



The Hashemite Kingdom of Jordan

Ministry of Energy and Mineral Resources

Energy 2016 - Facts & Figures

General Indicators

	2011	2012	2013	2014	2015
Population (000)	6250	6388	6530	6650	6514
GDP (Million JD) at current price	20477	21965	23852	25437.1	26637
GDP Per Capita (JD)	3276	3432	3652.7	3825	4089
Energy Intensity (Kgoe/1000\$ in fixed price)	209	208	208	207	207
Per Capita Primary Energy Consumption (kgoe)	1193	1247	1249.2	1272	1373
Per Capita Consumption of Electricity (kwh)	2166	2230	2234.8	2318	2483
Percentage of Population Supplied with Electricity(%)	99.9	99.9	99.9	99.9	99.9

Abbreviations

GDP	Gross Domestic Product
JD	Jordan Dinar (1000 Fils)
JD 1	\$ 1.41 in 2015
kgoe	Kilogram Oil Equivalent
TOE	Ton Oil Equivalent
MW	Megawatt (1000 KW)
GWH	Gegawatt-hour (106 KWh)
CF	Cubic Feet
Energy Intensity	Energy required to Produce one unit From GDP Constant prices

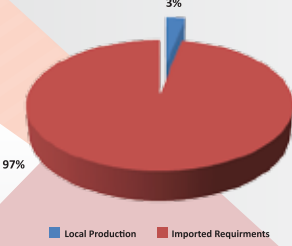
Jordan Energy Balance 2015 (000TOE)

Sector	Crude Oil	Fuel Oil	Diesel	Gasoline	LPG	Kerosene	Jet Fuel	Other	Total Oil	Coal	Bet Coke	L Coke	N. gas	Electricity	Solar Energy	Total Energy
Indigenous Production	0.5								0.5				101.1	43.4	159.7	304.6
Imports	3467.4	819.8	1142.2	697.5	372.7		35.3		6534.8	161.3	151.8	13.4	1843.0	152.0		8856.5
Exports														12.5		12.5
Bunkers		1.1	4.4				96.3		101.8							101.8
Stock Changes	87.8	-4.3	15.0	14.3	-11.4	-0.1	-1.0	2.0	102.4							102.4
Primary Energy Supply	3380.0	823.0	1122.8	683.2	384.1	0.1	-60.0	-2.0	6331.2	161.3	151.8	13.4	1944.1	182.9	159.7	8944.5
Oil Sector	-3380.0	856.0	1078.2	679.8	89.4	93.6	266.2	176.6	-140.2							-140.2
Electricity		1334.2	575.1						-1909.3				-1944.1	1578.7		2274.8
Transp. & Dist. Losses														231.8		231.8
Cons. Energy Supply		184.6	0.02					46.9	231.5					49.11		280.6
Final Energy Consump.	0.0	160.3	1625.9	1363.0	473.6	93.7	206.2	127.6	4050.2	161.3	151.8	13.4	0.0	1390.9	159.7	5927.3
Industry		159.0	151.0		9.7				319.7	161.3	151.8	13.4		345.1		991.4
Transport		1.3	1229.0	1374.0			206.2		2810.5							2810.5
Household			74.0		381.0	93.7			548.7					596.7	127.0	1272.4
Services			52.0		70.6				122.6					211.6	32.7	366.9
Others			137.1		12.2				149.3					237.6		386.9
Non-Energy use								127.6	127.6							127.6
Statistical Differences	0.0	0.0	-17.2	-11.0	0.0	0.0	0.0	0.0	-28.2	0.0	0.0	0.0	0.0	0.0	0.0	-28.2

Local Production of Oil & Natural Gas

	2011	2012	2013	2014	2015
Crude Oil (000 Toe)	0.9	1.1	1	1	0.5
N.Gas (Billion CF)	6.4	5.8	5.3	4.6	4.3
Total (000 Toe)	135	122	112.3	98	102

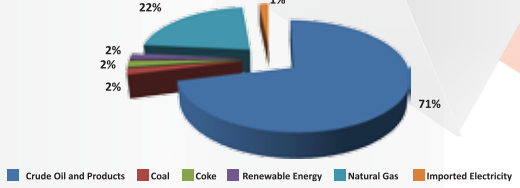
Local Production share of total Requirments 2015



Primary Energy Consumption (000TOE)

	2011	2012	2013	2014	2015
Crude Oil and Products	6141	6992	6689	7479	6331
Coal	0	226	204	332	161
Coke	0	0	116	88	165
Renewable Energy	130	140	145	152	160
Natural Gas	872.7	659	907	301	1944
Imported Electricity	313	188	96	109	152
Total	7457	8205	8157	8461	8944

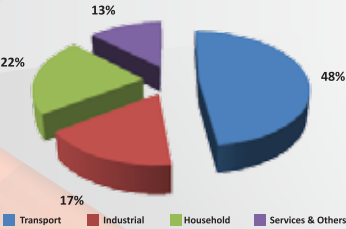
Primary Energy Consumption 2015



Final Energy Consumption (000TOE)

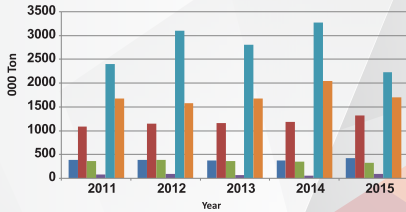
	2011	2012	2013	2014	2015
Transport	2012	2520	2734	2558	2811
Industrial	961	921	924	1079	991
Household	1136	1198	1109	1152	1272
Services & Others	779	744	617.1	718	754
Total (000 Toe)	4888	5383	5384.1	5507	5828

Final Energy Consumption by Sector 2015



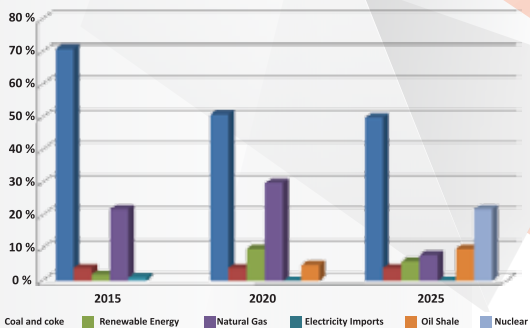
Petroleum Products Consumption (000 Ton)

	2011	2012	2013	2014	2015
LPG	378	377	368	371	416
Gasoline	1083	1147	1161	1187	1319
Jet Fuel	354	379	357.5	339	321
Kerosene	75	81	63	49	91
Diesel	2407	3103	2810.3	3274	2235
Fuel Oil	1670	1578	1679	2041	1705



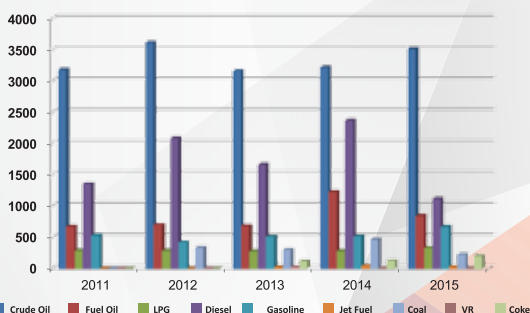
Jordan's Primary Energy Sources 2015-2025

	2015	2020	2025
Crude Oil and Products	71%	51%	50%
Coal and coke	4%	4%	4%
Renewable Energy	2%	10%	6%
Natural Gas	22%	30%	8%
Electricity Imports	1%	0%	0%
Oil Shale		5%	10%
Nuclear			22%



Import of Crude Oil ,Oil products, Coal,Coke (000 Tons)

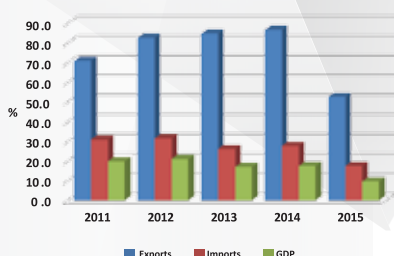
	2011	2012	2013	2014	2015
Crude Oil	3189	3623	3170.2	3221	3513
Fuel Oil	674	703	685	1232	848
LPG	288	288	280	282	335
Diesel	1361	2089	1670	2373	1121
Gasoline	540	426	515	520	670
Jet Fuel	1	1	27	50.541	34
Coal	0	340	306	474	231
VR	0	0	23	0	0
Coke	0	0	123	130	203
Total	6137	7130	6799	8283	6955



Cost of Consumed Energy

Year	Cost of Consumed Energy (Million JD)	Cost of Consumed Energy Related to		
		Exports%	Imports%	GDP%
2011	4019	71.0	31.0	20.0
2012	4631	82.7	31.5	21.1
2013	4076	84.8	26.3	17.1
2014	4480	86.8	27.7	17.6
2015	2532	52.8	17.5	9.5

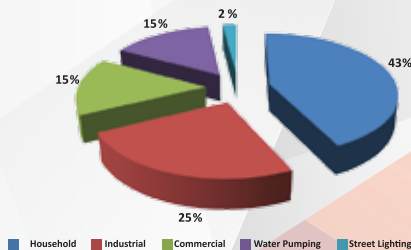
Cost of Consumed Energy as % of Export, Import, and GDP



Electricity Consumption (GWh)

	2011	2012	2013	2014	2015
Household	5548	6126	6265	6580	6938
Industrial	3445	3461	3541	3877	4012
Commercial	2269	2427	2415	2358	2460
Water Pumping	1939	1955	2076	2287	2426
Street Lighting	334	305	291	316	337
Total	13535	14274	14588	15418	16173

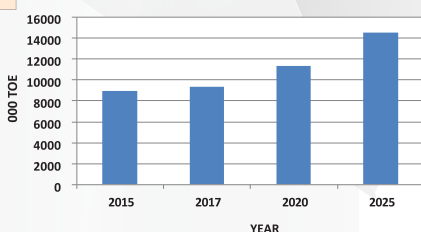
Electrical Energy Consumption by Sector 2015



Energy and Electricity Demand Forecast in Jordan

Primary Energy			Max. Demand		Electrical Energy	
Year	TOE	Growth%	MW	Growth%	Gwh	Growth%
2015	8944	5.7	3200	6.2	18600	4
2017	9320	5.0	3596	6.1	20800	5.9
2020	11339	5.1	4300	6.3	25060	6.6
2025	14499	5.5	5807	6.4	34489	7

Primary Energy Demand Forecast (2015-2025)



FACTS

- Pursue construction of strategic storage capacities for crude oil and oil products and LPG in Aqaba and in the middle of the Kingdom to be operated during 2016.
- Approval of Abu Dhabi Fund for Development to add three LPG spherical tanks to the strategic storage capacity project in the middle of the Kingdom.
- Establish and register Jordan Logistic Oil Terminal Company on 17/8/2015.
- The contribution capacity of natural gas imported via Sheikh Sabah Al Ahmad Terminal in Aqaba has amounted to 85% of the total electricity generated in the Kingdom.
- The Cabinet has approved the mechanism of supplying the industrial sector with natural gas in the Kingdom.
- The capacity of renewable energy projects (solar & wind) being constructed, under constructed or under developed have amounted to 1000 MW.
- The rehabilitation of Hussein Thermal Power Station project agreements were signed in 21/12/2015 with a capacity of 485 MW and a total cost of million USD 470, expected to be commercially operated in the second half of 2018.
- Extend the financial closure date through direct combustion of oil shale in Attarat to 30/4/2016. A total capacity of 470 MW will be produced in 42 months after announcing project financial closure.
- JREEEF is currently working on range of programs and projects to empower housing, SMEs, government institutions and houses of worships to get the necessary funding for renewable energy and energy efficiency projects from international and domestic banks and donors. JREEEF exerts deliberate and national efforts to implement the Royal Initiative of His Majesty the King Abdullah II all over Jordan to adopt central heating system for public schools using renewable energy technology.

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