

## 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 in 2010



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

Energy production 10,486 million KWh:

- Thermal energy: 99.0%.
- Hydraulic energy: 1.0%.

Energy purchases are 1,557 million KWh:

- Thermal energy: 50.8%.
- Hydraulic energy: 49.2%.

Network energy consumption is 12,467 million KWh:

- Thermal energy: 93.2%.
- Hydraulic energy: 6.8%.

**Table 5.1 – Energy production, purchases, and consumption. Million KWh in 2010**

Energy	Million KWh	%	Peak month. Million KWh	Peak month. %
<b>Production</b>	<b>10,486</b>	<b>100.0</b>	<b>August (1,084)</b>	<b>August ( 10.3)</b>
Thermal	10,378	99.1	August (1,083)	August (10.4)
Hydraulic	107	0.9	November (35)	November (32.3)
<b>Purchases</b>	<b>1,557</b>	<b>100.0</b>	<b>April (240)</b>	<b>April ( 15.4)</b>
Thermal	791	50.8	November (154)	November (19.5)
Hydraulic	766	49.2	March (111)	March (14.4)
<b>Network consumption</b>	<b>12,467</b>	<b>100.0</b>	<b>July (1,177)</b>	<b>July ( 9.4)</b>
Thermal	11,618	93.2	July (1,134)	July (9.8)
Hydraulic	849	6.8	March (125)	March (14.7)

*Table made by CAS based on Electricité du Liban data (2010)*

Total hydraulic energy is 107 million KWh:

- Qadisha station production: 57.2%.
- Safa Station production: 42.8%.

**Table 5.2 – Thermal energy production, purchases and consumption. Million KWh in 2010**

Thermal energy	Million KWh	%	Peak month. Million KWh	Peak month. %
<b>Total production</b>	<b>10,378</b>	<b>100</b>	<b>July (1,083)</b>	<b>August (10.4)</b>
Mixed	5,570	53.7	July (563)	July (10.1%)
Steam	4,060	39.1	August (426)	August (10.5)
Gas	485	4.7	August (82)	August (16.9)
Qadisha	264	2.5	August (26)	August (9.9)
<b>Network consumption</b>	<b>12,467</b>	<b>100.0</b>	<b>July (1,177)</b>	<b>July ( 9.4)</b>
Mixed	5,570	44.7	July (563)	July (10.1)
Steam	4,323	34.7	August (452)	August (10.5)
From Syria	791	6.3	October (97)	October (12.3)
Gas	485	3.9	August (82)	August (16.9)
From Egypt	448	3.6	November (65)	November (14.5)

*Table made by CAS based on Electricité du Liban data (2010)*

EDL power stations produced 12,459 million KWh:

- Thermal energy: 83.3%.
- Hydraulic energy: 6.7%.
- Purchased from other countries: 10.0%.

Night average power is 17,922 MW:

- Thermal energy: 90.7%.
- Hydraulic energy: 9.3%.

**Table 5.3 – Production of EDL power stations. Million KWh in 2010**

Thermal energy	Million KWh	%	Peak month. Million KWh	Peak month. %
<b>Total energy</b>	<b>12,459</b>	<b>100</b>	<b>July (1,176)</b>	<b>July (9.4)</b>
<i>Hydraulic energy</i>	839	6.7	<i>March (125)</i>	<i>March (14.9)</i>
Litani	666	79.3	March (88)	March (13.3)
<i>Thermal energy</i>	<i>10,378</i>	<i>83.3</i>	<i>August (1,083)</i>	<i>August (10.4)</i>
Dair Ammar	2,660	25.6	July (290)	July (10.9)
<i>Purchase from other countries</i>	<i>1,241</i>	<i>10.0</i>	<i>November (154)</i>	<i>November (12.4)</i>
From Syria	792	63.9	October (97)	October (12.3)

*Table made by CAS based on Electricité du Liban data (2010)*

### 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 2010**

Oil products	Tonnes	Peak month. Tonnes	Peak month. %
<i>Ministry of Energy and Water (MEW)</i>	<i>3,665,759</i>	<i>May (778,464)</i>	<i>May (21.2)</i>
Imported oil by the Ministry of Energy and Water for EDL	1,524,288	May (587,087)	May (38.5%)
Imported fuel-oil by the Ministry of Energy and Water for EDL	1,283,360	September (167,784)	September (13.1)
Imported oil by the Ministry of Energy and Water for the local market	858,112	January (119,401)	January (13.9)
<i>Others</i>	<i>5,441,241</i>	<i>May (3,292,148)</i>	<i>May (60.5)</i>
Imported oil by the private sector (Diesel oil)	3,490,380	May (3,171,304)	May (90.9)
Unleaded petrol 95 Octane	1,067,351	August (163,586)	August (15.3)
Unleaded petrol 98 Octane	250,027	December (36,776)	December (14.7)
Kerosene for aircraft	230,950	November (37,307)	November (16.2)
Imported fuel oil by the private sector	199,724	October (48,829)	October (24.4)
Liquid Gas	117,975	March (15,533)	March (13.2)
Asphalt (Bitumen)	84,833	April (16,158)	April (19.0)
<i>Refineries of Tripoli and Zahrani</i>	<i>887,891</i>	<i>January (119,401)</i>	<i>January (13.4)</i>
Gas-oil	887,891	January (119,401)	January (13.4)

*Table made by CAS based on the Ministry of Energy and Water data (2010)*

## 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 and USD in 2010**

Petroleum product	2010		
	January price. LBP	December price. LBP	2010 price change. %
Oil octane 98 in LBP	31,700	35,700	12.6%
Oil octane 95 in LBP	31,000	35,000	12.9%
Kerosene in LBP	19,300	23,700	22.8%
Mazout in LBP	16,300	24,000	47.2%
Deizel oil for vehicles in LBP	19,500	24,500	25.6%
Fuel-oil. Kkiloliter in LBP	494	520	5.3%
Fuel-oil. 1% sulfur in LBP	501	543	8.4%
Liquid gas cylinder. 10 Kg in LBP	15,900	19,600	23.3%
Liquid gas cylinder. 12 Kg in LBP	19,300	23,900	23.8%
Liquid gas. Tonnes in USD	904	1,149	27.1%
Propane. Tonnes in USD	928	1,226	32.1%
Butane. Tonnes	898	1,130	25.8%

*Table made by CAS based on the Ministry of Energy and Water data (2010)*

All the prices increase in 2010 as they follow the international petroleum products prices. Mazout price in LBP displayed the highest increase (47.2%).