



The Hashemite Kingdom of Jordan
Ministry of Energy and Mineral Resources
Energy 2018 - Facts & Figures

General Indicators

	2013	2014	2015	2016	2017	GDP	Gross Domestic Product
Population (000)	6530	6650	6514	9798	10053	JD	Jordan Dinar (1000 Fils)
GDP (Million JD) at current price	23852	25437	26637	27445	28449	1 JD	US\$ 1.41 in 2017
GDP Per Capita (JD)	3653	3825	4089	2801	2830	kgoe	Kilogram Oil Equivalent
Energy Intensity (Kgoe/1000\$ in fixed price)	273	275	284	296	299	TOE	Ton Oil Equivalent
Primary Energy Consumption Per Capita (kgoe)	1249	1272	1373	981	996	MW	Megawatt (1000 KW)
Electricity Consumption Per Capita (kwh)	2235	2318	2483	1701	1748	GWh	Gigawatt-hour (10 ⁶ KWh)
Percentage of Population Supplied with Electricity(%)	99.9	99.9	99.9	99.9	100	CF	Cubic Feet

Energy Intensity Energy required to Produce one unit from GDP Constant prices

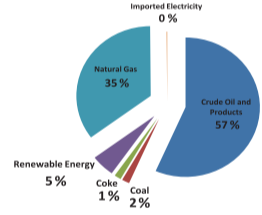
Jordan Energy Balance 2017 (000TOE)

Sector	Crude Oil	Fuel Oil	Diesel	Gasoline	LPG	Kerosene	Jet Fuel	Pet Coke	Other	Total Oil	Coal	L. Coke	N.G	Electricity	Solar Energy	Bio Mass	Total Energy
Indigenous Production	0.3									0.3							
Imports	2850.4	0.0	1065.1	987.3	415.8	69.8	132.9	148.0		5669.3	136.9	28.0	4342.5	12.9		17.6	10207.2
Exports													915.4	14.4			929.8
Bunkers		72.3	3.8				57.2			133.3							133.3
Stock Changes	-16.5	-29.2	-39.3	-50.9	-6.9	-32.6	-20.2		-0.7	-196.3							-196.3
Primary Energy Supply	2867.2	43.1	1100.5	1038.2	422.8	102.4	95.9	148.0	0.7	5818.8	136.9	28.0	3509.8	285.5	168.4	61.3	10008.7
Oil Sector	-2867.2	540.9	874.0	596.3	88.6	56.4	297.6			-198.4							-198.4
Electricity		315.8	9.4							-325.2			-3509.8	1724.6			-2110.4
Transp. & Dist. Losses														224.8			224.8
Cons. Energy Supply		174.5	0.00						39.0	213.4				42.97			256.4
Final Energy Consump	0.0	93.8	1965.1	1834.4	511.4	158.8	393.5	148.0	176.8	5081.8	136.9	28.0	0.0	1511.3	168.4	60.7	6987.1
Industry		126.8	161.5		11.5			148.0		447.8	136.9	28.0		325.5			938.2
Transport		2.3	1392.0	1643.5			393.5			3431.3							3431.3
Household			120.3		408.4	158.8				687.4				894.5	131.0	35.7	1548.6
Services			91.3		77.7					169.0				228.3	37.4	25.0	459.7
Others			213.9		13.8					227.6				263.0			490.6
Non-Energy use									176.8	176.8							176.8
Statistical Differences	0.0	-35.3	-13.7	-9.1	0.0	0.0	0.0	0.0	0.0	-58.1	0.0	0.0	0.0	0.0	0.0	0.0	-58.1

Primary Energy Consumption

	2013	2014	2015	2016	2017
Crude Oil and Products	6689	7479	6331	5327	5671
Coal	204	332	161	220	165
Coke	116	88	165	182	148
Renewable Energy	145	152	160	412	515
Natural Gas	907	301	1944	3389	3510
Imported Electricity	96	109	152	84	13
Total	8157	8461	8944	9614	10009

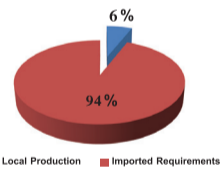
Primary Energy Consumption 2017



Local Production of Oil & Natural Gas

	2013	2014	2015	2016	2017
Crude Oil (000 Toe)	1	1	0.5	0.4	0.3
N.Gas (Billion CF)	5.3	4.6	4.3	4.1	3.6
Total (000 Toe)	112.3	98	102	87	83

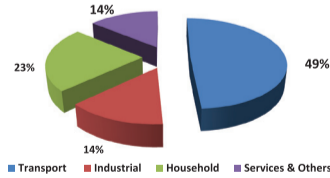
Local Production Share of Total Energy Requirements 2017



Final Energy Consumption

	2013	2014	2015	2016	2017
Transport	2734	2558	2811	3184	3431
Industrial	924	1079	991	1064	938
Household	1109	1152	1272	1342	1549
Services & Others	617	718	754	826	950
Total (000 Toe)	5384	5507	5828	6416	6868

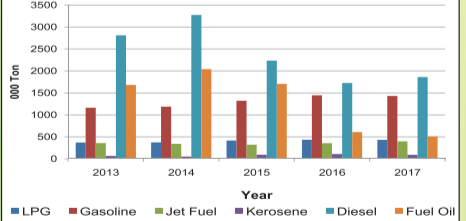
Final Energy Consumption by Sector 2017



Petroleum Products Consumption (000 Ton)

	2013	2014	2015	2016	2017
LPG	368	371	416	434	431
Gasoline	1161	1187	1319	1446	1431
Jet Fuel	357	339	321	355	396
Kerosene	63	49	91	108	88
Diesel	2810	3274	2235	1726	1859
Fuel Oil	1679	2041	1705	606	505

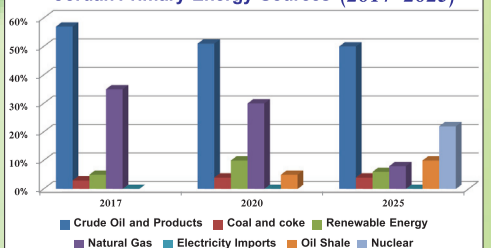
Petroleum Products Consumption



Jordan Primary Energy Sources 2017-2025

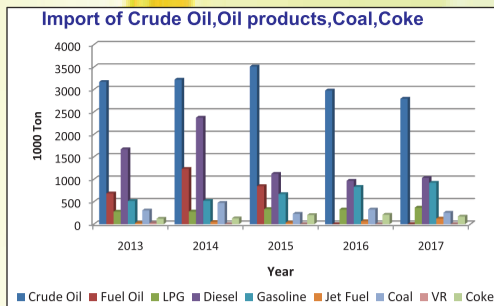
	2017	2020	2025
Crude Oil and Products	57%	51%	50%
Coal and coke	3%	4%	4%
Renewable Energy	5%	10%	6%
Natural Gas	35%	30%	8%
Electricity Imports	0%	0%	0%
Oil Shale		5%	10%
Nuclear			22%

Jordan Primary Energy Sources (2017-2025)



Imports of Crude Oil, Oil products, Coal, & Coke (000 Tons)

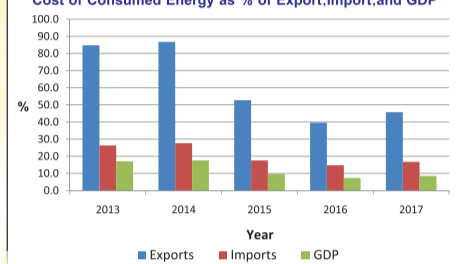
	2013	2014	2015	2016	2017
Crude Oil	3170	3221	3513	2978	2795
Fuel Oil	685	1232	848	0	0
LPG	280	282	335	327	368
Diesel	1670	2373	1121	967	1029
Gasoline	515	520	670	832	923
Jet Fuel	27	51	34	64	125
Coal	306	474	231	327	255
VR	23	0	0	0	0
Coke	123	130	203	210	170
Total	6799	8283	6955	5705	5665



Cost of Consumed Energy

Year	Cost of Consumed Energy (Million JD)	Cost of Consumed Energy Related to		
		Exports%	Imports%	GDP%
2013	4076	84.8	26.3	17.1
2014	4480	86.8	27.7	17.6
2015	2532	52.8	17.5	9.7
2016	1924	39.7	14.1	7.0
2017	2429	45.8	16.8	8.5

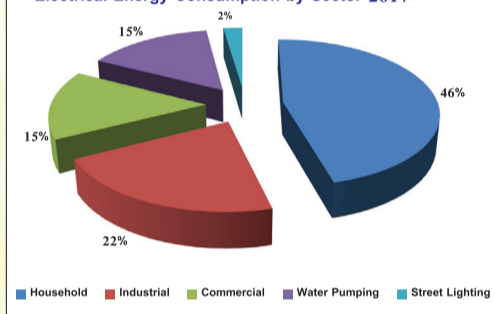
Cost of Consumed Energy as % of Export, Import, and GDP



Electricity Consumption (GWh)

	2013	2014	2015	2016	2017
Household	6265	6580	6938	7448	8076
Industrial	3541	3877	4012	3939	3785
Commercial	2415	2358	2460	2447	2655
Water Pumping	2076	2287	2426	2485	2655
Street Lighting	291	316	337	350	403
Total	14588	15418	16173	16669	17574

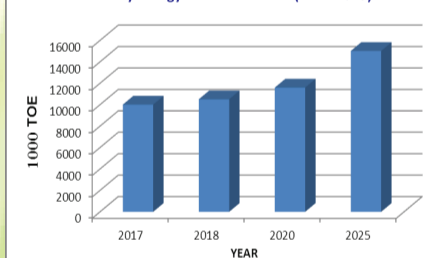
Electrical Energy Consumption by Sector 2017



Energy and Electricity Demand Forecast in Jordan

Primary Energy TOE			Max. Demand		Electrical Energy	
			MW	Growth%	GWh	Growth%
2017	10009	4.1	3320	2.1	20054	5.8
2018	10509	5.0	3428	3.2	20234	4
2020	11597	5.1	3676	3.5	21995	4.3
2025	15013	5.5	4433	3.8	27285	4.4

Primary Energy Demand Forecast (2017-2025)



Facts

- The Cabinet approves Jordan's National Energy Efficiency Action Plan NEEAP 2018-2020.
- Jordan implements the first project in the region for the direct combustion of oil shale to generate 470 MW of electricity in Al Attarat area to be operated in 2020.
- The capacity of RE developed and/or under developed projects (solar and wind) amounted to 1800 MW.
- The capacity of RE net metering and wheeling systems amounted to 200 MW.
- Announce the first project in the region for an electric energy storage system utilizing batteries to produce 30 MW for two hours duration through direct proposals.
- Announce the rehabilitation of an El-Akaider Landfill to generate 20-30 MW of electricity in cooperation with the Ministry of Municipalities and the Ministry of Environment.
- The contribution capacity of an imported natural gas amounted to 87.5% of the total electricity generation.
- Sign two Sale and Purchase Agreements with two major industries.
- The Ministry starts the monthly pricing for the natural gas sold to the industry sector.

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