



Hashemite Kingdom of Jordan

National Methods For Energy Data Collection

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Training on Energy Balances
UNESCAWA – Beirut, Lebanon
14th , Dec 2018



The Hashemite Kingdom of Jordan

Jordan's the official name is
The Hashemite kingdom of
Jordan

Where is Jordan?

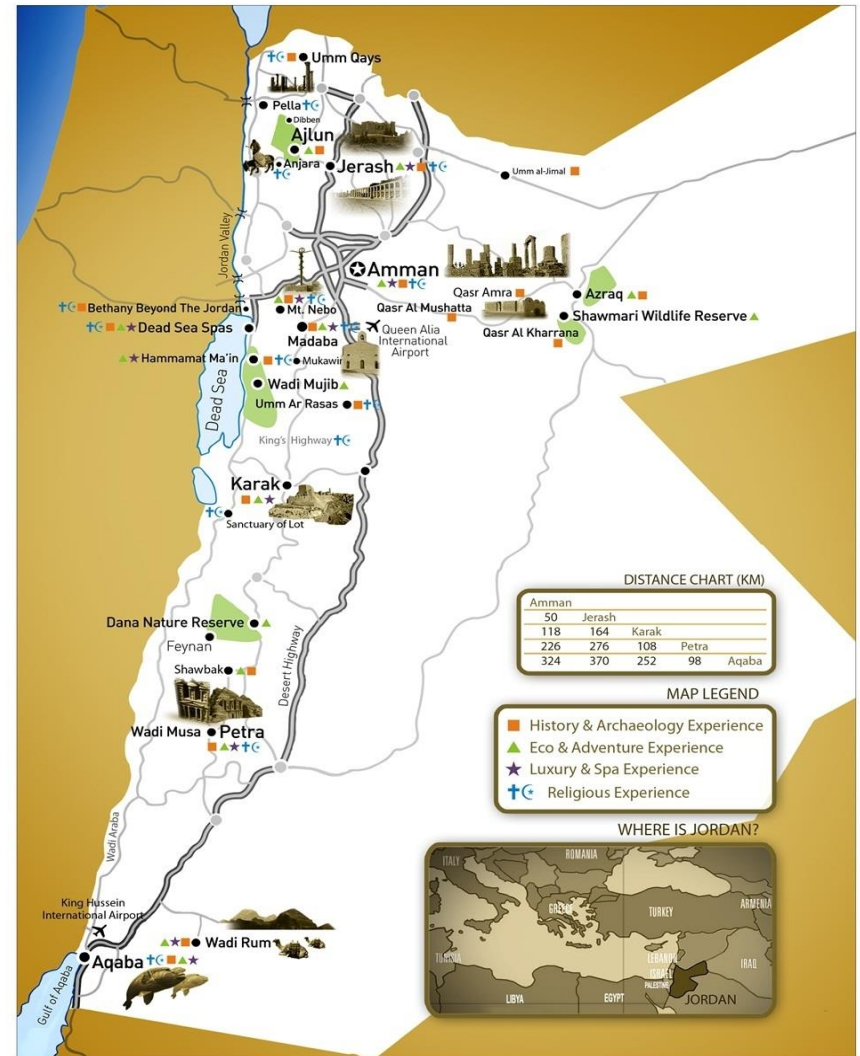
Jordan is located in the Middle East and borders Syria, Saudi Arabia, the Red Sea, Palestine, Israel, and Iraq. Covering some 89,342 sq.km, it is located at 31° 00 N, 36° 00 E

Climate and Geography

Jordan has a combination of Mediterranean and arid desert climates, with Mediterranean prevailing in the North and West of the country, while the majority of the country is desert.

Lowest Point: Dead Sea, -408 meters (-1338.6 feet)

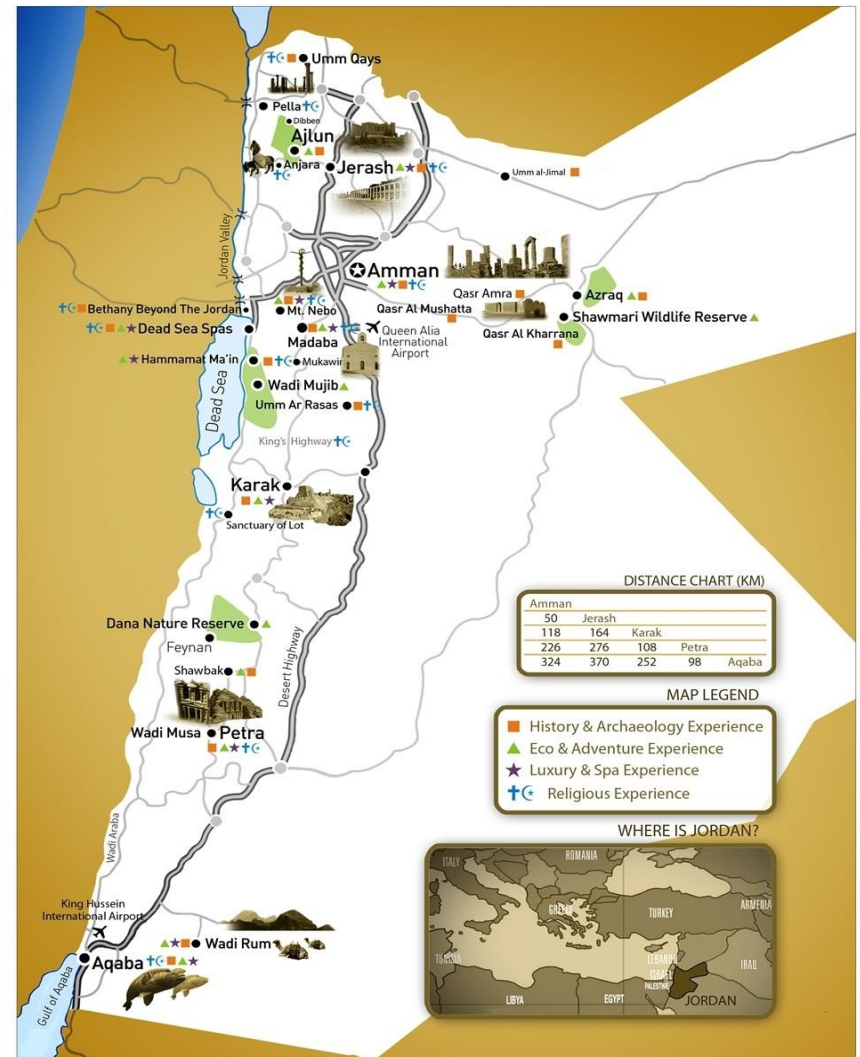
Highest Point: Jebel Rum, 1734 meters (5689 feet)





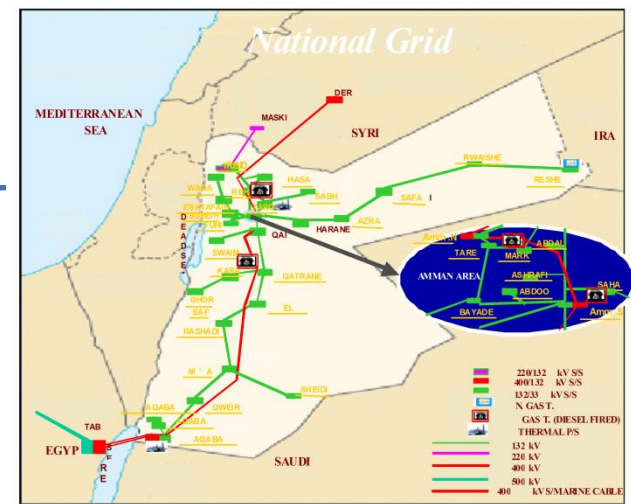
The Hashemite Kingdom of Jordan

- Positioned at the convergence of the three continents of Europe, Asia and Africa.
- Total Population: 10,053 million
- GDP at current price: 28,449 million JD (40,091 million US\$)
- GDP per Capita: 2830 JD (3988 US\$)



Features

- Jordan is considered as a hub and transit country and can play a major role in the region linking :
 - Gas Pipelines
 - Oil Pipelines
 - Electricity networks
- The country has a huge potential of :
 - Energy resources (oil shale, uranium).
(estimated quantities for oil shale and uranium are about 40 billion tones and 65000 tones respectively)
 - Renewable energy utilization (wind, solar).
(solar radiation intensity 5-7 kWh/m² per day, wind speed 7-11 m/s)
- Jordan has potential of oil and gas exploration but has not been explored yet.
- Comprehensive legal, legislative and regulatory framework for the energy sector.



Key Challenges in the Energy Sector in Jordan

Jordan is facing a real challenge in securing its energy supply due to:

- Almost no indigenous energy resources (6%)
- High dependency on imported energy
(94% TPES imports in 2017) , 140,000 barrels per day.
- volatile oil prices
(The energy cost amounted in 2017 to 2.429 billion dinars which represented 8.5% of GDP at current prices)
- Continued increase in demand
 - high growth of primary energy demand (5.5% per annual)
 - high growth of electricity generated capacity (5.3% per annual)
- High energy intensity in Jordan (299 oil kg equivalent/1000 dollar)





Ministry of Energy & Mineral Resources (MEMR)



- Established 1984 for:
 - Administering and organizing the energy sector
 - Comprehensive planning process of the sector
 - Setting the general plans and ensuring their implementation

Vision

- Achieve a secure sustainable supply of energy and optimal utilization of natural resources.

Mission

- Setting and developing the appropriate policies and legislations to achieve a secure sustainable supply of energy and the optimum utilization of natural resources which complies with international best practices.



MEMR Energy Facts & Figures

- Published annually
- Prepared by Statistics & Info Unit with other technical units in MEMR.
- Contains Economic figures along with Energy Balance



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

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			82.7	287.0	168.4	43.7	582.1
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		215.0	-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	1634.4	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				694.5	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

All available on
MEMR website:
Ministry's
Brochures:
[http://memr.gov.jo/
 Pages/viewpage.aspx
 x?pageID=175](http://memr.gov.jo/Pages/viewpage.aspx?pageID=175)



MEMR Annual Report



THE HASHEMITE KINGDOM OF JORDAN

**The Ministry of Energy and
Mineral Resources**



THE HASHEMITE KINGDOM OF



Hashemite Kingdom of Jordan

**Ministry of Energy
and Mineral Resources**

Ministry of Energy and Mineral Resources

Annual Report
2015

Annual Report
2014



The Hashemite Kingdom of Jordan

**The Ministry of Energy
and Mineral Resources**

Annual Report
2013

[http://memr.gov.jo/
Pages/viewpage.aspx?
pageID=190](http://memr.gov.jo/Pages/viewpage.aspx?pageID=190)



www.memr.gov.jo

Energy Information System

<http://eis.memr.gov.jo>



- **EIS includes 6 categories of statistical data, as follows:**
- 1. **Macroeconomic** - Population, GDP, value added, CO2 emissions.
- 2. **Energy** - Energy balance, primary energy supply, final energy consumption, energy cost.
- 3. **Electricity** - Generation, capacity, consumption, supply, efficiency, purchases, sales, tariff, imports, exports, transmission.
- 4. **Oil** - Production, consumption, sales, imports, storage capacity, stocks, prices.
- 5. **Natural Gas** - Production, import, consumption.
- 6. **Renewables** - Installed capacity, generation share, distribution.

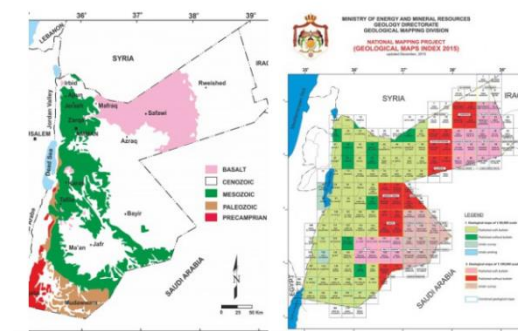
And Mineral resources Data like Geological Maps....

Established in MEMR in 2016 and currently been transferred to EMRC as stated in its Law 8/2017 article 17

المادة ١٧-أ-١- على الهيئة إنشاء نظام المعلومات الوطني للقطاع يتألف من قاعدة بيانات مركزية متكاملة قائم على استخدام تقنيات المعلومات الحديثة ويشتمل على نشاطات القطاع والسوق الأساسية والاحصاءات المتعلقة بعمل القطاع في المملكة، ومراجع المعلومات العالمية لاستخدامها أداة تخطيط استراتيجي للحكومة وللأطراف المعنية، ولإعلام الجمهور دوريا بوضع القطاع.

Geology of Jordan

Published: 26 January 2016 Created: Tuesday, 24 May 2016 Hits: 2547



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Collecting Data

- Currently there is no specific legislation underpinning the monthly oil data collection.
- In the absence of legislation, MEMR team collect data from the companies without any interruption.
- MEMR collects these types of data:
 - ❖ monthly and yearly data from the related companies and then processed & used in completing the energy balance and annual reports usually during the first quarter of each year.
 - ❖ Other data from surveys which belongs to the energy consumption in all sectors: households, industry, agriculture, transportation, etc .
- Data collection Methodology includes formal MEMR letters, by phone and email.



Communication with data provider

- - MEMR has a good relation with all companies and other institutions in the sector, so the data which comes from these providers covers all MEMR needs.
- - If we notice any mistakes or suspicious numbers, we contact the data provider to verify them, also we conduct regular meetings.



Data Processing

- The data which was collected is entered and stored as a database, then we do many processes on it:
 - ❖ In case of energy balance we convert the data to (TOE) by using IEA conversion factors.
 - ❖ In case of surveys we analyze the data by (SPSS) programs to achieve our goals from the surveys.
- All these tasks were done by computers, which makes it very easy to notice errors especially in the energy balance.

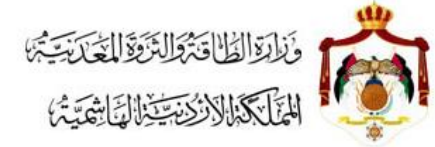


Local Surveys (Arabic only)

الرئيسية • العطاءات • روابط المفيدة • الشكاوي و الاقتراحات • فرص عمل • بريد الموظفين


English  ابحث هنا

A- | A | A+



وزارة الطاقة والمياه
المملكة الأردنية الهاشمية

اتصل بنا | البيانات المفتوحة | المركز الاعلامي | الخدمات الالكترونية | المشاريع | التشريعات | الوزارة

الدراسات | المنشورات | 

البيانات المفتوحة

- التقارير السنوية
- برشور الطاقة
- الدراسات
- احصاءات الطاقة
- نظام معلومات قطاع الطاقة
- الحزم التسويقية
- الخرائط والتقارير الجيولوجية
- خطة الأردن 2025

دراسة مسح استهلاك الطاقة في القطاع الخدمات لعام 2014

دراسة مسح استهلاك الطاقة في القطاع التجاري لعام 2014

دراسة مسح استهلاك الطاقة في القطاع الزراعي لعام 2014

دراسة مسح استهلاك الطاقة في قطاع النقل لعام 2012

دراسة مسح استهلاك الطاقة في القطاع الصناعي لعام 2012

دراسة مسح استهلاك الطاقة في القطاع المنزلي لعام 2013

<http://memr.gov.jo/Pages/viewpage.aspx?pageID=130>



www.memr.gov.jo

International Surveys

- Data is provided from the Statistics & Info Unit through special forms & online surveys to the following international organizations:
- OECD
- World Bank
- IEA
- World Energy Council



Other stakeholders in the field

- Department of Statistics (DOS)
- Central Bank of Jordan
- Ministry of Finance
- Ministry of Planning & International Cooperation



Energy Sector Institutes other than MEMR

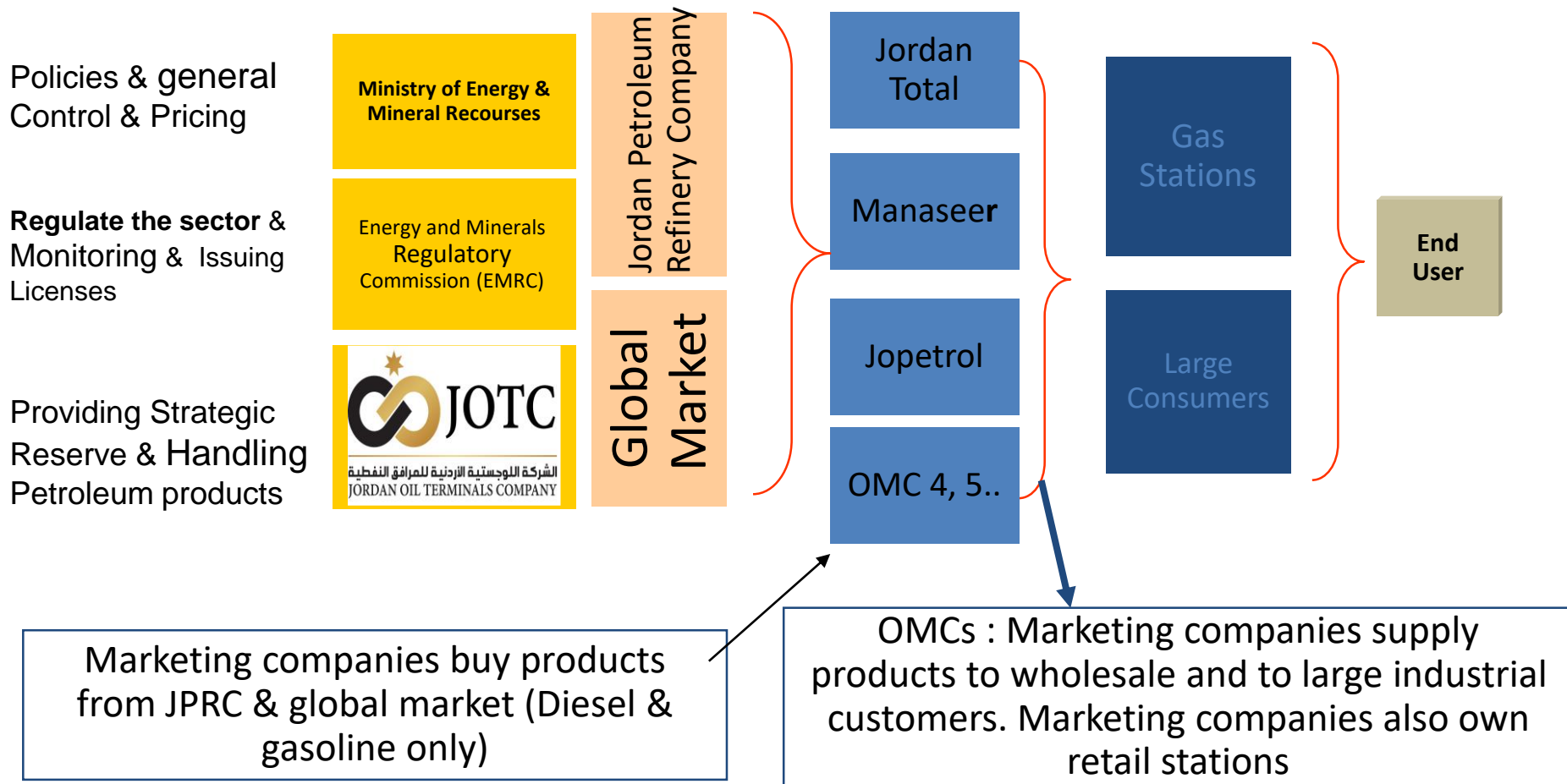


Institution of the Energy Sector

- Energy & Minerals Regulatory Commission (EMRC)
- Electricity Sector:
 - National Electric Power Company (NEPCO)
 - Central Electricity Generating Company (CEGCO)
 - Samra Electric Power Generator Company (SEPGCO)
 - Electricity Distribution Companies
 - * Jordan Electric Power Company (JEPCO)
 - * Irbid District Electricity Company (IDECO)
 - * Electricity Distribution Company (EDCO)
- Petroleum, gas, and mineral institution
 - National Petroleum Company (NPC)
 - Jordan Petroleum Refinery Company (JPRC)
- Other Institutions
 - - National Energy Research Centre (NERC)
 - - Jordanian Nuclear Energy Commission



Example: Petroleum products Sector structure



Contacts



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Thank You

