

Brazil / ABiogas

Brazilian Biogas Association

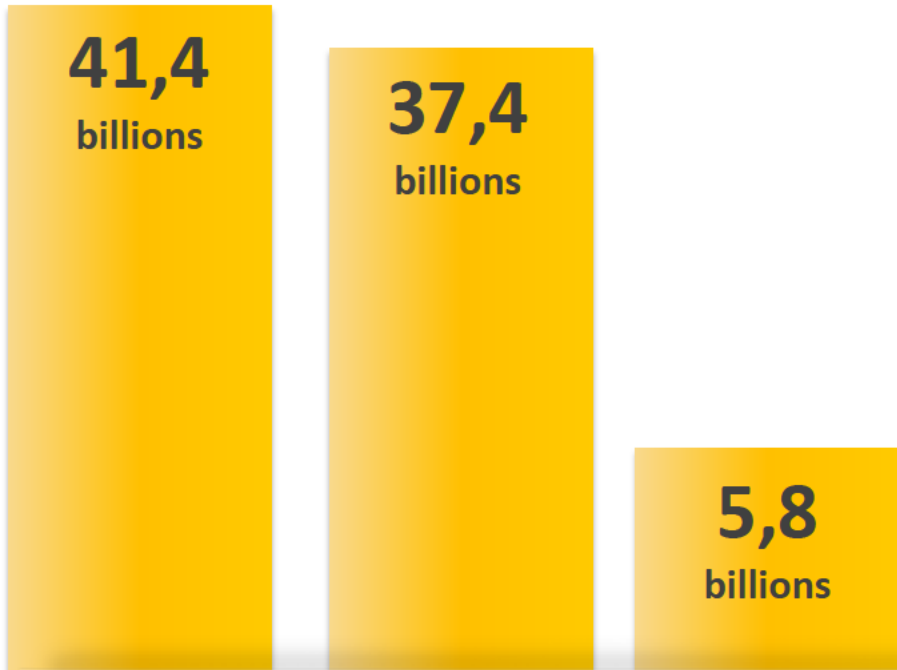
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GMI Biogas Subcommittee Meeting 28 October 2019



BRAZILIAN BIOGAS POTENTIAL

BRAZILIAN BIOGAS POTENTIAL, BY SOURCE (Nm³/year)



Sugarcane

Agribusiness

Sanitation



Installed Power
23.05 GW
CF: 90%



BIOGAS
39,6% of the demand (181,707 GWh)



ELECTRIC POWER
472.242 GWh

Biomethane
12.5 million m³/day



BIOMETHANE
70% of the demand (45.5 B/year)

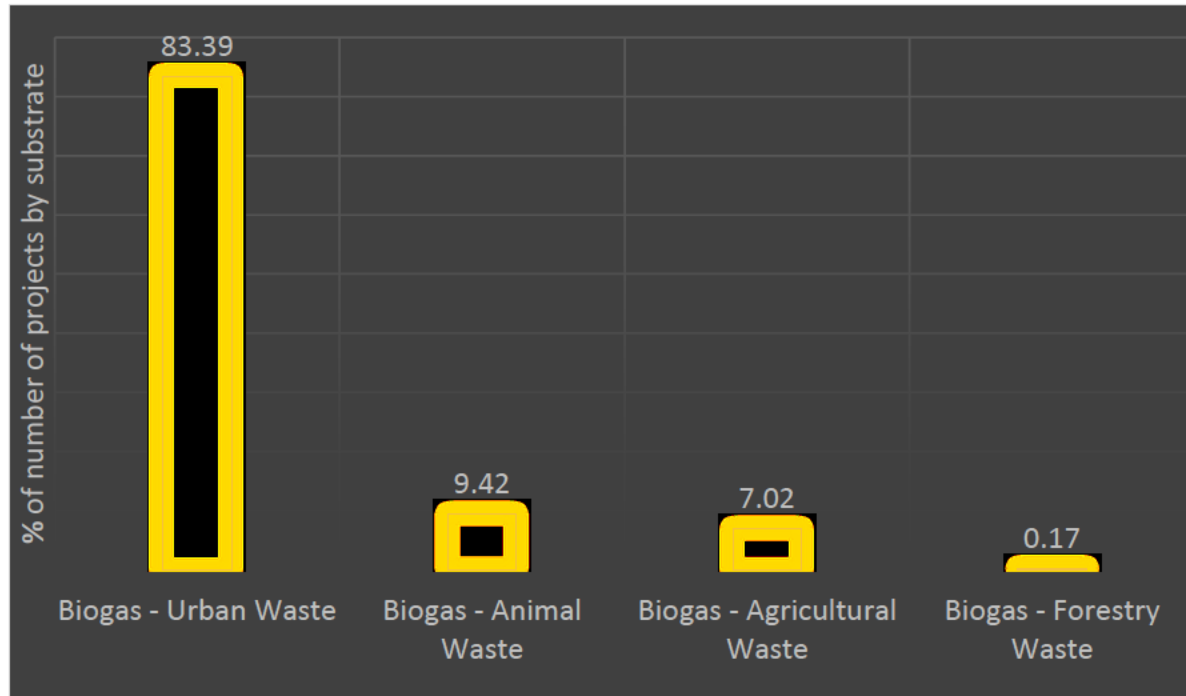


DIESEL
60 billion liters

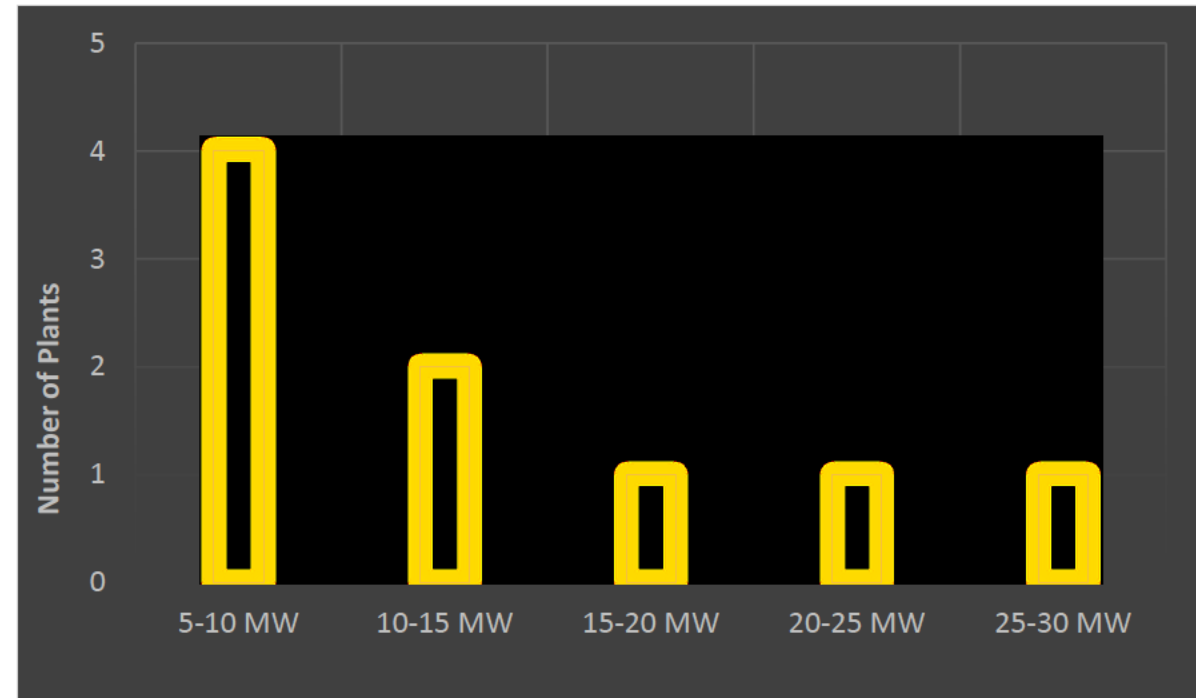


THE BRAZILIAN MARKET: WHERE WE AT?

Most of our installed biogas power comes from landfills...



...but most of our projects are at a small scale (between 5 and 10 MW)



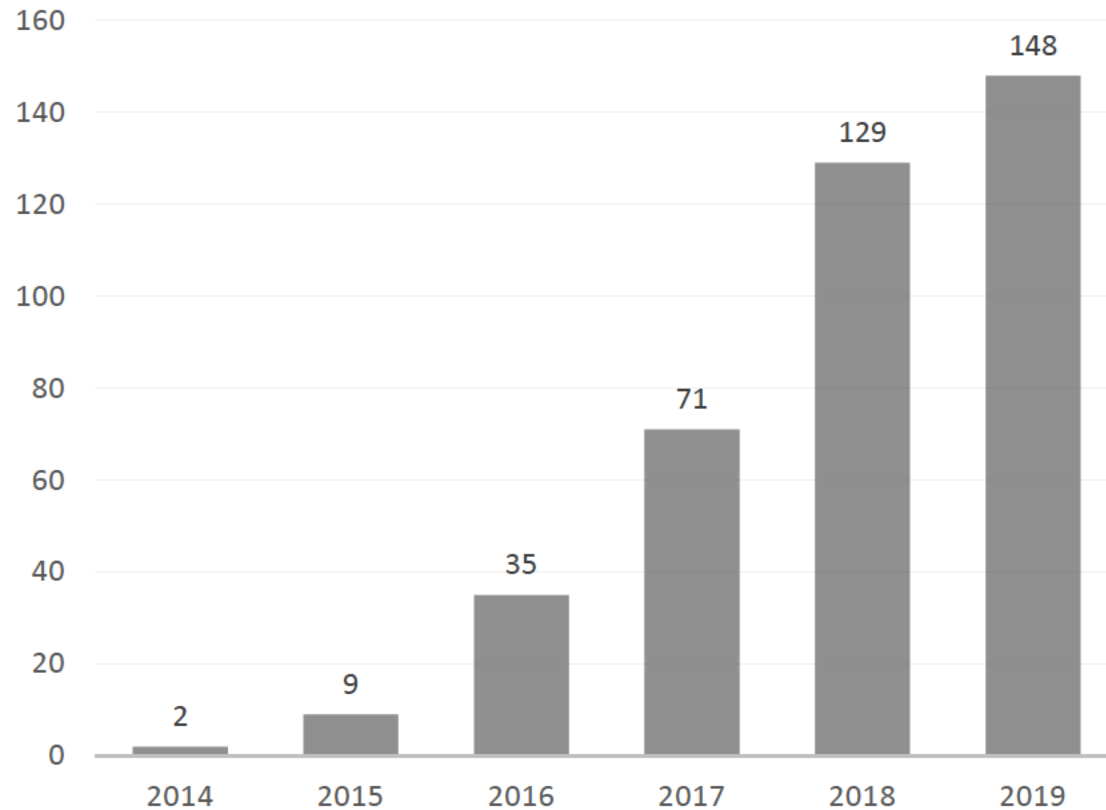
Source: Brazilian Electric Energy Agency – ANEEL, Sep 2019

Small scale: agricultural waste and small producers

Large scale: landfills and sugarcane sector

THE BRAZILIAN MARKET: WHERE WE AT?

Biogas Plants per Year
Distributed Generation



Source: Brazilian Electric Energy Agency – ANEEL, Sep 2019

- Distributed energy resources next to cargo:
 - 148 plants
- Remote Self-Consumption:
 - 26 generators
 - 426 consumer units involved
- Shared Generation:
 - 4 generators
 - 95 consumer units involved

THE BRAZILIAN MARKET: WHERE WE'RE GOING?

■ THE “NEW GAS MARKET”

- Federal program launched in 2019
- Expand investments in natural gas processing, transportation and distribution infrastructure, which can be an opening for biogas.
- Increase thermal energy generation
- Resume the competitiveness of Brazilian industry with gas accessibility

■ RENOVABIO – National Biofuels Policy

- A policy that encourages decarbonization with a focus on fuels.
- Individual decarbonization targets for distributors
- Certification of biofuels demonstrating the reduction of GHGs
- Trade of biofuel decarbonization credits

WHAT IS ABiogas?

- The Brazilian Biogas Association is a non-profit organization
 - Political articulation for new legislation that propels the biogas in the country
 - Promotion of a business cluster for the biogas sector
 - Disseminates biogas market information
- 64 associates, from equipment suppliers to law firms
- 2019 actions:
 - Formulation of legal frameworks for biogas at a federal level
 - Participation in the country energy planning formulated by the Brazilian Ministry of Mines and Energy
 - Contribution to price formulation for biomethane in Brazilian states