

## 5. ENERGY

*Energy deals with Electricité du Liban activity, imports, tariffs, and warehouse activity of petroleum products, and geographic distribution of hydrocarbon statistics.*

### Electricité du Liban



Source: <http://www.edl.gov.lb/photogallery.htm>

Energy production 10,282 million KWh:

- Thermal energy: 99.1%.
- Hydraulic energy: 0.9%.

Energy purchases are 1,623 million KWh:

- Thermal energy: 67.9%.
- Hydraulic energy: 32.1%.

Network energy consumption is 11,909 million KWh:

- Thermal energy: 94.8%.
- Hydraulic energy: 5.2%.

**Table 5.1 – Energy production, purchases, and consumption. Million KWh in 2009**

Energy	Million KWh	%	Peak month. Million KWh	Peak month. %
<b>Production</b>	<b>10,282</b>	<b>100.0</b>	<b>July (989)</b>	<b>July ( 9.6)</b>
Thermal	10,188	99.1	July (985)	July (9.7)
Hydraulic	93	0.9	March (16)	March (16.8)
<b>Purchases</b>	<b>1,623</b>	<b>100.0</b>	<b>October (201)</b>	<b>October ( 12.4)</b>
Thermal	1,103	67.9	October (156)	October (14.2)
Hydraulic	521	32.1	May & August (60)	May & August (11.6)
<b>Network consumption</b>	<b>11,909</b>	<b>100.0</b>	<b>July (1,113)</b>	<b>July ( 9.3)</b>
Thermal	11,295	94.8	July (1,057)	July (9.4)
Hydraulic	614	5.2	May (74)	March (12.0)

Table made by CAS based on Electricité du Liban data (2009)

Total hydraulic energy is 93 million KWh:

- Qadisha station production: 76.9%.
- Safa Station production: 23.1%.

**Table 5.2 – Thermal energy production, purchases and consumption. Million KWh in 2009**

Thermal energy	Million KWh	%	Peak month. Million KWh	Peak month. %
<b>Total production</b>	<b>10,188</b>	<b>100</b>	<b>July (985)</b>	<b>July (9.7)</b>
Mixed	5,476	53.7	July (534)	July (9.8)
Steam	3,975	39.0	July (395)	July (9.9)
Gas	482	4.7	March (72)	March (15.0)
Qadisha	256	2.5	May (27)	May (10.5)
<b>Network consumption</b>	<b>11,295</b>	<b>100</b>	<b>July (1,057)</b>	<b>July (9.4)</b>
Mixed	5,476	48.5	July (534)	July (9.8)
Steam	4,231	37.5	July (416)	July (9.8)
From Syria	579	5.1	October (96)	October (16.6)
From Egypt	528	4.7	December (79)	December (15.0)
Gas	482	4.3	March (72)	March (15.0)

Table made by CAS based on Electricité du Liban data (2009)

EDL power stations produced 11,909 million KWh:

- Thermal energy: 85.6%.
- Hydraulic energy: 5.2%.
- Purchased from other countries: 9.3%.

Night average power is 17,005 MW:

- Thermal energy: 92.5%.
- Hydraulic energy: 7.5%.

**Table 5.3 – Production of EDL power stations. Million KWh in 2009**

Thermal energy	Million KWh	%	Peak month. Million KWh	Peak month. %
<b>Total energy</b>	<b>11,909</b>	<b>100</b>	<b>July (1,113)</b>	<b>July (9.3)</b>
<i>Hydraulic energy</i>	<i>614</i>	<i>5.2</i>	<i>May (74)</i>	<i>May (12.0)</i>
Litani	381	62.1	August (57)	August (15.0)
<i>Thermal energy</i>	<i>10,188</i>	<i>85.6</i>	<i>July (985)</i>	<i>July (9.7)</i>
Dair Ammar	2,831	27.8	January (290)	January (10.2)
<i>Purchase from other countries</i>	<i>1,106</i>	<i>9.3</i>	<i>October (156)</i>	<i>October (14.1)</i>
From Syria	579	5.23	October (96)	October (16.6)

*Table made by CAS based on Electricité du Liban data (2009)*

### Imports of petroleum products

Petroleum products are of several types: liquid gas, unleaded petrol 98 and 95 Octane, kerosene for aircraft, imported oil by the private sector (Diesel oil), imported oil by the Ministry of Energy and Water for Electricité du Liban and for the local market (imported through the refineries of Tripoli and Zahrani), imported fuel-oil by the Ministry of Energy and Water for Electricité du Liban and asphalt.

**Table 5.4 – Imports of oil products. Tonnes in 2009**

Oil products	Tonnes	Peak month. Tonnes	Peak month. %
<i>Ministry of Energy and Water (MEW)</i>	<i>3,5770,889</i>	<i>January (460,206)</i>	<i>January (12.9)</i>
Imported fuel-oil by MEW for EDL	1,277,690	August (146,818)	August (12.0)
Imported oil by MEW for EDL	1,199,241	February (195,383)	February (16.3)
Imported oil by MEW for the local market	1,133,186	January (264,676)	January (23.4)
Imported fuel-oil by MEW for the local market	10,773	February (5,914)	February (54.9)
<i>Others</i>	<i>1,740,605</i>	<i>November (268,037)</i>	<i>November (15.4)</i>
Unleaded petrol 95 octane	886270	November (125,057)	November (14.1)
Imported oil by the private sector (Diesel oil)	230,270	January (39,604)	January (17.2)
Imported oil by the private sector	184,000	July (50,000)	July (27.2)
Unleaded petrol 98 octane	158,901	November (33,469)	November (21.1)
Kerosene for aircraft	123,042	July (25,840)	July (21.0)
Liquid gas	102,397	October (22,450)	October (21.9)
Asphalt	55,659	December (10,613)	December (19.1)
<i>Refineries of Tripoli and Zahrani</i>	<i>1,180,719</i>	<i>January (264,676)</i>	<i>January (22.4)</i>
Gas-oil	1,169,947	January (264,676)	January (22.6)
Fuel-oil	10,772	February (5,913)	February (54.9)

*Table made by CAS based on the Ministry of Energy and Water data (2009)*

## Tariffs of petroleum products

The Ministry of Energy and water publishes weekly tariffs of several petroleum products.

**Table 5.5 – Tariffs of petroleum products in January and December. LBP in 2009**

Petroleum product	2009		
	January price. LBP	December price. LBP	2009 price change. %
Oil octane 98	23,500	31,700	34.9
Oil octane 95	22,800	31,000	36.0
Kerosene	14,100	19,300	36.9
Mazout	13,000	16,300	25.4
Deizel oil for vehicles	14,400	19,500	35.4
Fuel-oil. Kkiloliter	196	502	56.1
Liquid gas cylinder. 10 Kg	10,200	15,700	53.9
Liquid gas cylinder. 12 Kg	12,200	19,100	56.6
Liquid gas. Tonnes	582	894	53.6
Propane. Tonnes	608	918	51.0
Butane. Tonnes	508	888	74.8

*Table made by CAS based on the Ministry of Energy and Water data (2009)*

All the prices increase in 2009 as they follow the international petroleum products prices.

## Petroleum products warehouses activity

40 companies deal with the General Directorate of Petroleum to import and stock petroleum products.

**Table 5.6 –Petroleum products withdrawals. Quantities in 2009**

Product withdrawal	2009		
	Total quantity	Peak month. Quantity	Peak month. %
Oil octane 95. Liters	1,781,598,293	November (184,607,566)	November (10.4)
Diesel. Liters	365,574,557	February (38,846,774)	February (10.6)
Oil octane 98. Liters	355,328,834	August (37,797,095)	August (10.6)
Kerosene for planes. Liters	229,668,718	December (30,536,167)	December (13.3)
Liquid gas. Kg	165,521,133	January (19,945,980)	January (12.1)
Asphalt. Kg	27,548,957	October (4,425,186)	October (16.1)
Kerosene for households. Liters	1,801,360	June (530,812)	June (29.5)

*Table made by CAS based on the Ministry of Energy and Water data (2009)*

## New hydrocarbon stations by Mohafazat

43 new hydrocarbon stations open in 2009 in Lebanon:

- Mount-Lebanon is the peak Mohafazat: 37.4%.
- Bekaa is the second Mohafazat: 20.9%.

