



Energy Auctions

Transmission Auctions

spe@mme.gov.br

Ministério de
Minas e Energia

Energy Generation Auctions 2017

AUCTION A-4 OF 2017

Date: 18 December 2017

Sources: Hydroelectricity (UHE < 50MW, PCH e CGH), Solar PH, Wind Energy, Biomass

Contract Term: 20 years (solar, wind e biomass); 30 years (hydro)

Registered Supply: 42,300 MW

Ceiling Price for Greenfield: R\$ 281.00/MWh (Hydro), R\$ 276.00/MWh (Wind Energy), R\$ 329.00/MWh (Solar Energy), R\$ 329.00/MWh (Thermoelectricity Biomass)

AUCTION A-6 OF 2017

Date: 20 December 2017

Sources: Hydroelectricity (UHE < 50MW, PCH), Wind, Biomass, Coal and Natural Gas

Contract Term: 20 years (wind); 25 years (biomass, coal, gas); 30 years (hydro)

Registered Offer: 44,581 MW

Ceiling Price for Greenfield: R\$ 281.00/MWh (Hydro), R\$ 276.00/MWh (Wind Energy), R\$ 329.00/MWh (Solar Energy), R\$ 329.00/MWh (Thermoelectricity Biomass and Coal), R\$ 319.00/MWh (Thermoelectricity Natural Gas).

AUCTION A-4 OF 2017 (18, December)

- The A-4 auction hired 674.5 MW of capacity and 228.7 average MW of physical guarantee.
- The solar source dominated the auction. The average price of the auction was R \$ 144.51 / MW. 25 new generation projects were made possible, with an expected start-up in January 2021 and an estimated investment of R \$ 4.2 billion.
- At the buying end, there were distributors CEA (Amapá), CEAL (Alagoas), Coelba (Bahia), Copel D (Paraná), EDP Espírito Santo, Elektro (São Paulo).
- The solar source enabled 20 projects, with the lowest price per plant quoted at R \$ 143 / MWh and the highest at R \$ 146 / MWh.

AUCTION A-6 OF 2017 (20, December)

- The A-6 energy auction contracted 2.93 gigawatts (GW) of average energy, at an average price of \$ 189.45 per megawatt-hour (MWh).
- 63 projects were contracted from hydro, hydro, biomass and gas sources. The biggest discount was for wind power contracting, which recorded an average price of R \$ 98.62 / MWh, discount of 64.3% in relation to the maximum established by the National Electric Energy Agency (Aneel), of R \$ 276 / MWh.
- 49 wind projects were hired, with a physical guarantee of 776.6 average MW and a power of 1,386.9 MW. The projected investment is R \$ 8 billion.

Examples

Contracts Termination Auctions (Energy)

Exchange rate R\$ 3.26/US\$

Date: 28 august 2017

Source: Wind and Solar PH



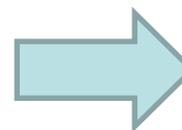
Contracts Terminated

Wind – 16 power plants – 307.7 MW

Solar Photovoltaic – 9 power plants – 249.7 MW

Total Power
557.4 MW

Value
R\$ 105.9 millions



25
Power
Plants

Examples

Non-Extended Hydroelectric Power Plants Auctions

Concession Auctions: Announcement ANEEL nº 001/2017
Resolution CNPE nº 12/2017

Date: 27 September 2017

Contract Signature: 10/11/2017

Bonus Payment: up to 30/11/2017

ACCOMPLISHED

- Concession auctioned
 - São Simão: 1,710.0 MW
 - Jaguara: 424.0 MW
 - Miranda: 408.0 MW
 - Volta Grande: 380.0 MW
- Total Bonus:
 - R\$ 12.13 billions (discount of 9.7%)
- Allocation
 - 70% ACR / 30% ACL

4 Power
Plants
1,972.5
MW Avg

Exchange rate R\$ 3,26/US\$)

Energy Generation Auctions 2018



Expected:

Auction A-4: april/2018

Auction A-6: 2nd semester/2018

Alternative Energy Auction (LFA): To define

Roraima Supply Auction: march/2018



7



Transmission Auctions in 2017

Auction ANEEL 005/2016

Date: 24 April 2017



- Predicted Extension: 7,380 km**
Hired Extension: 7,056 km (94.5% do total)
- Transformation Capacity Predicted: 13,170 MVA**
Transformation Capacity Hired: 13,170 MVA
- Predicted Investment: R\$ 13.1 billions**
Investment accomplished: R\$ 12.7 billions (97% do total)



Transmission Auctions 2017

Auction ANEEL 002/2017

Date: 15 December 2017



- **Extension Predicted:** 4,919 km
- **Transformation Capacity Predicted:** 10,416 MVA
- **Expected Investment:** R\$ 8.7 billions



9

Transmission Auctions 2018



Predicted: 2 auctions

1º Auction: 1º semester/2018

- Predicted Extension: 5,750 km**
- Transformation Capacity Predicted: 19,000 MVA**
- Expected Investment: R\$ 11 billions**



2º Auction: 2º semester/2018

Expected (Studies in progress)

