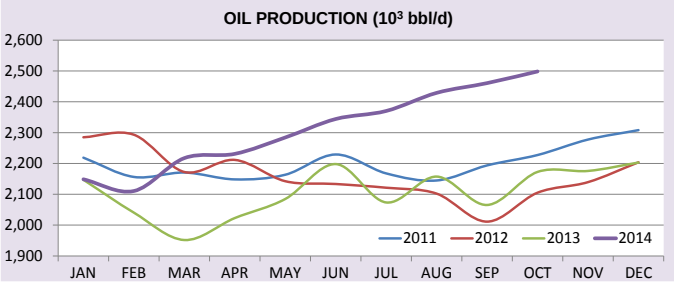

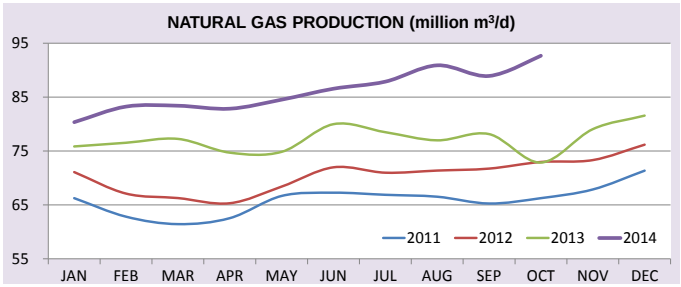

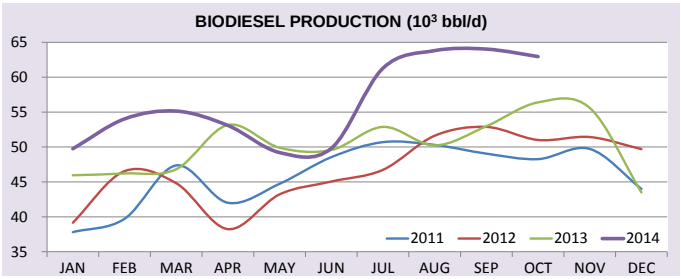

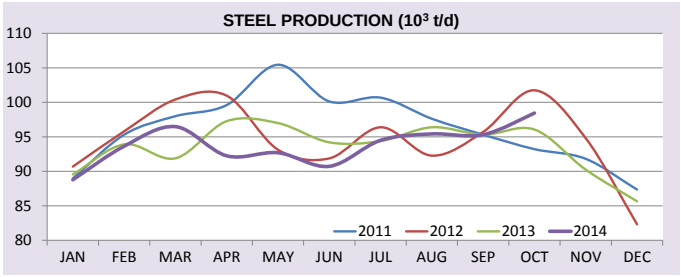

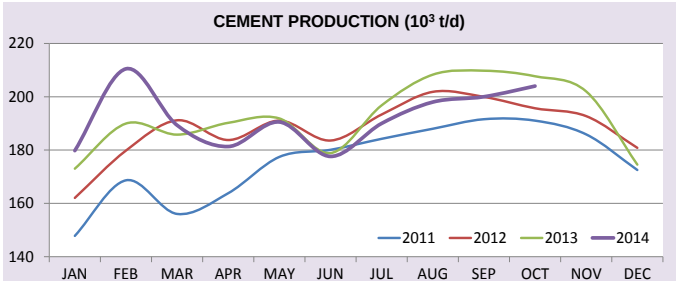

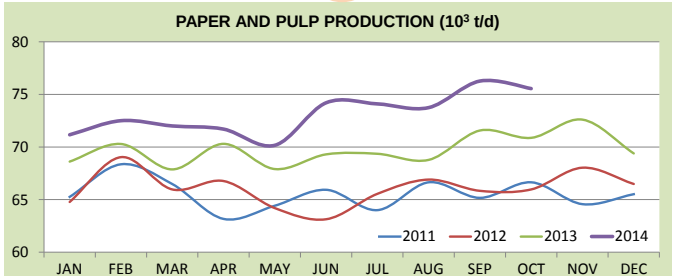

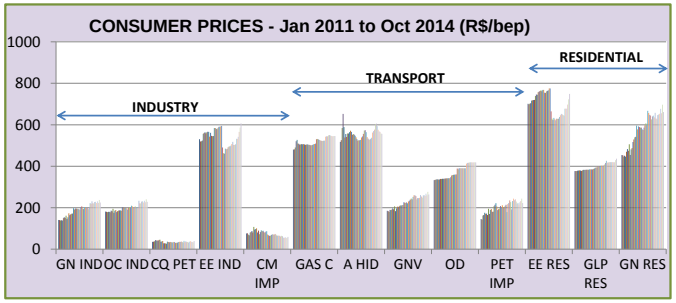

Note: For a better visualization, the graphs minimum scale was raised to the level close to the lowest value of the curves.

Methodological Remarks

The *purpose of this bulletin* is to follow up a set of energy and non-energy variables that provide a reasonable estimate of the behavior both monthly as cumulative of the total energy demand in Brazil.

Total demand of natural gas = domestic production (+) import (-) unused (-) reinjection.

Apparent consumption of oil derivatives = distributors' sales (+) Petrobras' own consumption (including refinery gas) (+) Petrobras' direct sales. The monthly data published in the press and on the ANP website do not consider the own consumption and direct sales of Petrobras, whose volume is about 20% of the total oil products consumption.

(*) *Domestic Energy Supply* (DES), or Total Energy Demand, is the energy required to move the economy of a country or region, and includes final energy consumption in the residential sector and in the other economic sectors, includes losses in transmission and distribution, and losses on power transformation.

"Tonne of oil equivalent" (toe) = 10 Gigacalorias (Gcal), is the standard unit used to consolidate power data. Firewood releases 3,100 cal / g, or 3.1 Gcal / t, when the combustion. The ratio of firewood indicator and oil indicator results in 0.31 toe / t, a factor that converts tons of firewood to toe. The same goes for the other combutíveis.

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Monthly Energy Bulletin - Brazil

Reference Month: October 2014

Domestic Energy Supply

September indicators show slight recovery in domestic consumption of goods and services, but still with a poor performance of some export products such as steel, aluminum, sugar and ethanol. In the aspect of population welfare, persists the good energy performance on individual transport, residential and commercial electricity. In terms of energy supply, continues the decline of hydroelectric generation, which increases the thermal generation and their losses. So, up to September, the available data shows a growth rate of 3.0% on the Domestic Energy Supply (DES) (*) over the same period of 2013.

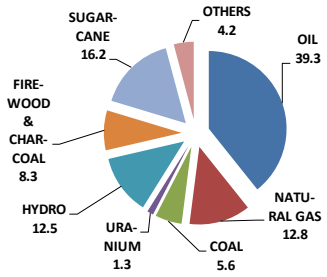
Total energy demand in 2014 may grow between 3.0% and 4.0%

For the full year 2014, the estimates for the DES growth are in the range of 2.5% to 3.5% (the same as the previous month). The reasons are: a) reduction of hydraulic generation and increase in thermal generation and their losses; b) poor performance of sugar-alcohol sector and commodities and; c) good performances of the Otto cycle transportation, electricity and cellulose.

Based on the information available at the time of preparation of this report, the DES's growth rate for 2014 was estimated at 2.8% (2.6% in the previous bulletin). The increase in energy losses due to the thermal generation expansion accounted for almost 1% of the DES rate.

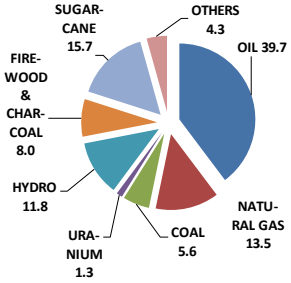
Renewable energy sources should maintain its participation near to 40% in the 2014 DES Matrix, but below of 2013 indicator. The good performance of wind generation, biodiesel production and biomass use in cellulose production do not outweigh the negative effects of weak hydro generation, sugar-alcohol production and residential firewood use.

DES 2013 (%)



296.2 million toe
41.0% renewables

DES 2014 (%)



307.2 million toe
39.8% renewables

MME
MINISTRY OF MINES AND ENERGY - MME
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OFFICE OF STRATEGIC ENERGY STUDIES

Highlights until October 2014

Oil and Gas Production is upwards

Oil production increased 19.1% in September (over the same month in 2013) and 9.9% in the year (including shale oil). The natural gas production increased 13.9% in September and 11% in the year. As a result, external energy dependence over DES is expected to drop 14% in 2013 to just under 13% in 2014.

Steel production still downwards

Until September, steel production retreated 1.2% (recoil of 1.1% in 2013), the aluminum production retreated 24.4% (in continuous decline in the year), iron ore exports grew 7.0% (3.6% in the whole 2013), and pellets exports increased 2.6% in the year (reduction of 8.8% in 2013).

Hydro supply is declining

The hydraulic energy supply fell 10% over the same month of 2013, and increased 5.9% over the previous month. In the year to date, the rate is -2,8%, the third negative rate in the year (1.1% positive until June).

Oil Products consumption remains high

The apparent consumption of petroleum products increased by 10% in September over the same month of 2013, and increased 5.1% in the year date (4.5% until August and 5.5% until June). Diesel oil increased 6.5% in September and in the year date, the rate is 1.8%. Gasoline C grew by 12.3% in September and accumulates 11.3% in the year (2.7% in 2013). The total natural gas demand grew 6.8% in September and 7.9% in the year (8% until August).

The energy use in the Otto Cycle transport (gasoline, ethanol and natural gas) remains high, with a cumulative growth of 6.6% in the year. In 2013, the average increase was 6.1%, and 8.7% in 2012.

Electricity consumption remains weak

Electricity consumption (excluding captive self-producer) grew by 0.3% in September, after showing decrease of 0.2% in August. In the year, the rate was 2.5% (2.7% until August, 3.2% until July and 3.7% until June), just below the 3.5% rate, verified in the entire 2013. In September, residential consumption grew 2.4%, and commercial sector, 5.9%. Industrial consumption reduced at an expressive rate of 4.5% in September and accumulates -3% in the year. The reduction of 24.4% in the annual aluminum production explains part of the low industrial performance.

Biodiesel production in high

Biodiesel production grew up 20.9% in September and 11.7% in the year date. In 2013 the rate was 7.4%.

Electricity tariffs for high

The national average residential electricity tariff accumulates a rise of 3.7% in the year to date. The commercial tariff accumulates 5.5% high, and the industrial, 7.6% high.

Basic Data

SPECIFICATION	OCTOBER						
	IN THE MONTH			ACCUMULATED IN THE YEAR			
	2014	2013	% 14/13	2014	2013	% 14/13	%2014
OIL							
PRODUCTION - with Shale Oil and NGL(10^3 b/d)	2,498	2,173	15.0	2,310	2,092	10.5	-
IMPORTS AVERAGE PRICE (US$/bbl FOB)	104	100	4.2	114	112	1.6	-
OIL PRODUCTS							
TOTAL CONSUMPTION (10^3 b/day)	3,009	2,866	5.0	2,801	2,665	5.1	**100.0**
hereof: DIESEL with biodiesel - (10^3 b/day)	1,214	1,161	4.5	1,065	1,043	2.1	36.1
hereof: GASOLINE C (10^3 b/day)	812	738	9.9	759	683	11.1	21.7
CONSUMER PRICE - DIESEL (R$/l)	2.50	2.33	7.2	2.50	2.31	8.1	-
CONSUMER PRICE - GASOLINE C (R$/l)	2.96	2.84	4.4	2.97	2.85	4.2	-
CONSUMER PRICE - LPG (R$/13 kg)	44.4	42.3	5.0	42.9	41.0	4.8	-
NATURAL GAS							
PRODUCTION (10^6 m^3/day)	92.7	72.9	27.2	86.2	76.6	12.6	-
IMPORTS (10^6 m^3/day)	51.5	46.2	11.4	52.9	46.7	13.4	-
NON-UTILIZED AND REINJECTION (10^6 m^3/day)	20.6	15.3	34.8	19.6	13.6	44.4	-
AVAILABILITY FOR CONSUMPTION (10^6 m^3/day)	123.5	103.8	19.0	119.4	109.6	8.9	**100.0**
INDUSTRIAL CONSUMPTION (10^6 m^3/day)	43.2	42.1	2.5	43.1	41.1	4.8	36.1
POWER GENERATION CONS. (10^6 m^3/day)	48.4	34.1	41.9	46.9	39.6	18.4	39.3
INDUSTRIAL PRICE SP(*) (US$/MMBtu) - consumption range of 20,000 m^3/day	16.4	16.3	0.8	17.5	16.6	5.1	-
MOTOR PRICE SP (US$/MMBtu)	19.2	19.9	-3.5	20.1	20.5	-2.3	-
RESIDENTIAL PRICE SP (US$/MMBtu)	48.1	51.7	-6.9	50.4	52.1	-3.1	-
ELECTRICITY							
NATIONAL INTERCONNECTED SYSTEM	66,451	64,494	3.0	64,724	62,477	3.6	**100.0**
SOUTHEAST/MIDWEST POWER LOAD (MWavg)	39,586	38,685	2.3	38,687	37,742	2.5	59.8
SOUTH POWER LOAD (MWavg)	11,484	10,683	7.5	11,105	10,540	5.4	17.2
NORTHEAST POWER LOAD (MWavg)	10,256	9,939	3.2	9,861	9,648	2.2	15.2
NORTH POWER LOAD (MWavg)	5,124	5,187	-1.2	5,012	4,548	10.2	7.7
TOTAL CONSUMPTION (TWh) (**)	40.2	39.4	1.8	393.3	384.2	2.4	**100.0**
RESIDENTIAL	11.1	10.5	5.3	109.6	103.5	5.9	27.9
INDUSTRIAL	15.0	15.8	-4.7	148.6	153.4	-3.1	37.8
COMMERCIAL	7.6	7.1	7.5	74.1	68.7	7.7	18.8
OTHER SECTORS	6.4	6.1	6.2	61.1	58.5	4.5	15.5
PLANTS ENTRY INTO OPERATING (MW)	776	819	-5.2	5,920	5,361	10.4	-
RESIDENTIAL PRICE (R$/MWh)	454	382	19.0	412	392	5.2	-
COMMERCIAL PRICE (R$/MWh)	404	337	20.0	363	339	7.0	-
INDUSTRIAL PRICE (R$/MWh)	368	301	22.4	327	300	9.1	-
ETHANOL AND BIODIESEL							
BIODIESEL PRODUCTION (10^3 b/d)	63	56	11.6	56	50	11.7	-
MOTOR ETHANOL CONSUMPTION (10^3 b/d)	472	453	4.1	423	404	4.6	-
ETHANOL EXPORTS (10^3 b/d)	20	68	-70.0	24	54	-55.5	-
HYDRATED ETHANOL PRICE (R$/l)	2.00	1.91	4.4	2.08	1.97	5.4	-
COAL							
ELECTRICITY GENERATION (MWavg)	1,841	1,711	7.6	1,959	1,562	25.4	-
IMPORT PRICE (US$ FOB/t)	102.6	125.1	-18.0	107.8	135.5	-20.5	-
NUCLEAR ENERGY							
ELECTRICITY GENERATION - (GWh)	1,496	1,467	2.0	12,467	12,607	-1.1	-
INDUSTRIAL SECTORS							
STEEL PRODUCTION (10^3 t/day)	98	96	2.5	94	95	-0.8	-
ALUMINIUM PRODUCTION (10^3 t/day)	2.3	3.4	-32.4	2.7	3.6	-25.1	-
IRON ORE EXPORTS (10^3 t/day)	877	925	-5.2	794	753	5.4	-
PELLETS EXPORTS (10^3 t/day)	148	123	19.9	130	125	4.3	-
CEMENT PRODUCTION (10^3 t/day)	204	208	-1.8	195	193	1.0	-
PAPER PRODUCTION (10^3 t/day)	28.3	29.1	-2.7	28.7	28.6	0.4	-
PULP PRODUCTION (10^3 t/day)	47.3	41.8	13.0	44.5	40.9	8.7	-
SUGAR PRODUCTION (10^3 t/daY)	149	153	-2.6	103	103	-0.3	-
SUGAR EXPORTS (10^3 t/day)	88	85	4.2	65	73	-10.4	-

(*) SP is the acronym of the state of São Paulo.

(**) The traditional self-producers (consumers that do not use public grid) is not included.