

PART III – INDUSTRY AND ENERGY

4. INDUSTRY 2011 - 2013

Industry deals with the cement deliveries, tobacco production, and industrial products

Cement deliveries

Cement deliveries increased of 125.3% between 1993 and 2013 to reach 5,830,616 tons in 2013. This explains the boom of the real estate sector. Nevertheless, this increase is not continuous as the following table shows.

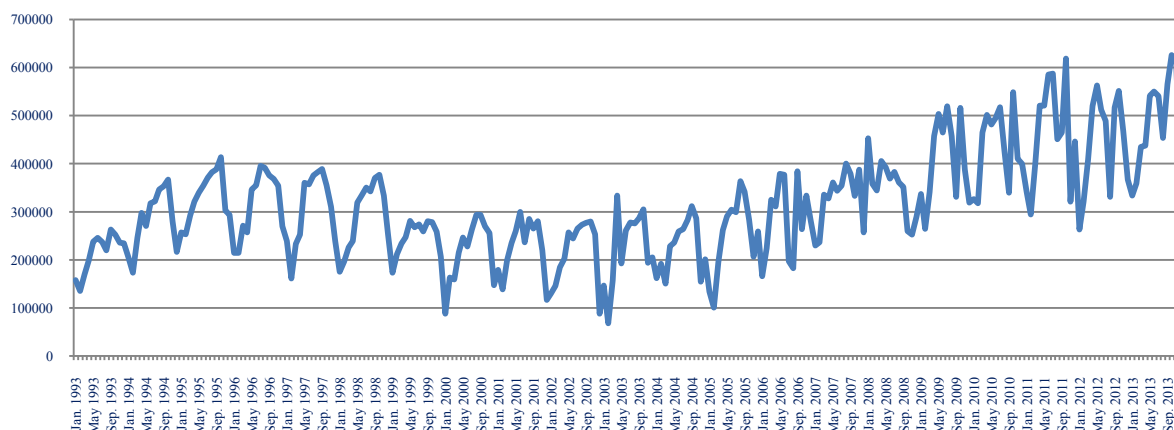
Table 4.1 – Cement deliveries. Tons per year

Year	Tons
1993	2,587,470
1994	3,394,682
1995	3,967,977
1996	3,811,935
1997	3,654,218
1998	3,515,345
1999	2,970,504
2000	2,623,315
2001	2,714,611
2002	2,601,325
2003	2,704,338
2004	2,728,977
2005	3,039,622
2006	3,422,927
2007	3,944,945
2008	4,219,257
2009	4,897,460
2010	5,226,621
2011	5,549,769
2012	5,308,550
2013	5,830,616

Table made by CAS based on Central Bank of Lebanon data (2013)

As a matter of fact, Cement deliveries increased between 1993 and 1995. The decrease started in 1996 to reach its lowest value in 2002 (2,601,325 tons). This delivered quantity started increasing in 2003 to reach its peak in 2013 (5,830,616 tons). Nevertheless, this ascending trend witnessed a decrease in 2012 (5,308,550 tons).

Graph 4.1 – Cement deliveries. Tons in 1993-2013



Graph made by CAS based on Central Bank of Lebanon data (2013)

Tobacco

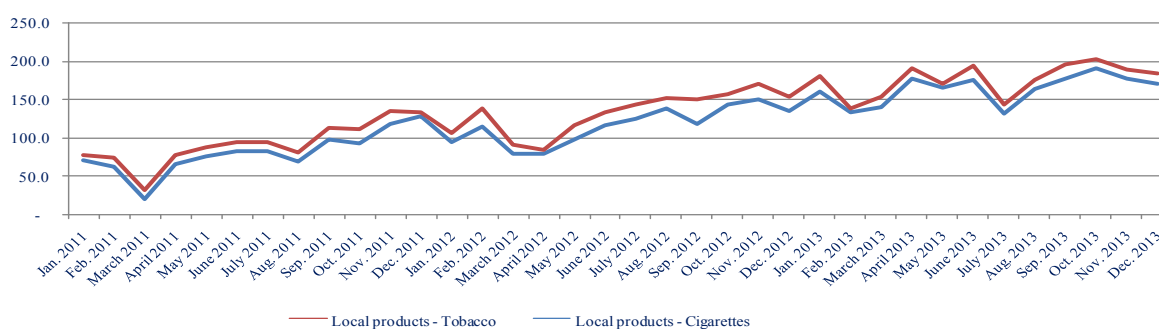
Local tobacco products production increased of 90.0% between 2011 and 2013 to reach 2,119 tons.

Table 4.2 – Local tobacco production. Tons per year

Production. Tons	2011	2012	2013
Local products - Cigarettes	955	1,381	1,955
Local products - Tobacco	161	220	164
Total production	1,115	1,602	2,119

Table made by CAS based on Régie des Tabacs data (2011-2013)

Graph 4.2 – Local tobacco products production. Tons



Graph made by CAS based on Régie des Tabacs data (2011-2013)

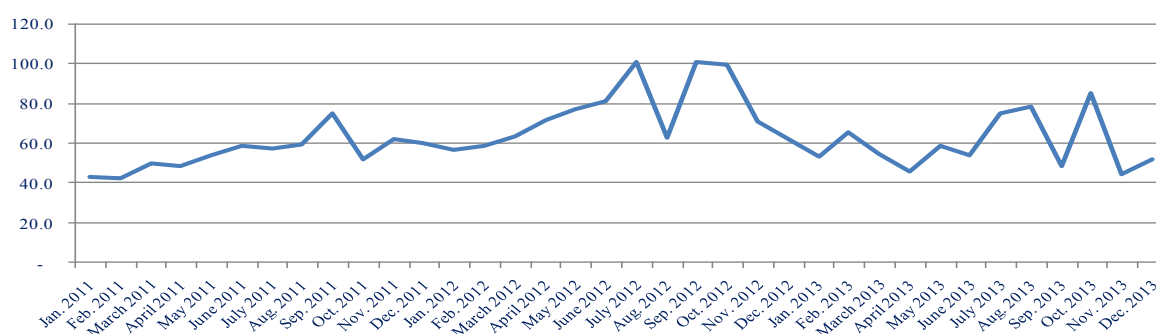
Local and imported tobacco products sales increased of 7.9% to reach 714.3 million USD. This increase is discontinuous as the sales increased in 2012 and decreased in 2013.

Table 4.3 – Sales of local and imported tobacco products. Million USD per year

Sales. Million USD	2011	2012	2013
Local products - Cigarettes	17.5	25.8	36.1
Local products - Tobacco	1.0	1.8	1.1
Imported products - Cigarettes	594.0	825.3	624.7
Imported products - Mouassal	39.5	42.5	44.5
Imported products - Cigars	6.8	7.7	4.1
Imported products - Cigarillos	2.6	3.0	3.5
Imported products - Pipe tobacco	0.4	0.7	0.5
General total of sales	661.9	906.8	714.3

Table made by CAS based on Régie des Tabacs data (2011-2013)

Graph 4.3 – Sales of local and imported tobacco products. Million USD



Graph made by CAS based on Régie des Tabacs data (2011-2013)

Industrial products

Industrial products deal with exports by product, by group of countries, imports of industrial equipment and machinery by country and by type, and total industrial permits.

Industrial exports by product

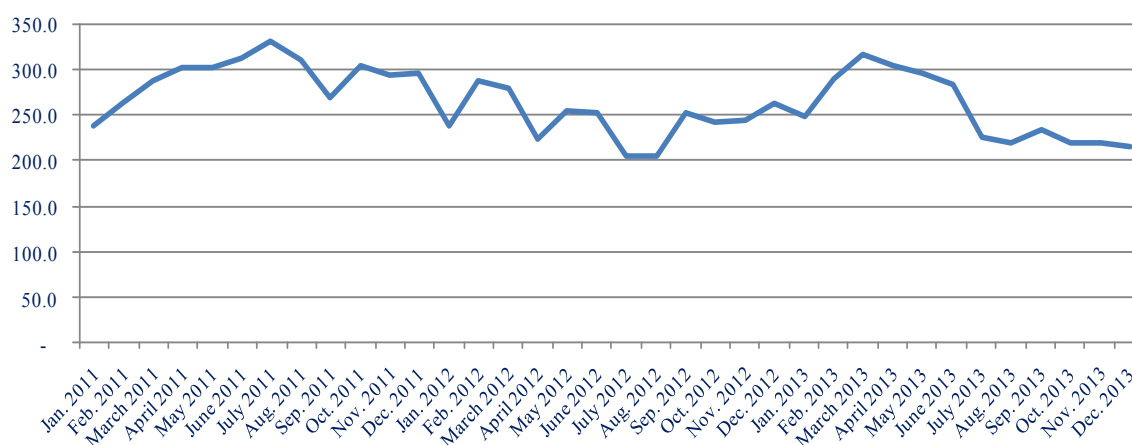
Total industrial exports decreased of 12.6% between 2011 and 2013 to reach 3,077 million USD. This decrease started in 2012 but the exports increased again in 2013 but did not reach the year 2011 level.

Table 4.4 – Industrial Exports. Million USD per year

Industrial exports	2011	2012	2013
Base metals & articles of base metal	525	471	527
Footwear, headgear & prepared feather	23	25	508
Prepared foodstuffs	380	392	453
Mineral Products	35	132	356
Products of the chemical industry	384	343	329
Paper & paperboard and articles thereof	216	182	175
Pearls, precious metals and jewelry except raw gold ingots	931	388	156
Plastics & articles thereof	134	146	144
Textiles & textile articles	129	117	122
Miscellaneous manufactured articles	95	107	113
Articles of stone, plaster, and cement	37	43	43
Electric machinery and mechanical appliances	519	478	37
Transport equipment	37	42	35
Optical instruments & apparatus	22	18	21
Woods and articles of wood	15	21	21
Raw hides & skins, leather, fur skins	14	16	19
Fats & edible fats & oils	21	31	19
Arms & ammunitions	1	0	0
Total. Million USD	3,520	2,951	3,077

Table made by CAS based on Industry General Directorate data (2011-2013)

Graph 4.4 – Industrial exports. Million USD



Graph made by CAS based on Industry General Directorate data (2011-2013)

Industrial exports by group of countries

Lebanon exports mainly to Arab countries, to Asia, and to Africa.

Table 4.5 – Industrial Exports by groups of countries. Thousand USD per year

Groups of countries	2011	2012	2013
Arab countries	1,363,245	1,520,741	1,789,758
Asia excluding Arab countries	552,629	350,357	400,518
Africa	735,683	466,488	383,646
Europe	745,408	443,462	337,592
America	90,871	101,866	115,377
Miscellaneous	18,676	47,160	35,972
Oceania	13,737	11,922	13,275
Total	3,520,249	2,941,996	3,076,138

Table made by CAS based on Industry General Directorate data (2011-2013)

Industrial permits

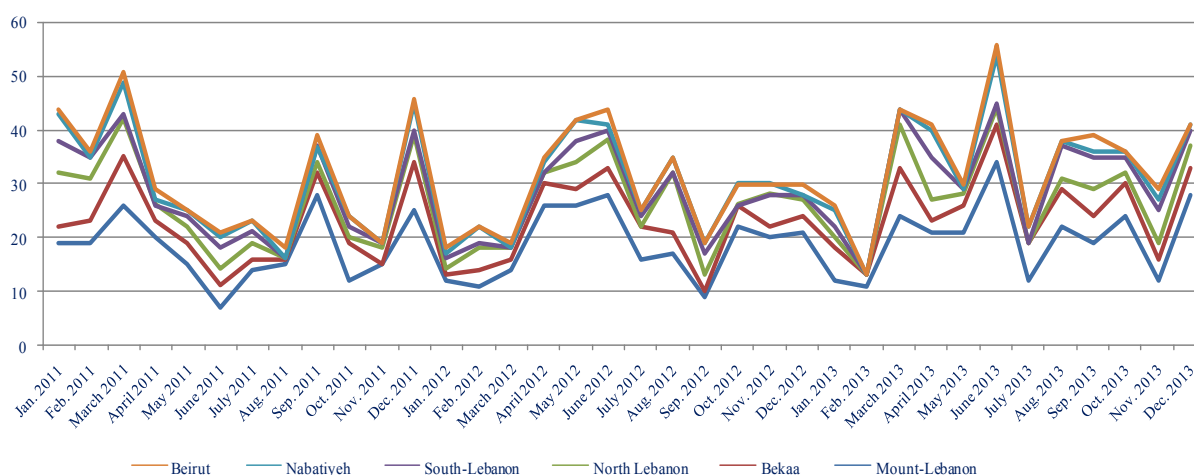
Industrial permits are given by mohafazat, by category, and by type of activity. Their numbers increased of 10.7% between 2011 and 2013 to reach 415 in 2013.

Table 4.6 – Industrial permits. Numbers per year

Mohafazat	2011	2012	2013
Mount-Lebanon	215	222	240
Bekaa	50	38	65
North Lebanon	48	42	35
South-Lebanon	26	16	39
Nabatiyeh	24	23	26
Beirut	12	8	10
Total	375	349	415

Table made by CAS based on Industry General Directorate data (2011-2013)

Graph 4.5 – Industrial permits by Mohafazat. Number



Graph made by CAS based on Industry General Directorate data (2011-2013)

Imports of Industrial Equipment and Machinery by country

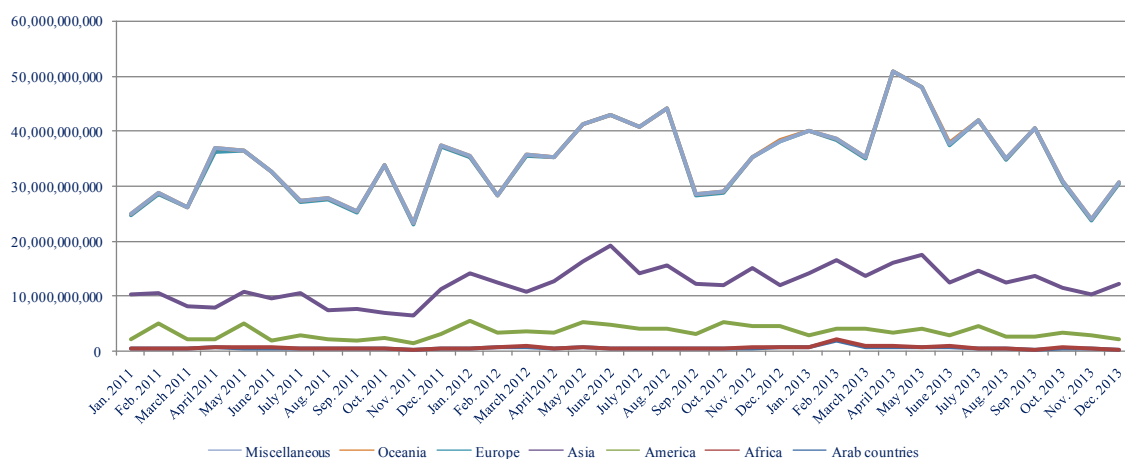
Imports of industrial equipment and machinery increased of 25.9% between 2011 and 2013 to reach LBP 452,888,901,247 in 2013. The increase was on a continuous basis. Lebanon mainly imports equipment from Europe (70.0% of total imports in 2011, 61.7% in 2012, and 63.5% in 2013).

Table 4.7 – Imports of industrial equipment and Machinery by group of countries. LBP per year

Group of countries	2011	2012	2013
Europe	251,944,811,705	268,012,612,963	287,709,967,421
Asia	75,810,155,015	116,266,693,773	126,782,747,669
America	27,512,923,733	45,083,980,663	31,447,721,384
Arab countries	3,190,738,909	4,206,307,141	6,004,747,165
Oceania	1,125,652,703	445,662,057	652,126,483
Africa	130,575,560	324,275,438	245,940,465
Miscellaneous	24,300,000	4,800,858	45,650,660
Total	359,739,157,625	434,344,332,894	452,888,901,247

Table made by CAS based on Industry General Directorate data (2011-2013)

Graph 4.6 – Imports of industrial equipment and Machinery. LBP



Graph made by CAS based on Industry General Directorate data (2011-2013)

Imports of industrial equipment and machinery was around 452 billion LBP in 2013. The top three types if we dicard miscellaneous were: for food and industry (16.0%), For paper and paperboard (6.0%), For metal products (5.9%), and also For plastics and thereof (5.9%).

Table 4.8 – Imports of industrial equipment and Machinery by type. LBP in 2013

Industrial Equipment and Machinery	Total	%
Miscellaneous	180,392,659,372	39.9%
For food industry	72,220,380,162	16.0%
For paper and paperboard	27,228,666,720	6.0%
For metal products	26,596,175,527	5.9%
For plastics and thereof	26,550,891,484	5.9%
For printing and binding	26,305,268,320	5.8%
For packaging	25,087,664,310	5.5%
For automatic tools	17,301,210,310	3.8%
For medical equipments	15,693,088,980	3.5%
For videotaping and CDs	11,828,370,520	2.6%
Clothes and textiles	10,440,880,562	2.3%
For electrical installation	4,323,855,932	1.0%
For combining construction material	1,944,674,729	0.4%
For animal foodstuff	1,601,146,234	0.4%
For construction stones	1,433,224,697	0.3%
For chemical industry	1,365,048,216	0.3%
For leather and shoes	892,518,158	0.2%
For tools and equipments	667,970,140	0.1%
For wood	240,982,904	0.1%
Total 2013	452,114,677,277	100.0%

Table made by CAS based on Industry General Directorate data (2013)

5. ENERGY 2011 - 2013

Energy deals with Electricité du Liban (EDL) activity, imports, and tariffs of petroleum products

Electricité du Liban



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

EDL global activity in 2011 - 2013:

- Total energy production: 29,951 million KWh (peak in 2011 : 36.2%)
- Total energy purchases: 6,003 million KWh (peak in 2013 : 46.4%)
- Total network consumption : 35,654 million KWh (peak in 2011 : 35.5%).

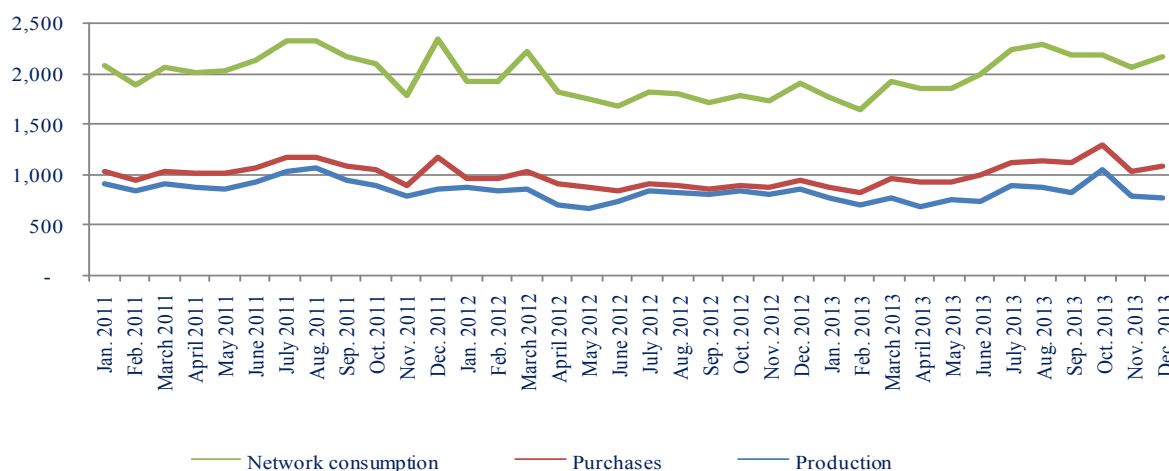
Table 5.1 – Energy production, purchases, and consumption. Million KWh in 2011 – 2013

Energy. Million KWh	2011	2012	2013
Production	10,837	9,569	9,545
Thermal	85	104	327
Hydraulic	10,751	9,465	9,218
Purchases	1,820	1,397	2,786
Thermal	720	1,073	942
Hydraulic	1100	324	1,844
Network consumption	12,657	11,109	11,888
Thermal	805	1,177	1,035
Hydraulic	11,852	9,932	10,854

Table made by CAS based on Electricité du Liban data (2011-2013)

This table shows that electricity total production decreased of 11.9% during the period 2011 – 2013 to reach 9,545 in 2013. As for the purchases, they increased due to buying the electricity from Turkish boats of 229.8% to reach 2,786 in 2013. Finally, the network consumption has no clear trend as it decreased in 2012 compared to 2011, and it increased again in 2013.

Graph 5.1 – EDL activity. Million KWh



Graph made by CAS based on EDL data (2011-2013)

Imports of petroleum products

Petroleum products are of several types. Total imports of petroleum products during the period 2011-2013 are governed by the other economic sectors which imported 10,310,481 tons (48.7% of total imports), Ministry of Energy and Water (MEW) with 8,837,419 tons (41.7%), and finally the Refineries of Tripoli and Zahrani with 2,023,737 tons (9.6%).

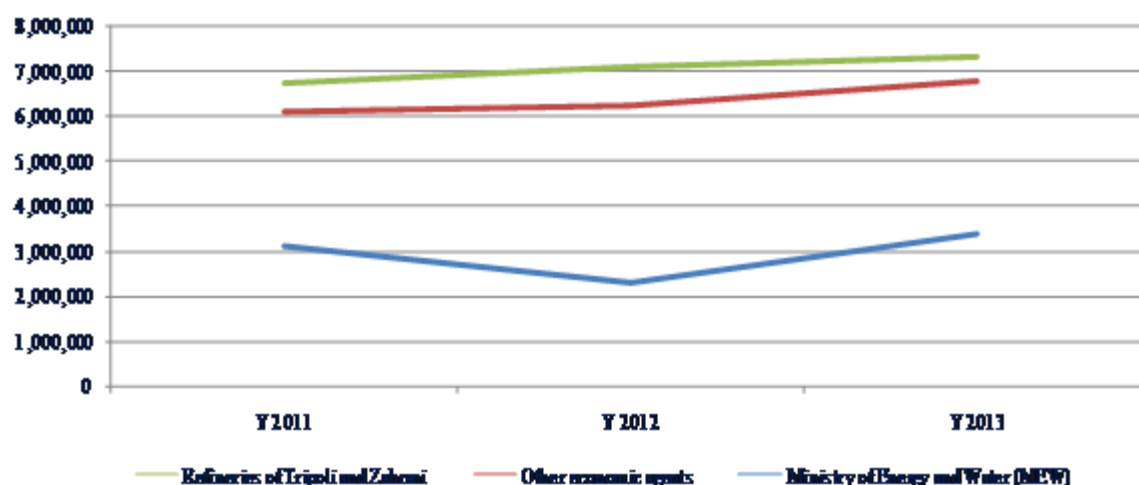
Table 5.2 – Imports of oil products. Tons in 2011 – 2013

Oil products	2011	2012	Change 2012/2011. %	2013	Change 2013/2012. %	Change 2013/2011. %
<i>Ministry of Energy and Water (MEW)</i>	3,114,387	2,316,212	-25.6	3,406,820	47.1	9.4
Imported oil by the Ministry of Energy and Water for EDL	1,291,126	1,302,223	0.9	1,707,428	31.1	32.2
Imported fuel-oil by the Ministry of Energy and Water for EDL	1,186,775	893,712	-24.7	1,173,731	31.3	-1.1
Imported oil by the Ministry of Energy and Water for the local market	636,486	120,277	-81.1	525,661	337.0	-17.4
<i>Other economic agents</i>	2,992,765	3,927,713	31.2	3,390,003	-13.7	13.3
Imported oil by the private sector (Diesel oil)	498,386	752,170	50.9	1,262,759	67.9	153.4
Unleaded petrol 95 Octane	1,555,771	1,326,203	-14.8	1,282,631	-3.3	-17.6
Unleaded petrol 98 Octane	246,747	207,876	-15.8	223,166	7.4	-9.6
Kerosene for aircraft	209,847	207,337	-1.2	258,891	24.9	23.4
Imported fuel oil by the private sector	160,586	752,170	368.4	119,149	-84.2	-25.8
Liquid Gas	266,242	123,896	-53.5	192,071	55.0	-27.9
Asphalt (Bitumen)	55,186	558,061	911.2	51,336	-90.8	-7.0
<i>Refineries of Tripoli and Zahrani</i>	636,513	861,563	35.4	525,661	-39.0	-17.4
Gas-oil	636,513	861,563	35.4	525,661	-39.0	-17.4

Table made by CAS based on the Ministry of Energy and Water data (2011-2013)

The previous table shows that there is no clear trend of the changes of the imports of petroleum products during the period 2011 – 2013.

Graph 5.2 – Imports of petroleum products. Tons



Graph made by CAS based on Ministry of Energy and Water data (2011-2013)

Tariffs of petroleum products

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

Table 5.3 – Tariffs of petroleum products. LBP at the end of period 2011-2013

Petroleum product	Price. 2011	Price. 2012	Change 2013/2011. %	Price. 2013	Change 2013/2012. %	Change 2013/2011. %
Butane tons. USD	1,104	1,125	1.9	1,304	15.9	18.1
Liquid gas cylinder 10 Kg. LBP	18,700	19,400	3.7	21,900	12.9	17.1
Liquid gas cylinder 12 Kg. LBP	22,900	23,700	3.5	26,800	13.1	17.0
Propane. Tons in USD	1,052	1,203	14.4	1,186	-1.4	12.7
20 liters Oil octane 95. LBP	31,700	33,200	4.7	33,100	-0.3	4.4
20 liters Oil octane 98. LBP	32,400	33,800	4.3	33,800	0.0	4.3
20 liters Mazout. LBP	26,000	26,300	1.2	27,000	2.7	3.8
20 liters Kerosene. LBP	28,200	28,700	1.8	28,800	0.3	2.1
Fuel-oil Kiloliter. LBP	664	627	-5.6	635	1.3	-4.4
Liquid gas tons. USD	1,093	1,140	4.3	1,034	-9.3	-5.4
Fuel-oil Kiloliter. 1% sulfur. LBP	717	659	-8.1	677	2.7	-5.6
20 liters Diesel oil for vehicles. LBP	29,400	26,400	-10.2	26,700	1.1	-9.2

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

All petroleum products prices increased between 2011 and 2013 except for the fuel-oil, liquid gas, fuel-oil, and diesel.

Butane in tons witnessed the highest price increase of 18.1% between 2011 and 2013 to reach 1,304 USD. As for Diesel oil for vehicles, it reached the highest price decrease of 9.2% between 2011 and 2013 to reach 26,700 LBP for the 20 liters.