

## BALANCE OF ENERGY

2<sup>nd</sup> QUARTER/2010

No. 2

Consumption of Electricity increased by 28.6% over the previous quarter to 955 million kWh in the second quarter of 2010, upon the arrival of Summer. Electricity consumption by Households surged by 47.3% to 186 million kWh, and that by the Business sector increased by 24.2% to 726 million kWh (Gaming sector shared 45.5%). Meanwhile, local generation of Electricity totalled 226 million kWh, up by 10.6% quarter-to-quarter; imports of Electricity increased by 32.2% to 765 million kWh, raising its relative importance to account for 78.0% of total available supply. For the first half year of 2010, local generation of Electricity decreased by 54.5% year-on-year to 431 million kWh, while imports (1.344 billion kWh) and consumption (1.697 billion kWh) of Electricity increased by 92.5% and 9.7% respectively.

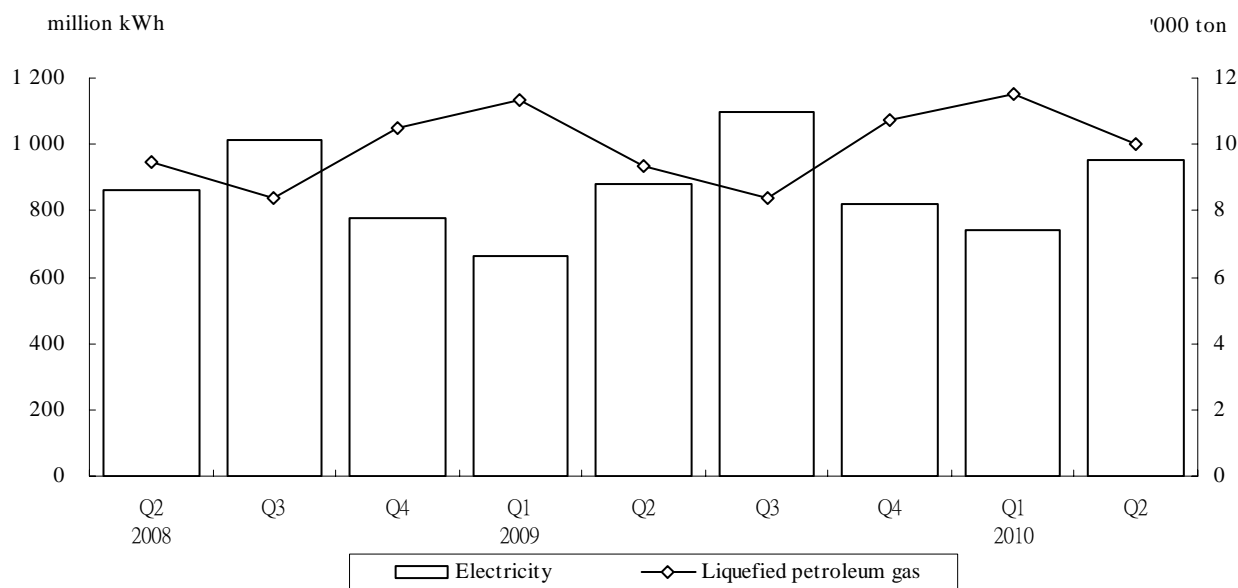
Imports of Natural Gas for electricity generation increased continuously to rise by 10.4% from the previous quarter to 29.57 million cubic metres in the second quarter. For the first half year of 2010, imports of Natural Gas (56.35 million cubic metres) rose by 12.1% year-on-year.

Consumption of Liquefied Petroleum Gas (LPG) decreased by 13.0% quarter-to-quarter to 9,997 tonnes in the second quarter, of which consumption by the Business sector (6,622 tonnes) and Households (3,321 tonnes) fell by 8.8% and 20.1% respectively. Meanwhile, imports of LPG decreased by 24.8% from the previous quarter to 9,294 tonnes, with the average price of imports registering a slight increase of 0.3%. For the first half year of 2010, imports of LPG (21,658 tonnes) increased by 6.5% year-on-year.

The average price of Unleaded Gasoline and Bottled LPG in the second quarter both decreased by 1.6% quarter-to-quarter, but increased by 5.1% and 27.8% respectively year-on-year.

At the end of the second quarter, stock of Fuel Oil (23.37 million litres) increased by 12.4% quarter-to-quarter whereas that of Gas oil & diesel (24.05 million litres) and LPG (2,996 tonnes) decreased by 4.8% and 18.4% respectively.

### Consumption of Electricity and Liquefied Petroleum Gas



Official Statistics. Reproduction of these data is allowed provided the source is quoted.  
Statistics and Census Service

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**Table 1 - Energy imports**

Type of energy	Unit	2009		2010					
		H1	Q2	H1	Q1	Q2	Change (%)		
							Accumulated	Quarter-to-quarter	Year-on-year
Gasoline	'000 L	31,738	16,873	#	#	#	..	..	..
Common kerosene	'000 L	3,467	1,760	#	1,630	#	..	..	..
Gas oil & diesel	'000 L	78,470	38,075	70,549	35,406	35,144	-10.1	-0.7	-7.7
Fuel oil	'000 L	#	#	35,579	17,363	18,216	..	4.9	..
Liquefied petroleum gas	ton	20,330	8,579	21,658	12,364	9,294	6.5	-24.8	8.3
Natural gas	'000 m <sup>3</sup>	50,275	22,574	56,350	26,778	29,572	12.1	10.4	31.0
Electricity	million kWh	698	464	1,344	579	765	92.5	32.2	64.7
<i>Relative importance to available supply</i>	%	43.3	50.7	76.6	75.0	78.0	..	..	..

**Table 2 - Average price of fuel imports**

Type of fuel	Unit	2009		2010					
		H1	Q2	H1	Q1	Q2	Change (%)		
							Accumulated	Quarter-to-quarter	Year-on-year
Gasoline	MOP/L	5.90	6.24	#	#	#	..	..	..
Common kerosene	MOP/L	4.53	4.57	#	5.41	#	..	..	..
Gas oil & diesel	MOP/L	4.89	5.12	5.95	6.03	5.87	21.5	-2.7	14.6
Fuel oil	MOP/L	#	#	4.20	4.23	4.16	..	-1.8	..
Liquefied petroleum gas	MOP/kg	6.29	6.11	7.75	7.74	7.76	23.2	0.3	27.0

**Table 3 - Consumption of energy**

Type of energy	Unit	2009		2010					
		H1	Q2	H1	Q1	Q2	Change (%)		
							Accumulated	Quarter-to-quarter	Year-on-year
Gasoline	'000 L	33,193	16,975	35,004	16,956	18,048	5.5	6.4	6.3
Common kerosene	'000 L	3,303	1,629	3,090	1,576	1,514	-6.5	-3.9	-7.1
Gas oil & diesel	'000 L	73,542	35,925	71,808	35,451	36,356	-2.4	2.6	1.2
Fuel oil	'000 L	139,025	70,736	30,108	14,485	15,623	-78.3	7.9	-77.9
Liquefied petroleum gas	ton	20,669	9,355	21,485	11,488	9,997	3.9	-13.0	6.9
<i>Of which: Business sector</i>		12,348	5,588	13,880	7,258	6,622	12.4	-8.8	18.5
<i>Households</i>		8,128	3,701	7,480	4,159	3,321	-8.0	-20.1	-10.2
Natural gas	'000 m <sup>3</sup>	50,280	22,553	56,406	26,799	29,607	12.2	10.5	31.3
Electricity	million kWh	1,548	883	1,697	743	955	9.7	28.6	8.2
<i>Of which: Business sector</i>		1,179	659	1,311	585	726	11.2	24.2	10.2
<i>(Gaming)</i>		(407)	(229)	(607)	(276)	(330)	(48.9)	(19.7)	(44.5)
<i>Households</i>		286	175	312	126	186	9.0	47.3	6.2

**Table 4 - Available supply of energy**

Type of energy	Unit	2009		2010					
		H1	Q2	H1	Q1	Q2	Change (%)		
							Accumulated	Quarter-to-quarter	Year-on-year
Gasoline	'000 L	35,181	19,048	#	#	#	..	..	..
Common kerosene	'000 L	3,709	2,030	#	1,834	#	..	..	..
Gas oil & diesel	'000 L	101,817	63,759	96,084	60,940	60,419	-5.6	-0.9	-5.2
Fuel oil	'000 L	#	#	53,492	35,276	39,003	..	10.6	-58.5
Liquefied petroleum gas	ton	23,201	11,923	24,427	15,133	12,967	5.3	-14.3	8.8
Natural gas	'000 m <sup>3</sup>	50,355	22,654	56,429	26,857	29,652	12.1	10.4	30.9
Electricity	million kWh	1,613	915	1,754	772	982	8.7	27.1	7.2
<i>Of which local generation</i>		947	468	431	205	226	-54.5	10.6	-51.6

**Table 5 - Average selling price of fuels**

MOP

Type of fuel	2009		2010			
	Q2	Q1	Q2	Change (%)		
				Quarter-to-quarter	Year-on-year	
Gasoline (unleaded) <sup>a</sup> (per litre)	9.09	9.71	9.55	-1.6	5.1	
Common kerosene (per 18 litres)	158	174	177	1.6	12.2	
Gas oil & diesel for industrial use (per 18 litres)	174	191	194	1.7	11.5	
Gas oil & diesel for industrial use (per 200 litres)	1,871	2,058	2,088	1.4	11.6	
Gas oil & diesel for automotive use <sup>a</sup> (per litre)	9.65	10.29	10.47	1.7	8.5	
Fuel oil (per 200 litres)	1,742	1,929	1,956	1.4	12.2	
Bottled liquefied petroleum gas <sup>a</sup> (per kg)	10.06	13.07	12.86	-1.6	27.8	
Centralized liquefied petroleum gas <sup>a</sup> (per m <sup>3</sup> )	28.14	35.68	35.16	-1.5	24.9	

<sup>a</sup> Source: Consumer Prices Survey**Table 6 - Storage capacity and tank stock of fuels as at end of quarter**

Type of fuel	Unit	2009			2010						
		Storage capacity	Q2		Storage capacity	Q1		Q2			Days off-take
			Closing stock	Days off-take		Closing stock	Days off-take	Closing stock	Change (%)		
									Quarter-to-quarter	Year-on-year	
Gasoline	'000 L	5,659	2,196	8	12,609	#	#	#	..	..	#
Common kerosene	'000 L	2,026	395	13	2,003	246	6	#	..	..	#
Gas oil & diesel	'000 L	69,660	27,905	66	76,588	25,275	51	24,050	-4.8	-13.8	49
Fuel oil	'000 L	46,952	#	#	46,930	20,788	128	23,367	12.4	0.6	99
Liquefied petroleum gas	ton	4,867	2,591	18	5,170	3,672	18	2,996	-18.4	15.6	18

**Explanatory notes:**

1. Information on some types of fuels is not published due to statistical confidentiality.
2. Available supply of fuels = Net imports + Opening stock  
Available supply of electricity = Gross production – Plant consumption and losses + Net imports
3. Consumption of fuels = Local sales (excluding sales to energy distributors)  
Consumption of electricity = Electricity sold + Free supply of electricity + Own consumption
4. Days off-take refer to the number of days of reserve in closing stock under normal consumption.

$$\text{Days off-take} = \frac{\text{Closing stock}}{\text{Estimate of sales and self consumption for last month of quarter based on normal consumption}} \times \text{Number of days in next month}$$

**Symbols and abbreviations:**

..	Not applicable
#	Confidential data
MOP	Macao Pataca
kWh	kilowatt-hour
kg	kilogram
m <sup>3</sup>	cubic metre
'000	thousand
L	litre
ton	tonne

Due to rounding, the total may not correspond to the sum of the partial figures.

**The following statistical tables are available for download from our website:**

1. Imports of liquid and gas fuels
2. Storage capacity and tank stock of fuels (end-quarter)
3. Selling prices of fuels
4. Available supply and consumption of electricity
5. Energy balance I – 2<sup>nd</sup> Quarter of 2010
6. Energy balance II – 2<sup>nd</sup> Quarter of 2010
7. Energy balance I – 1<sup>st</sup> Half year of 2010
8. Energy balance II – 1<sup>st</sup> Half year of 2010

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## ACCESS TO STATISTICAL INFORMATION

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Further statistical information can be obtained from the Documentation and Information Centre of the Statistics and Census Service:

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