MONTHLY ENERGY BULLETIN BRAZIL



MINISTRY OF MINES AND ENERGY - MME
SECRETARIAT OF ENERGY PLANNING AND DEVELOPMENT - SPE
DEPARTMENT OF INFORMATION AND STUDIES ON ENERGY - DIE

MAY 2021

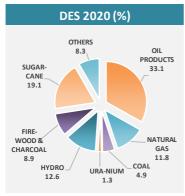
DOMESTIC ENERGY SUPPLY

Several indicators of May 2021 over May 2020 (2nd more affected month by the Covid-19 pandemic) show excellent recovery: high of 182% in sales of aviation kerosene, 37% in total natural gas demand, 22% in the light vehicles consumption, 19% in oil derivatives sales and 12% in electricity consumption. In industry, the steel production had an increase of 40% and cement sales rose 15%. In the

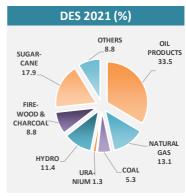
accumulated of the year over the same previous period aviation kerosene still shows a 15% decline.

For Domestic Energy Supply – DES¹, until May, an increase of 6.7% was estimated, but for the whole year of 2021 is estimated a high near 4%. With the current information, the indicator was estimated at 4.3% (4% in the previous edition).

INCREASE IN 2021 TOTAL ENERGY DEMAND IS ESTIMATED AT 4.3%

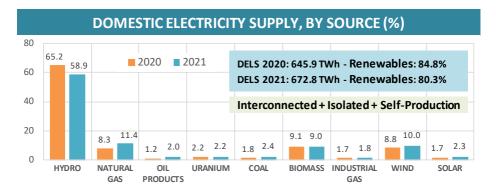


287.6 million toe - 48.4% renewables



299.9 million toe - 46.3% renewables

For the 2021's Domestic Electricity Supply (DELS)² an increase of 4 to 5% is expected. With the current information, the indicator was estimated at 4.2% (4.6% in the previous edition). The share of renewables should be above 80%.



HIGHLIGHTS IN MAY 2021

Oil production in recovery

Oil production increased by 5.6% in May 2021, on the same month of 2020, but still accumulated a 3.5% decrease in the year (-9.1% to February). The production of natural gas grew 17.7% in May, and accumulated up 5.1% in the year (-0.5% to February).

Mining and metallurgy in high

Steel production grew 40.4% over May 2020, and accumulated up 22% in the year (9.1% to February). Iron ore exports grew 25.4% in the month, accumulating an increase of 17.7% in the year (11.7% to February). Pellets exports show a 1.6% rise in the year's accumulated.

Hydraulic supply downward

The supply of hydraulic energy shows a decrease of 1.6% in the year's accumulated. The Itaipu's supply is negative at 28% in the year's accumulated.

Oil derivatives in recovery

The oil derivatives apparent consumption grew 18.8% in May (excluding ethanol and biodiesel), and already accumulated 7.5% in the year (-0.5% to February). The diesel consumption (included biodiesel) was high of 14.2% in the month (11.3% in the year) and the gasoline C consumption rose 23.2% in the month (7% in the year). The automotive ethanol consumption rose 19.6% in the month (5.5% in the year). Total gas demand accumulates 16.3% in the year, featuring a power generation expansion of 107% in the month and 46.1% in the year.

The Otto's cycle (gasoline, ethanol and natural gas) light vehicles energy consumption accumulates an increase of 5.7% in the year (12 months: -9.3% in 201, 4.5% in 2019, -1.2% in 2018, +1.7% in 2017, -1.1% in 2016 and +6.2% in 2014).

Electricity consumption rises

Electricity consumption - excluding self-producers - grew 11.8% over May 2020, and accumulated up 6.9% in the year (2.2% to February). Still in the year's accumulated, residential consumption rose 4.9%, industrial increased by 13.9% and commercial consumption already shows a high of 1.8% (-10.6% throughout the year 2020).

Biodiesel production rises

Biodiesel production grew 11.7% over the same month of 2020, and accumulates 17.1% in the year. The annual rate has been greater than 9% in the last four years.

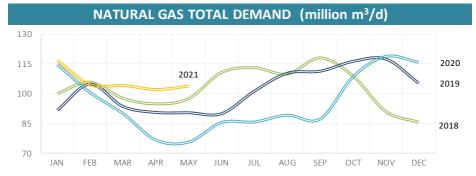
Pulp production is estimated at 6.8% increase in year (+ 43% of 2013 to 2020). Cement consumption accumulated an increase of 21.7% in the year (10% in twelve months of 2020).

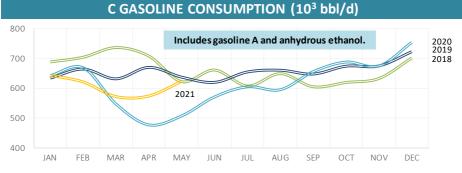
Electricity tariffs rise

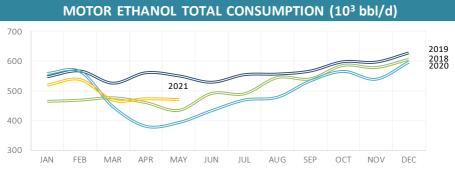
The national average tariff for residential electricity accumulates 9.1% high in the year (-3.1% in 2020, 8% in 2019 and 12.6% in 2018). Commercial tariff accumulates 9.1% high (-1.6% in 201, 7.4% in 2019 and 12.4% in 2018) and industrial, 8.6% high (-0.3% in 201, 5.7% in 2019 and 13.4% in 2018).

Name		MAY	,					
Note	CDECIFICATION	IN THE MONTH		ACCUMULATED IN THE YEAR				
RODUCTION - with Shale Oil and NGL(10° b/d) 3,020 2,860 5,6 2,965 3,071 -3.5 IMPORTS AVERAGE PRICE (USS/bblFOR) 61 42 43.8 60 60 0.7 7.5	SPECIFICATION	2021	2020	%21/20	2021	2020	%21/20	%
IMPORTS AVERAGE PRICE (US\$/bbl FOB) 61 42 43.8 60 60 60 7.7 100 101 PRODUCTS 101 102 102 103	OIL							
DIL PRODUCTS	PRODUCTION - with Shale Oil and NGL(10 ³ b/d)	3,020	2,860	5.6	2,965	3,071	-3.5	-
TOTAL CONSUMPTION (10³ b/day) hereof: DIESEL with biodiesel - (10³ b/day) hereof: DIESEL with biodiesel - (10³ b/day) hereof: GASOLINE C (10² b/day) hereof		61	42	43.8	60	60	0.7	-
hereof: DIESEL with biodiesel - (10 ¹⁰ b/day) 1,070 937 14.2 1,071 952 11.3 43.0 hereof: GASOLINE C (10 ¹⁰ b/day) 625 507 23.2 607 567 7.0 20.5 CONSUMER PRICE - DIESEL (RS/I) 4.47 3.04 47.2 4.11 3.48 18.2 - CONSUMER PRICE - LOSCHE (RS/I) 5.60 3.82 46.8 5.22 4.30 21.6 - CONSUMER PRICE - LPG (RS/I3 kg) 85.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 85.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 85.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 83.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 83.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 83.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 83.4 69.5 22.8 82.0 69.8 17.5 - CONSUMER PRICE - LPG (RS/I3 kg) 83.4 83.4 83.2 33.3 159.4 37.4 22.0 70.1 - RODUCTION (106 m/day) 34.5 13.3 159.4 37.4 22.0 70.1 - RODUCTION (106 m/day) 103.9 75.7 37.2 106.4 63.0 63.0 60.0 12.4 - RODUCTION (106 m/day) 32.5 15.7 107.0 34.6 23.7 46.1 32.6 10.0 1	OIL PRODUCTS							
Denecic GASQLINE C (10 ¹⁵ bylday)	TOTAL CONSUMPTION (10 ³ b/day)	2,377	2,001	18.8	2,366	2,200	7.5	100.0
CONSUMER PRICE - DIESEL (R\$/II)	hereof: DIESEL with biodiesel - (10 ³ b/day)	1,070	937	14.2	1,071	962	11.3	43.0
CONSUMER PRICE - LOG (RS/13 kg)								20.5
CONSUMER PRICE - LPG (R\$/13 kg)								-
PRODUCTION (106 m3/day) IMPORTS (106 m½day) JA4.5 13.3 159.4 37.4 22.0 70.1 - IMPORTS (106 m½day) JA5.5 13.3 159.4 37.4 22.0 70.1 - IMPORTS (106 m½day) JA5.5 13.3 159.4 37.4 22.0 70.1 - IMPORTS (106 m½day) JA5.5 13.3 159.4 37.4 22.0 70.1 - IMPORTS (106 m½day) JA5.5 13.3 159.4 37.4 22.0 70.1 - IMPORTS (106 m½day) JA5.5 13.3 159.4 37.4 22.0 70.1 12.4 16.3 100.0 INDUSTRIAL FOR CONSUMPTION (106 m½day) JA5.5 15.7 107.0 34.6 23.7 46.1 32.6 INDUSTRIAL PRICE SP(*) (1055/MMBtu) consumption range of 20,000 m½day MOTOR PRICE SP(*) (1055/MMBtu) - consumption range of 20,000 m½day MOTOR PRICE SP (USS/MMBtu) JA6.6 31.2 -2.0 30.6 36.9 -16.9 - INDUSTRIAL PRICE SP (USS/MMBtu) JA6.6 31.2 -2.0 30.6 36.9 -16.9 - INDUSTRIAL PRICE SP (USS/MMBtu) JA6.6 31.2 -2.0 30.6 36.9 -16.9 - INDUSTRIAL PRICE SP (USS/MMBtu) JA6.6 31.2 -2.0 30.6 36.9 -16.9 - INDUSTRIAL PRICE SP (USS/MMBtu) JA6.7 13.0 14.1 - JA6.9 12.8 16.8 -22.7 - JA6.1 22.6 100.0 36.9 36.9 -16.9 - JA6.1 22.6 100.0 36.9 36.9 36.9 -16.9 - JA6.1 22.6 100.0 36.9 36.9 36.9 -16.9 - JA6.1 22.6 100.0 36.9 36.9 36.9 36.9 -16.9 - JA6.1 22.6 100.0 36.9 36.9 36.9 36.9 36.9 36.9 -16.9 36.9 36.9 36.9 36.9 36.9 36.9 36.9 3								-
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IMPORTS (106 m²/day)	NATURAL GAS							
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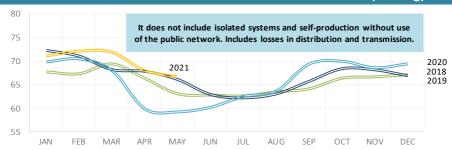


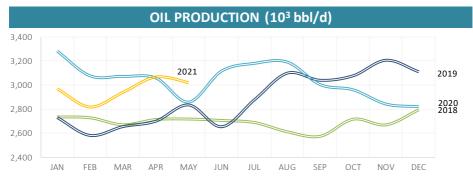


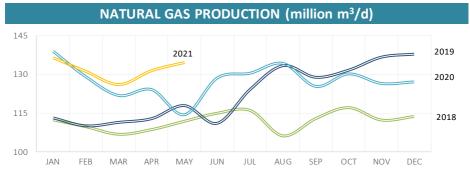


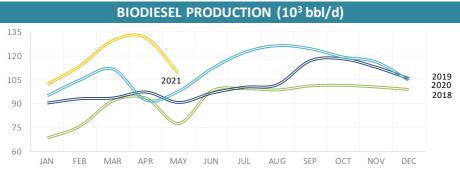


NATIONAL INTERCONNECTED SYSTEM POWER LOAD (GWavg)

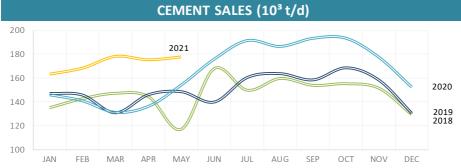


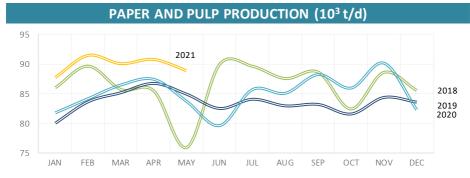


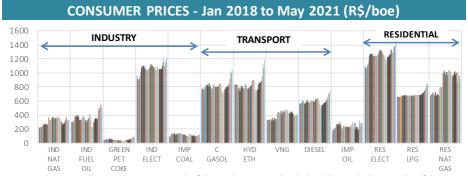












Note: For a better visualization, the minimum scale of the graphs was raised to the level close to the lowest value of the curves.

METHODOLOGICAL NOTES

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.

¹ Domestic Energy Supply (DES), or Brazilian Energy Demand, represents the energy necessary to move the economy of a country or region over a period of time. Includes final energy consumption in the residential sector and in the other economic sectors, includes losses in transmission and distribution, losses on power transformation and the own consumption of the energy sector.

² 2020 data from DES and DELS reflect the results of the 2021 Brazilian Energy Balance cycle, concluded by the Energy Research Company, with a partnership between SPE/MME and energy sector companies and agencies.

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