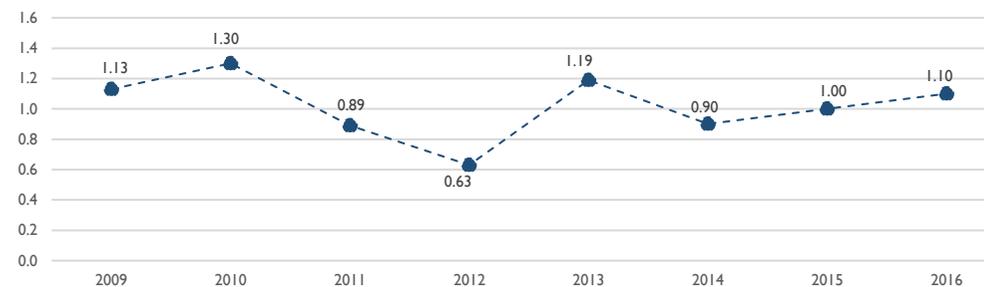


5.2.3 Domestic Consumption and Trade

Table 5.2.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	1.13	1.30	0.89	0.63	1.19	0.90	1.00	1.10

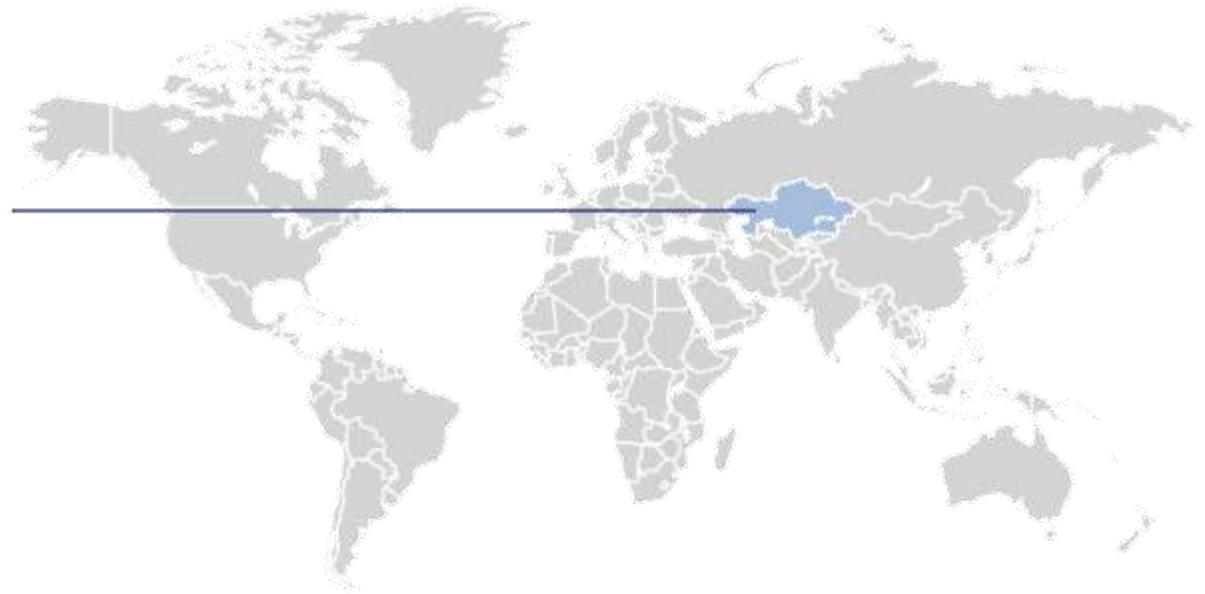
Graph 5.2.3.1. Iraq: Natural Gas Domestic Consumption
2009 - 2016 | Bcm





Republic of

KAZAKHSTAN



Population:
17 797 032



Capital:
Astana



Continent:
Asia



Currency:
Kazakhstani
Tenge



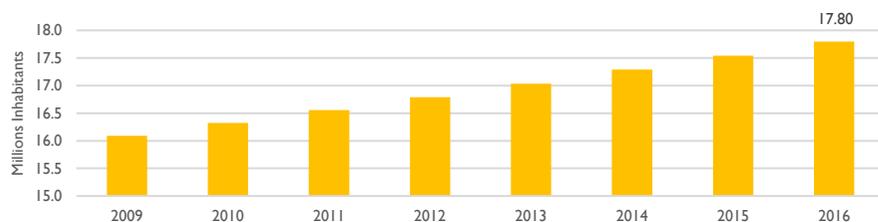
Time Zone:
Oral,Alma-Ata
GMT+6 (Astana)

5.3.1 Macroeconomics

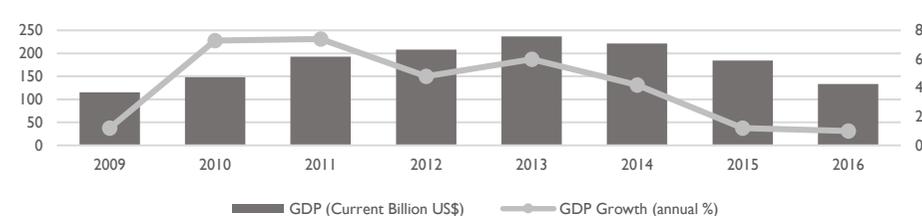
5.3.1.1 Kazakhstan Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	16,092,701	16,321,581	16,556,600	16,791,425	17,035,275	17,289,224	17,544,126	17,797,032
GDP (Current Billion US\$)	115.31	148.05	192.63	208.00	236.63	221.42	184.39	133.66
GDP Growth (annual %)	1.20	7.30	7.40	4.80	6.00	4.20	1.20	1.00
GDP per capita (Current US\$)	7,165.28	9,070.65	11,634.42	12,387.19	13,890.86	12,806.57	10,509.98	7,510.08
Exports of Goods and Services (% of GDP)	41.84	44.24	46.46	44.11	38.62	39.34	28.52	32.64
Exports of Goods and Services (Current Billion US\$)	48.24	65.50	89.50	91.75	91.38	87.11	52.47	43.63
Imports of Goods and Services (Current Billion US\$)	39.12	44.26	51.34	61.60	63.40	56.75	45.24	38.98
Imports of Goods and Services (% of GDP)	33.93	29.89	26.65	29.61	26.79	25.63	24.53	29.16
Inflation consumer prices (annual %)	7.31	7.12	8.35	5.11	5.84	6.72	6.65	-
Energy use (kg of oil equivalent per capita)	3,944.32	4,234.93	4,670.99	4,399.12	4,786.67	4,434.40	-	-

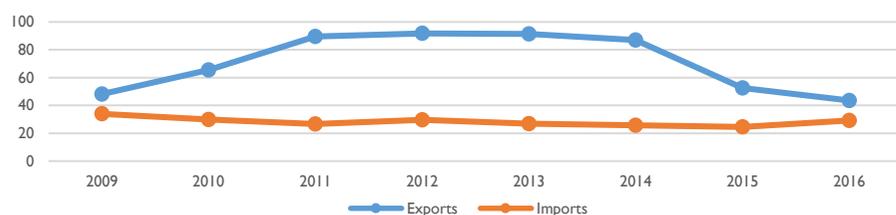
Graph 5.3.1.1. Kazakhstan: Population
2009 - 2016 | Millions Inhabitants



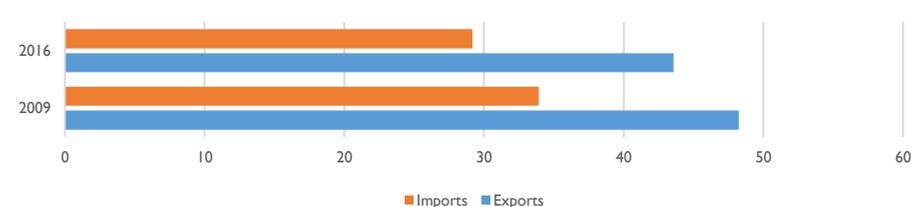
Graph 5.3.1.2. Kazakhstan: GDP
2009 - 2016 | Current Billion US\$



Graph 5.3.1.3. Kazakhstan: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



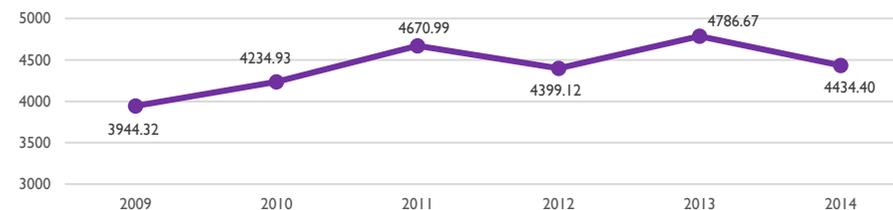
Graph 5.3.1.4. Kazakhstan: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 5.3.1.5. Kazakhstan: Inflation (Consumer Prices)
2009 - 2015 | Annual %



Graph 5.3.1.6. Kazakhstan: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



5.3.2 Reserves and Production

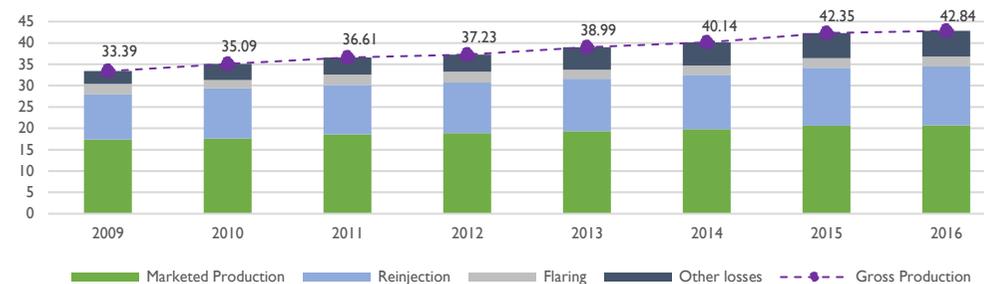
Table 5.3.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	1,885.00	1,925.00	1,925.00	1,920.00	1,916.00	1,916.00	1,905.00	1,900.00

Table 5.3.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	33.39	35.09	36.61	37.23	38.99	40.14	42.35	42.84
Marketed Production	17.39	17.59	18.61	18.92	19.34	19.79	20.65	20.73
Reinjection	10.50	11.80	11.50	11.80	12.25	12.75	13.50	13.75
Flaring	2.50	1.90	2.50	2.56	2.15	2.15	2.30	2.35
Other Losses	3.00	3.80	4.00	3.95	5.25	5.45	5.90	6.01

Graph 5.3.2.1. Kazakhstan: Natural Gas Production
2009 - 2016 | Bcm



5.3.3 Domestic Consumption and Trade

Table 5.3.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	9.24	10.57	11.80	11.60	12.35	13.33	13.26	13.45

Graph 5.3.3.1. Kazakhstan: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

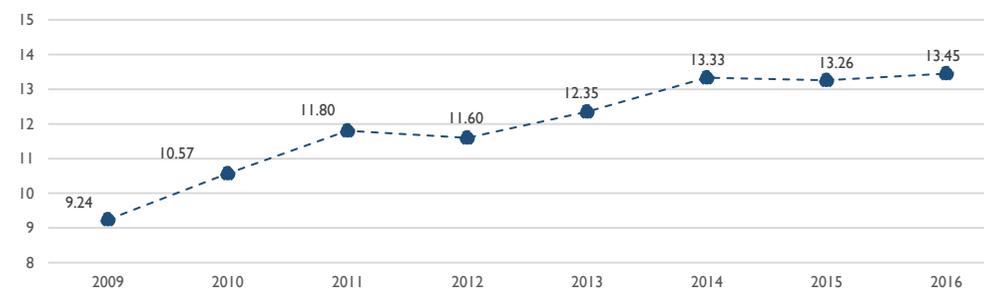


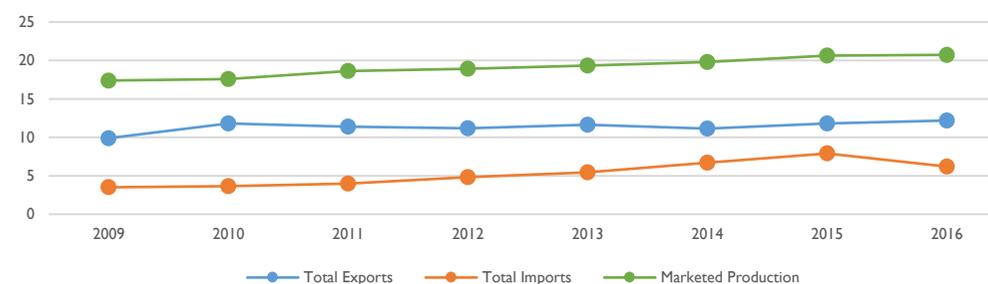
Table 5.3.3.2 Trade: Natural Gas Exports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	9.89	11.79	11.37	11.17	11.62	11.12	11.80	12.19

Table 5.3.3.3 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline	3.50	3.64	3.99	4.82	5.44	6.70	7.90	6.20

Graph 5.3.3.2. Kazakhstan: Natural Gas Trade and Marketed Production
2009 - 2016 | Bcm



5.3.4 Transport and Plants

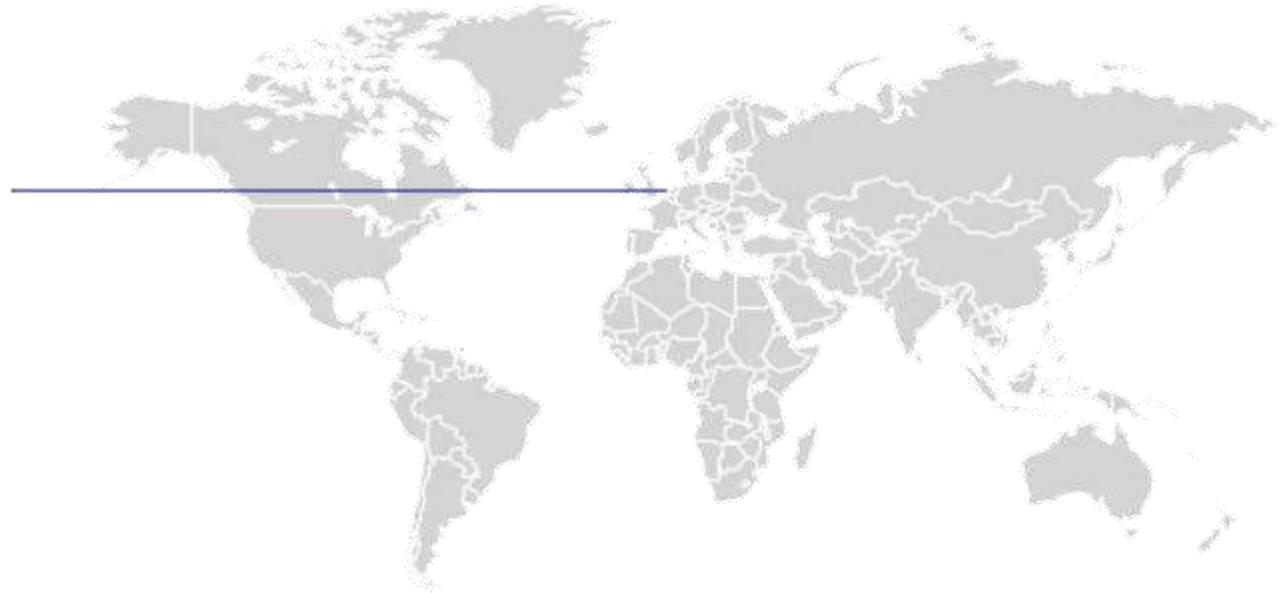
5.3.4.1 Natural Gas Exports Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Azerbaijan	Kazakhstan	Azerbaijan	-	-	-	Operational	-	Export	-	-	-
Russia	Russia	Kazakhstan	-	-	-	Operational	-	Import	-	-	-
Bukhara–Tashkent– Bishkek–Almaty pipeline	Uzbekistan	Kazakhstan	-	Uzbekneftegas, KyrKazGas, KazTransGas	Uzbekneftegas, KyrKazGas, KazTransGas	Operational	22.0	Import	1971	-	40
Turkmenistan	Turkmenistan	Kazakhstan	-	-	-	Operational	-	Import	-	-	-



Kingdom of

NETHERLANDS



Population:
17 018 408



Capital:
Amsterdam



Continent:
Europe



Currency:
Euro



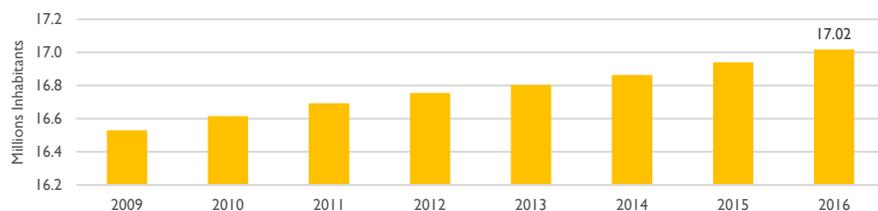
Time Zone:
Central European, Atlantic
GMT+2 (Amsterdam)

5.4.1 Macroeconomics

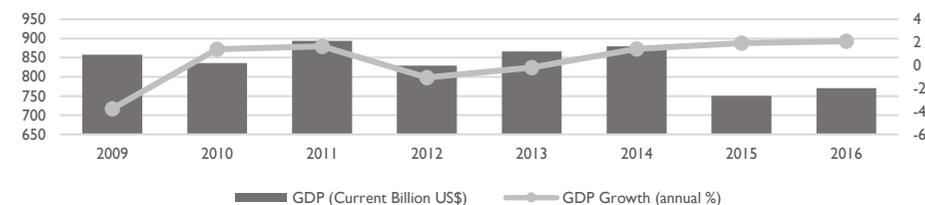
5.4.1.1 Netherlands Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	16,530,388	16,615,394	16,693,074	16,754,962	16,804,432	16,865,008	16,939,923	17,018,408
GDP (Current Billion US\$)	857.93	836.39	893.76	828.95	866.68	879.64	750.32	770.85
GDP Growth (annual %)	-3.77	1.40	1.66	-1.06	-0.19	1.42	1.95	2.14
GDP per capita (Current US\$)	51,900.34	50,338.25	53,540.61	49,474.71	51,574.49	52,157.41	44,292.88	45,294.78
Exports of Goods and Services (% of GDP)	63.15	71.95	77.36	81.94	82.01	82.57	82.46	80.81
Exports of Goods and Services (Current Billion US\$)	541.82	601.82	691.38	679.21	710.77	726.27	618.74	622.91
Imports of Goods and Services (Current Billion US\$)	478.95	531.87	615.05	599.62	618.07	630.90	537.86	538.96
Imports of Goods and Services (% of GDP)	55.83	63.59	68.82	72.33	71.31	71.72	71.68	69.92
Inflation consumer prices (annual %)	1.19	1.28	2.34	2.46	2.51	0.98	0.60	0.32
Energy use (kg of oil equivalent per capita)	4,722.11	5,025.32	4,636.70	4,646.26	4,600.18	4,325.52	4,233.04	-

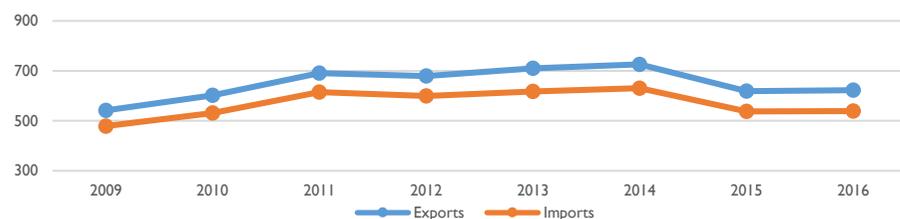
Graph 5.4.1.1. Netherlands: Population
2009 - 2016 | Millions Inhabitants



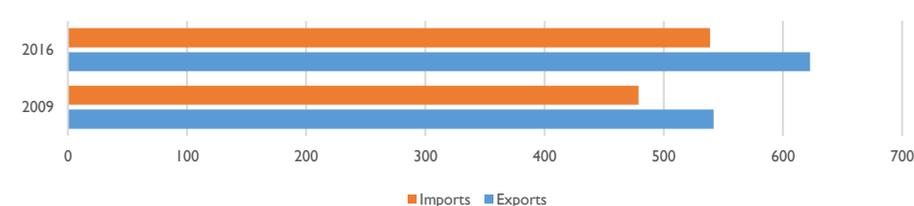
Graph 5.4.1.2. Netherlands: GDP
2009 - 2016 | Current Billion US\$



Graph 5.4.1.3. Netherlands: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



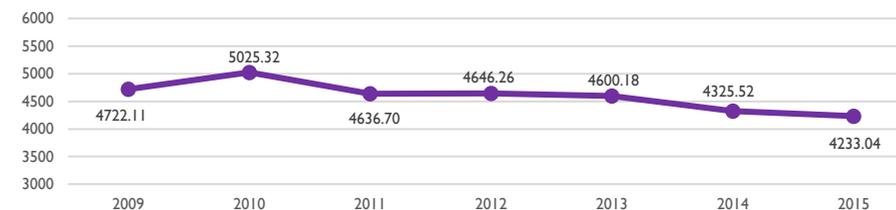
Graph 5.4.1.4. Netherlands: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 5.4.1.5. Netherlands: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 5.4.1.6. Netherlands: Energy Use
2009 - 2016 | kg of Oil Equivalent per Capita



5.4.2 Reserves and Production

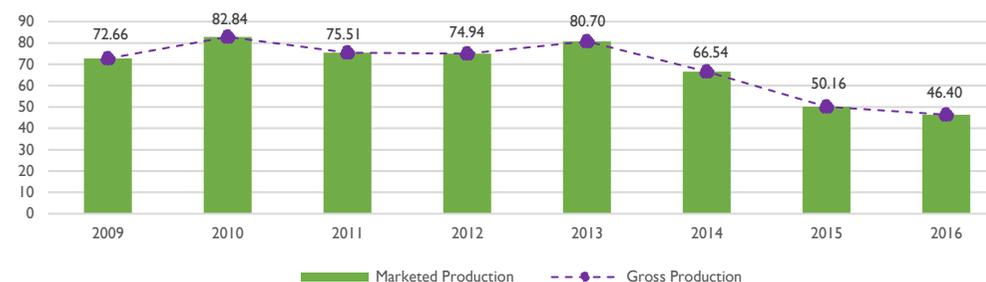
Table 5.4.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	1,225.96	1,129.92	1,036.52	937.84	841.58	736.08	716.06	709.26

Table 5.4.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	72.66	82.84	75.51	74.94	80.70	66.54	50.16	46.40
Marketed Production	72.66	82.84	75.51	74.94	80.70	66.54	50.16	46.40

Graph 5.4.2.1. Netherland: Natural Gas Production
2009 - 2016 | Bcm



5.4.3 Domestic Consumption and Trade

Table 5.4.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	43.06	49.80	43.20	40.70	41.26	35.70	35.85	37.70

Graph 5.4.3.1. Netherlands: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

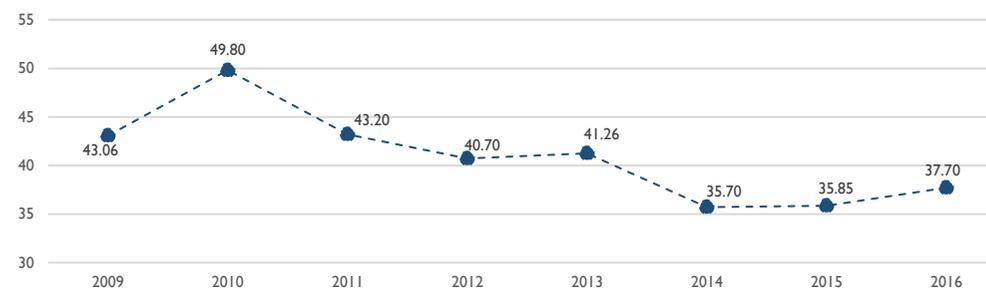


Table 5.4.3.2 Trade: Natural Gas Exports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	50.03	42.33	50.41	54.51	56.69	47.91	42.12	51.76
LNG								
Bcm*	0.00	0.00	0.00	0.00	0.21	0.53	1.04	0.99
MMT	0.00	0.00	0.00	0.00	0.15	0.39	0.76	0.72
Totals (Bcm)	50.03	42.33	50.41	54.51	56.90	48.44	43.16	52.74

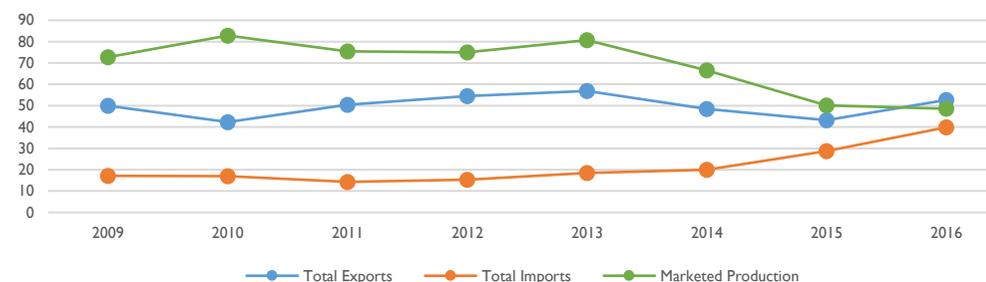
* Gas equivalent

Table 5.4.3.3 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	17.08	16.97	13.57	14.56	17.85	18.94	26.88	38.00
LNG								
Bcm*	0.00	0.00	0.75	0.79	0.69	1.01	1.91	1.87
MMT	0.00	0.00	0.55	0.58	0.51	0.74	1.40	1.37
Totals (Bcm)	17.08	16.97	14.32	15.35	18.54	19.95	28.79	39.87

* Gas equivalent

Graph 5.4.3.2. Netherlands: Natural Gas Trade and Marketed Production
2009 - 2016 | Bcm



5.4.4 Transport and Plants

5.4.4.1 Natural Gas Exports Pipelines

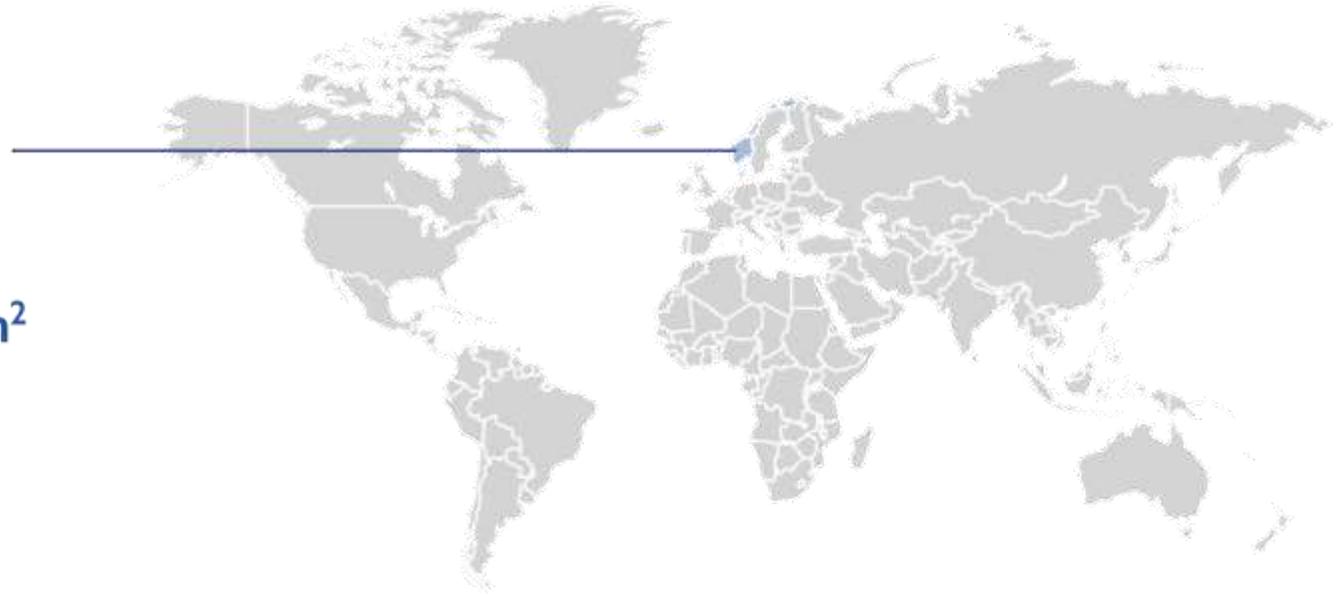
Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Netherlands-UK	Netherlands	UK	-	-	-	Operational	-	Export / Import	-	-	-
Netherlands-France	Netherlands	France	-	-	-	Operational	-	Export	-	-	-
Netherlands-Germany	Netherlands	Germany	-	-	-	Operational	-	Export / Import	-	-	-
Netherlands-Italy	Netherlands	Italy	-	-	-	Operational	-	Export	-	-	-
Netherlands-Switzerland	Netherlands	Switzerland	-	-	-	Operational	-	Export	-	-	-
Netherlands- Belgium	Netherlands	Belgium	-	-	-	Operational	-	Export	-	-	-
Netherlands- Denmark	Netherlands	Denmark	-	-	-	Operational	-	Import	-	-	-
Netherlands-Norway	Netherlands	Norway	-	-	-	Operational	-	Import	-	-	-
Netherlands-Russia	Netherlands	Russia	-	-	-	Operational	-	Import	-	-	-

5.4.4.2 Regasification Plants

Plant	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Gate	8.8	Operational	2011	Gasunie , Vopak	Gasunie , Vopak



Kingdom of
NORWAY



Population:
5 232 929



Capital:
Oslo



Continent:
Europe



Currency:
Norwegian
Krone



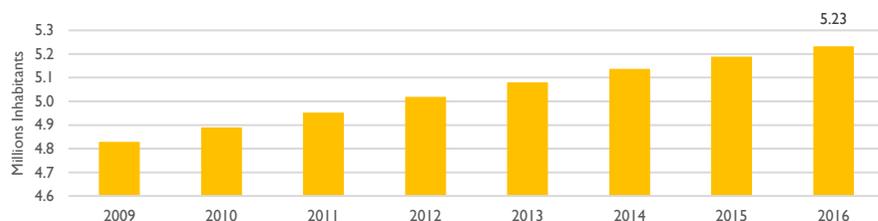
Time Zone:
Central European
GMT+2

5.5.1 Macroeconomics

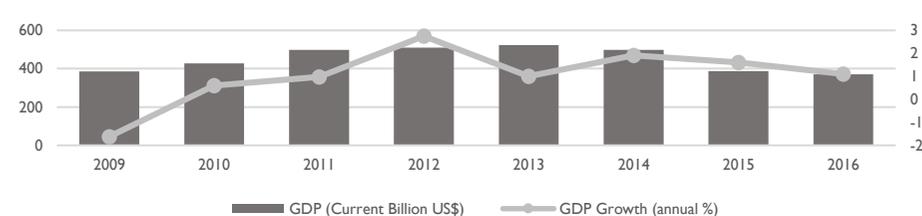
5.5.1.1 Norway Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	4,828,726	4,889,252	4,953,088	5,018,573	5,079,623	5,137,232	5,188,607	5,232,929
GDP (Current Billion US\$)	386.38	428.53	498.16	509.70	522.75	498.34	386.58	370.56
GDP Growth (annual %)	-1.62	0.60	0.97	2.75	1.00	1.92	1.61	1.08
GDP per capita (Current US\$)	80,017.78	87,646.75	100,574.99	101,563.70	102,910.44	97,005.50	74,505.25	70,812.48
Exports of Goods and Services (% of GDP)	39.22	39.82	41.34	40.62	39.20	38.86	37.39	33.79
Exports of Goods and Services (Current Billion US\$)	151.52	170.64	205.92	207.02	204.89	193.66	144.53	125.20
Imports of Goods and Services (Current Billion US\$)	107.86	122.51	141.95	141.13	149.03	149.29	123.55	120.61
Imports of Goods and Services (% of GDP)	27.92	28.59	28.50	27.69	28.51	29.96	31.96	32.55
Inflation consumer prices (annual %)	2.17	2.40	1.30	0.71	2.13	2.03	2.17	3.55
Energy use (kg of oil equivalent per capita)	6,484.12	6,934.59	5,649.70	5,906.14	6,415.99	5,595.65	5,817.60	-

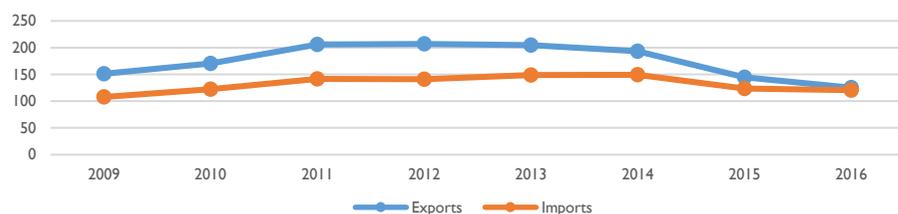
Graph 5.5.1.1. Norway: Population
2009 - 2016 | Millions Inhabitants



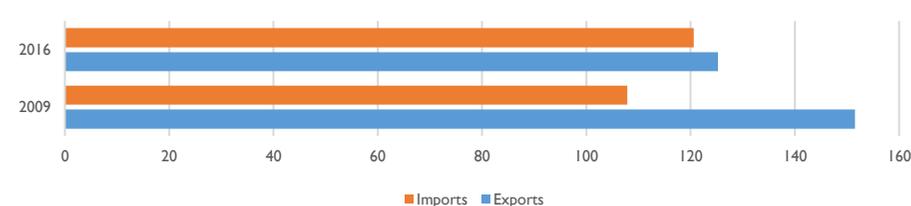
Graph 5.5.1.2. Norway: GDP
2009 - 2016 | Current Billion US\$



Graph 5.5.1.3. Norway: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



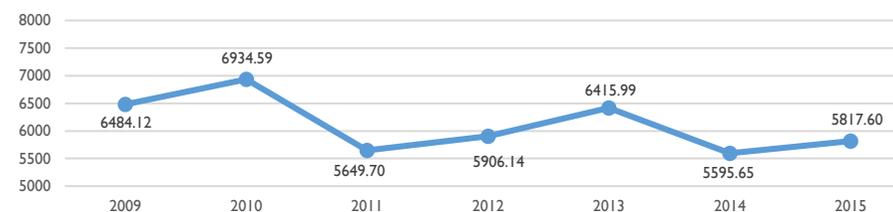
Graph 5.5.1.4. Norway: Exports and Imports (Goods and Services)
2009 vs 2016 | Current Billion US\$



Graph 5.5.1.5. Norway: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 5.5.1.6. Norway: Energy Use
2009 - 2015 | kg of Oil Equivalent per Capita



5.5.2 Reserves and Production

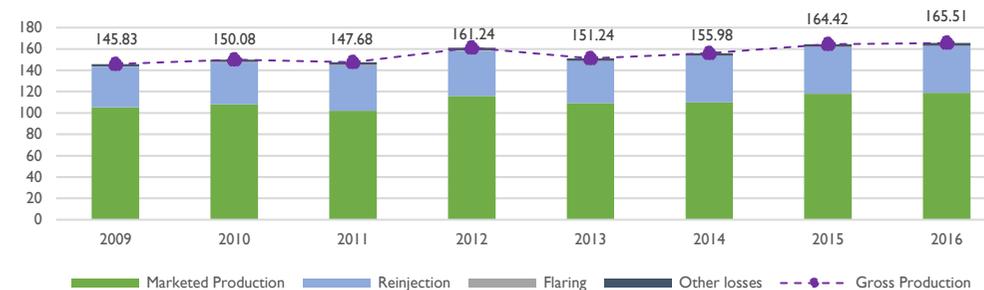
Table 5.5.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	2,603.68	2,548.64	2,521.20	2,522.64	2,470.88	2,365.84	2,303.92	2,275.92

Table 5.5.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	145.83	150.08	147.68	161.24	151.24	155.98	164.42	165.51
Marketed Production	105.26	108.05	102.21	115.79	109.30	109.86	118.15	118.98
Reinjection	37.95	39.15	42.45	42.20	39.10	43.50	43.70	43.77
Flaring	0.50	0.60	0.65	0.68	0.30	0.30	0.30	0.30
Other losses	2.12	2.29	2.37	2.57	2.54	2.32	2.27	2.46

Graph 5.5.2.1. Norway: Natural Gas Production
2009 - 2016 | Bcm



5.5.3 Domestic Consumption and Trade

Table 5.5.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	5.63	5.04	4.60	4.48	4.94	5.46	4.98	5.26

Graph 5.5.3.1. Norway: Natural Gas Domestic Consumption
2009 - 2016 | Bcm

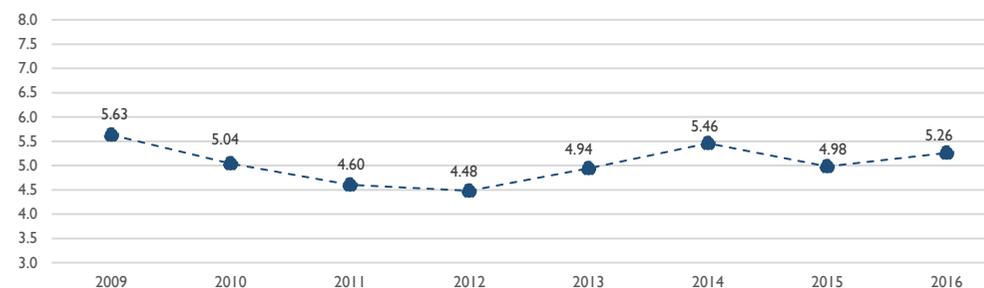


Table 5.5.3.2 Trade: Natural Gas Exports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016	
Pipeline (Bcm)	94.84	96.07	92.50	106.02	100.95	99.53	107.83	108.81	
LNG	Bcm*	3.18	4.65	4.25	4.80	3.89	5.06	5.95	6.12
	MMT	2.33	3.42	3.12	3.53	2.86	3.72	4.38	4.50
Totals (Bcm)	98.01	100.73	96.75	110.82	104.84	104.59	113.78	114.93	

* Gas equivalent

Graph 5.5.3.2. Norway: Natural Gas Trade and Marketed Production
2009 - 2016 | Bcm



5.5.4 Transport and Plants

5.5.4.1 Natural Gas Exports Pipelines

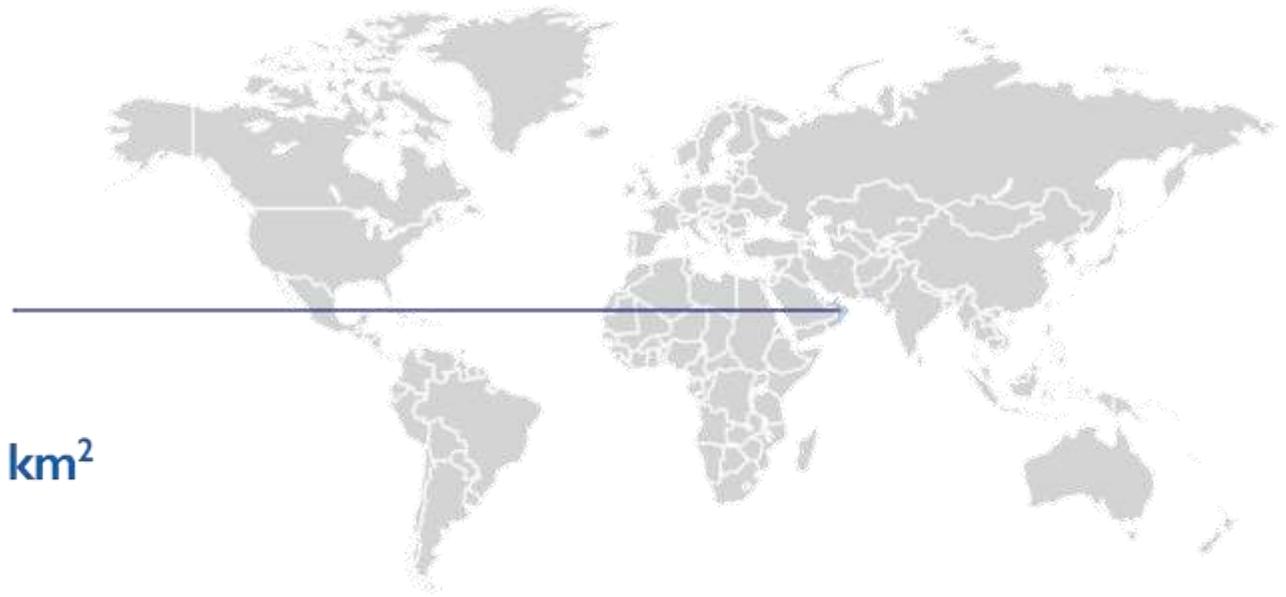
Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Netherlands-Norway	Norway	Netherlands	-	-	-	Operational	-	Export	-	-	-
Vesterled	Norway	UK	-	-	Gassco AS	Operational	14.2	Export	1978	360	32
Langeled	Norway	UK	-	-	Gassco AS	Operational	26.3	Export	2006	536	44
Norway-Denmark	Norway	Denmark	-	-	-	Operational	-	Export	-	-	-
Zeepipe I	Norway	Belgium	-	-	Gassco AS	Operational	15.3	Export	1993	808	40
Franpipe	Norway	France	-	-	Gassco AS	Operational	20.1	Export	1998	840	42
Europipe II	Norway	Germany	-	-	Gassco AS	Operational	26.0	Export	1999	660	42
Europipe	Norway	Germany	-	-	Gassco AS	Operational	16.8	Export	1995	620	40
Norpipe	Norway	Germany	-	-	Gassco AS	Operational	11.7	Export	1977	440	36
Norway- Austria	Norway	Austria	-	-	-	Operational	-	Export	-	-	-
Norway- Czech Republic	Norway	Czech Republic	-	-	-	Operational	-	Export	-	-	-
Norway- Spain	Norway	Spain	-	-	-	Operational	-	Export	-	-	-
Norway- Italy	Norway	Italy	-	-	-	Operational	-	Export	-	-	-
Norway- Switzerland	Norway	Switzerland	-	-	-	Operational	-	Export	-	-	-



Sultanate of
OMAN



309 500 km²



Population:
4 424 762



Capital:
Muscat



Continent:
Middle East



Currency:
Omani Rial



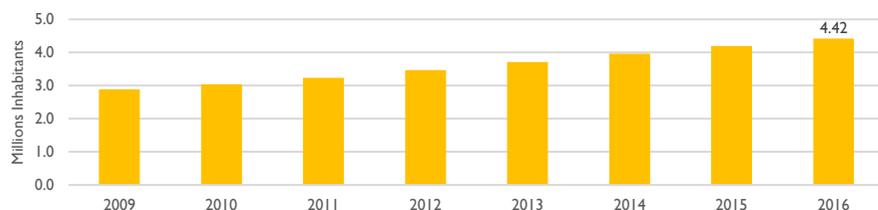
Time Zone:
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GMT+4

5.6.1 Macroeconomics

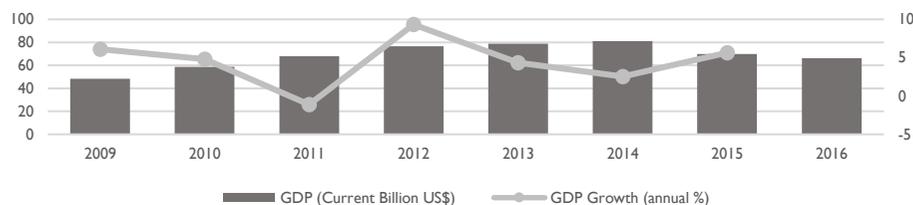
5.6.1.1 Oman Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	2,882,942	3,041,460	3,237,268	3,464,644	3,711,481	3,960,925	4,199,810	4,424,762
GDP (Current Billion US\$)	48.39	58.64	67.94	76.69	78.94	81.04	69.83	66.29
GDP Growth (annual %)	6.11	4.80	-1.11	9.33	4.37	2.54	5.65	-
GDP per capita (Current US\$)	16,784.35	19,280.75	20,986.00	22,134.91	21,268.76	20,458.45	16,627.36	14,982.36
Exports of Goods and Services (% of GDP)	50.64	65.65	72.75	71.49	75.23	69.54	56.09	-
Exports of Goods and Services (Current Billion US\$)	24.50	38.50	49.42	54.83	59.39	56.35	39.17	-
Imports of Goods and Services (Current Billion US\$)	16.76	24.17	29.24	34.40	41.83	37.86	36.67	-
Imports of Goods and Services (% of GDP)	34.65	41.21	43.04	44.85	52.99	46.72	52.51	-
Inflation consumer prices (annual %)	3.94	3.20	4.07	2.91	1.25	1.01	0.07	-
Energy use (kg of oil equivalent per capita)	5,486.31	6,154.42	6,800.14	6,832.83	6,583.46	6,141.77	-	-

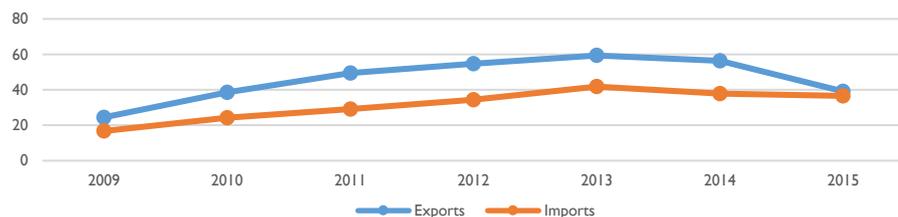
Graph 5.6.1.1. Oman: Population
2009 - 2016 | Millions Inhabitants



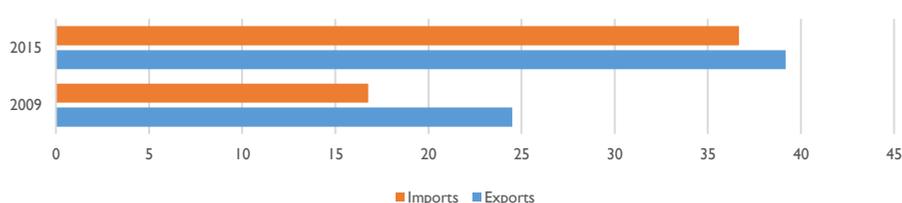
Graph 5.6.1.2. Oman: GDP
2009 - 2016 | Current Billion US\$



Graph 5.6.1.3. Oman: Exports and Imports (Goods and Services)
2009 - 2015 | Current Billion US\$



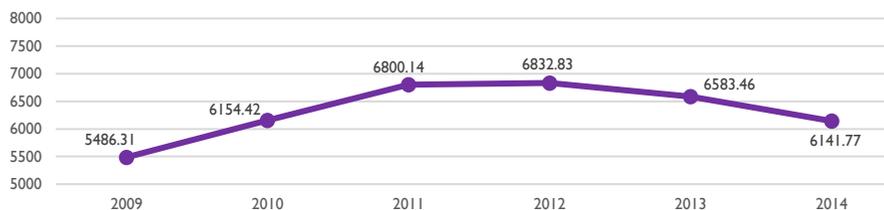
Graph 5.6.1.4. Oman: Exports and Imports (Goods and Services)
2009 vs 2015 | Current Billion US\$



Graph 5.6.1.5. Oman: Inflation (Consumer Prices)
2009 - 2015 | Annual %



Graph 5.6.1.6. Oman: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



5.6.2 Reserves and Production

Table 5.6.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	723.83	684.16	681.32	675.64	703.00	702.50	702.50	702.50

Table 5.6.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	32.18	32.34	34.73	45.95	37.15	35.81	38.21	39.16
Marketed Production	25.88	26.14	24.98	37.32	28.16	27.96	30.32	30.90
Reinjection	2.63	2.69	2.96	2.53	2.86	2.85	3.71	3.57
Flaring	1.44	1.29	0.92	1.30	1.53	1.57	1.43	1.50
Other losses	2.23	2.22	5.87	4.80	4.60	3.43	2.75	3.19

Graph 5.6.2.1. Oman: Natural Gas Production



5.6.3 Domestic Consumption and Trade

Table 5.6.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	14.72	17.58	13.72	16.49	16.67	20.41	22.09	22.76

Graph 5.6.3.1. Oman: Natural Gas Domestic Consumption

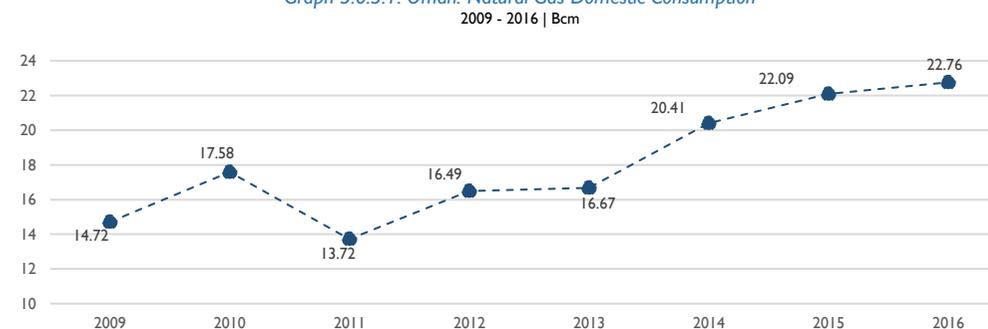


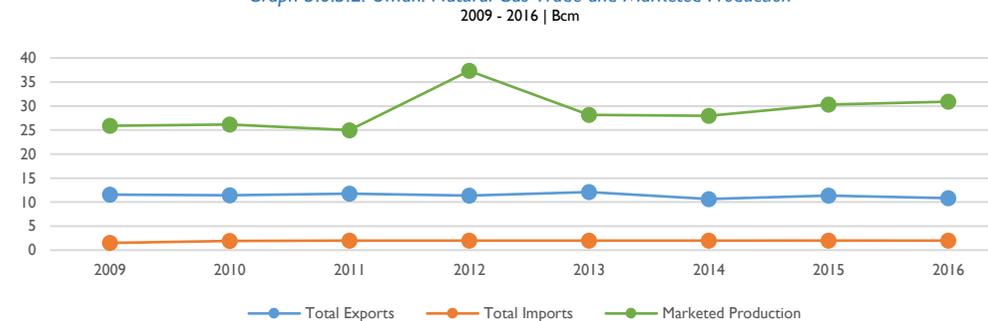
Table 5.6.3.2 Trade: Natural Gas Exports (Bcm)

LNG		2009	2010	2011	2012	2013	2014	2015	2016
	Bcm*	11.55	11.43	11.78	11.38	12.09	10.64	11.37	10.81
MMT	8.49	8.40	8.66	8.37	8.89	7.82	8.36	7.95	

Table 5.6.3.2 Trade: Natural Gas Imports (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Pipeline (Bcm)	1.50	1.90	1.95	1.98	1.96	1.97	1.99	1.98

Graph 5.6.3.2. Oman: Natural Gas Trade and Marketed Production



5.6.4 Transport and Plants

5.6.4.1 Natural Gas Exports Pipelines

Pipeline	Connection			Owner(s)	Operator(s)	Status	Capacity (Bcm/year)	Type	Start Year	Length (km)	Diameter (Inches)
	From	To	Via								
Dolphin	Qatar	Oman	-	-	Dolphin Energy	Operational	21.0	Export	2006	364	36
Iran-Oman	Iran	Oman	-	-	-	Planned	10.0	Import	2020	-	48

5.6.4.2 Liquefaction Plants

Plant	Liquefaction (No. of Trains)	Total Capacity (MTPA)	Status	Start Year	Owner(s)	Operator(s)
Qalhat	3	10.4	Operational	2000	-	Oman LNG



Republic of
PERU



1 285 220 km²



Population:
31 773 839



Capital:
Lima



Continent:
South
America



Currency:
Peruvian Sol



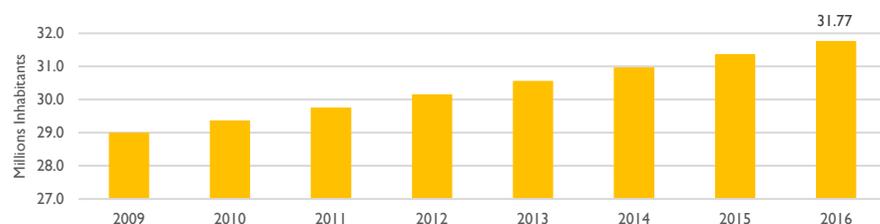
Time Zone:
Peru
GMT-5

5.7.1 Macroeconomics

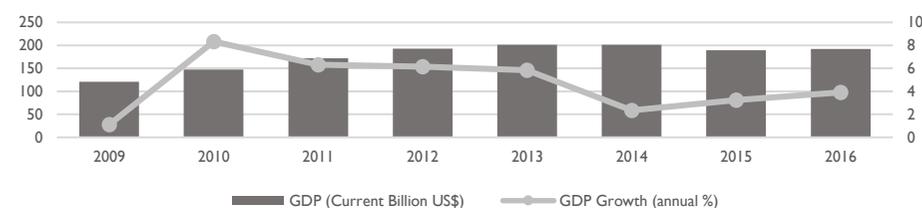
5.7.1.1 Peru Macroeconomic Indicators

	2009	2010	2011	2012	2013	2014	2015	2016
Population (Inhabitants)	29,001,507	29,373,646	29,759,989	30,158,966	30,565,716	30,973,354	31,376,671	31,773,839
GDP (Current Billion US\$)	120.82	147.53	171.76	192.65	201.22	201.05	189.21	192.09
GDP Growth (annual %)	1.10	8.33	6.33	6.14	5.85	2.35	3.25	3.88
GDP per capita (Current US\$)	4,166.09	5,022.49	5,771.57	6,387.79	6,583.12	6,491.05	6,030.34	6,045.65
Exports of Goods and Services (% of GDP)	26.44	27.83	30.50	27.45	24.80	22.58	21.30	22.45
Exports of Goods and Services (Current Billion US\$)	31.95	41.05	52.39	52.88	49.91	45.39	40.30	43.12
Imports of Goods and Services (Current Billion US\$)	26.18	35.18	43.77	48.49	50.25	48.68	44.86	42.95
Imports of Goods and Services (% of GDP)	21.67	23.85	25.49	25.17	24.97	24.21	23.71	22.36
Inflation consumer prices (annual %)	2.94	1.53	3.37	3.65	2.82	3.23	3.56	3.60
Energy use (kg of oil equivalent per capita)	543.48	635.49	638.44	677.97	666.44	767.69	-	-

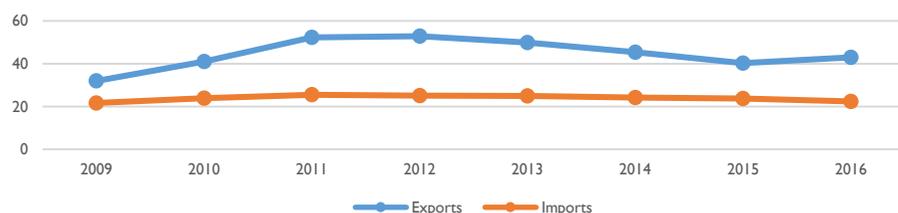
Graph 5.7.1.1. Peru: Population
2009 - 2016 | Millions Inhabitants



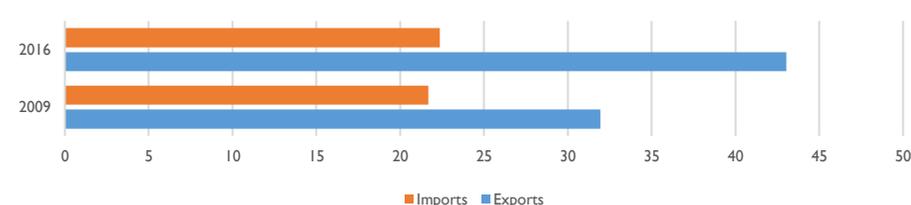
Graph 5.7.1.2. Peru: GDP
2009 - 2016 | Current Billion US\$



Graph 5.7.1.3. Peru: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



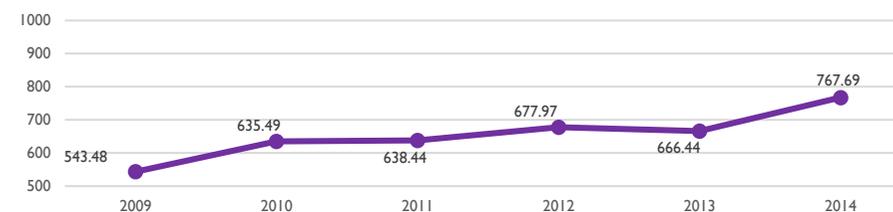
Graph 5.7.1.4. Peru: Exports and Imports (Goods and Services)
2009 - 2016 | Current Billion US\$



Graph 5.7.1.5. Peru: Inflation (Consumer Prices)
2009 - 2016 | Annual %



Graph 5.7.1.6. Peru: Energy Use
2009 - 2014 | kg of Oil Equivalent per Capita



5.7.2 Reserves and Production

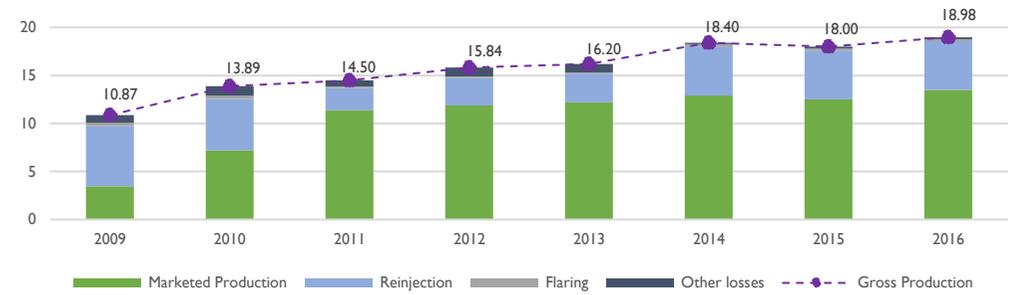
Table 5.7.2.1 Proven Gas Reserves (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Proven Gas Reserves	372.50	376.50	379.50	417.50	413.00	407.00	399.50	400.00

Table 5.7.2.2 Natural Gas Production (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Gross Production	10.87	13.89	14.50	15.84	16.20	18.40	18.00	18.98
Marketed Production	3.49	7.22	11.38	11.88	12.20	12.91	12.50	13.48
Reinjection	6.23	5.32	2.32	2.87	3.00	5.14	5.10	5.10
Flaring	0.34	0.33	0.16	0.15	0.10	0.21	0.20	0.20
Other losses	0.81	1.02	0.64	0.94	0.90	0.14	0.20	0.21

Graph 5.7.2.1. Peru: Natural Gas Production 2009 - 2016 | Bcm



5.7.3 Domestic Consumption and Trade

Table 5.6.3.1 Domestic Gas Consumption (Bcm)

	2009	2010	2011	2012	2013	2014	2015	2016
Totals	3.49	5.20	5.61	6.41	6.51	7.24	7.44	7.85

Graph 5.7.3.1. Peru: Natural Gas Domestic Consumption 2009 - 2016 | Bcm

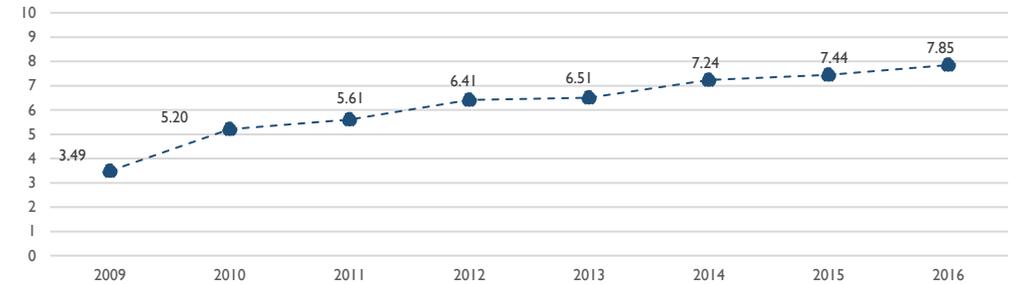


Table 5.7.3.2 Trade: Natural Gas Exports (Bcm)

LNG		2009	2010	2011	2012	2013	2014	2015	2016
	Bcm*	0.00	1.78	5.37	5.32	5.39	5.47	4.92	5.16
MMT	0.00	1.31	3.95	3.91	3.96	4.02	3.61	3.80	

Graph 5.7.3.2. Peru: Natural Gas Trade and Marketed Production 2009 - 2016 | Bcm



5.7.4 Transport and Plants

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



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