ABiogás

Associação Brasileira do Biogás

ASSOCIATED COMPANIES

ABiogás

CHANGING THE WORLD **THROUGH BIOGAS**

Transparency | Responsiveness | Engagement | Diversity | Independency

Mission

To promote sustainable energy valorization of waste, developing the biogas market

Vision

To be a reference in Biogas to Brazil by being a protagonist in the development of the value chain of the sector

ABIOGAS WORK IN THE **BIOGAS REGULATION**

DEC 2012
State Policy on Renewable Natural Gas - RJ

APR 2013
Change of the Tax Code in Minas Gerais

JUL 2013
ICMS Agreement No. 112- SP / MS

JAN 2015
Regulation of biomethane as vehicle fuel

NOV 2015
Amendment of 482/2012 – Nacional Electric Energy Agency

APR 2016
First closed deal with biogas in an electric energy auction

JUL 2017
Regulation of biomethane as vehicle fuel from landfills and sewage treatment plants

AUG 2017
Biogas appears on PDE2027 (EPE) for the first time

DEC 2017
Approval of Law 13575 / 2017 - the RenovaBio Program

FEB 2018
Approval at CEPE of the minimum mandatory biomethane in SP

MAY 2018
Legal Framework of Biogas in Paraná (PR-Biogas)

JUN 2018
Legal Framework of Biogas in Santa Catarina (SC-Biogas)

SEP 2018
Biogas appears on the PNE2050 (EPE) for the first time

BIOGAS PLANTS

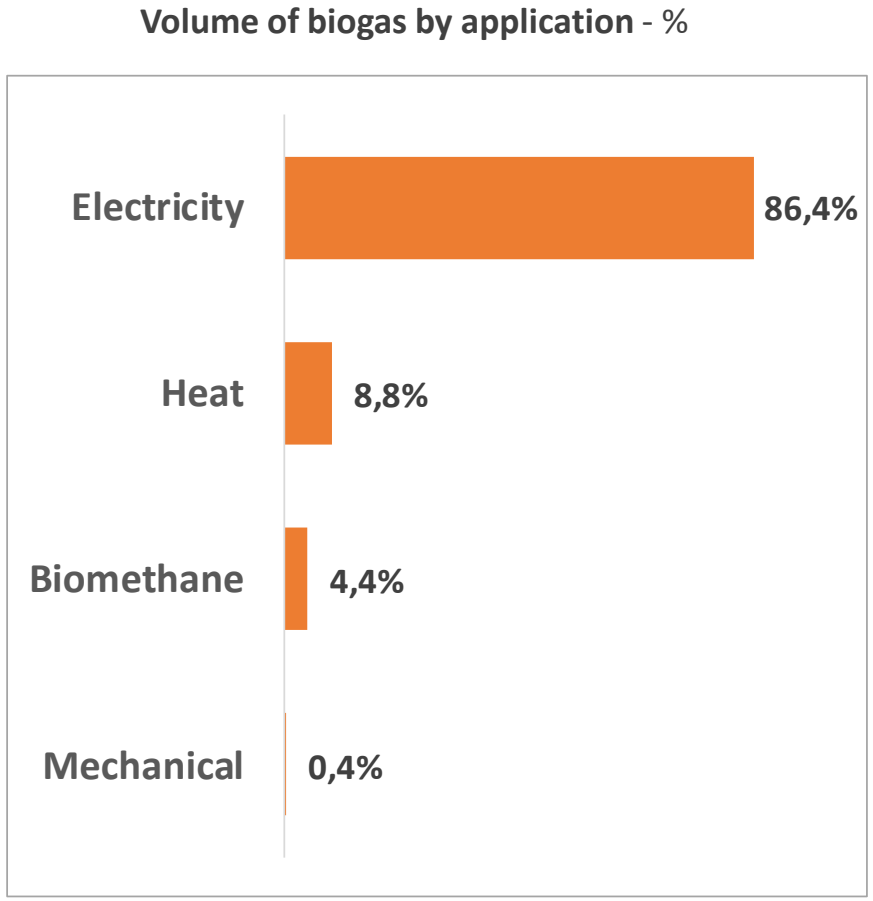
APPLICATION, SUBSTRACTS AND BIOGAS PRODUCTION

More than 500 BIOGAS PLANTS in 2019

Main application: **ELECTRICITY**

Main substracts: **MUNICIPAL SOLID WASTE and SEWAGE**

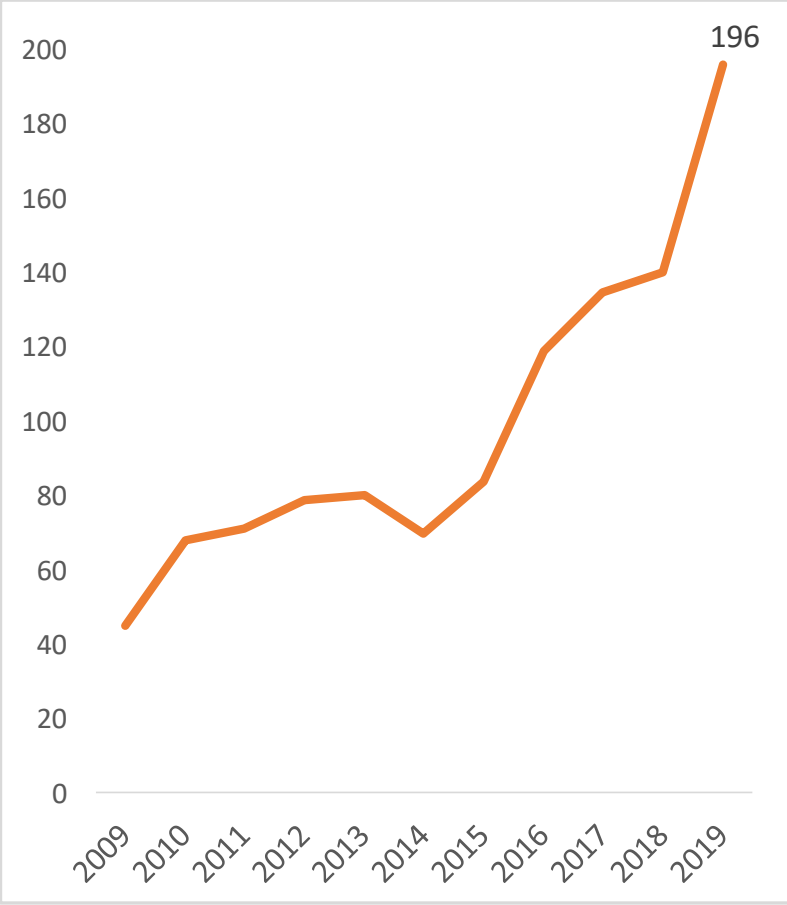
Biogas production: **≈ 4,8 MILLION Nm³/day or 1,7 BILLION Nm³/year**



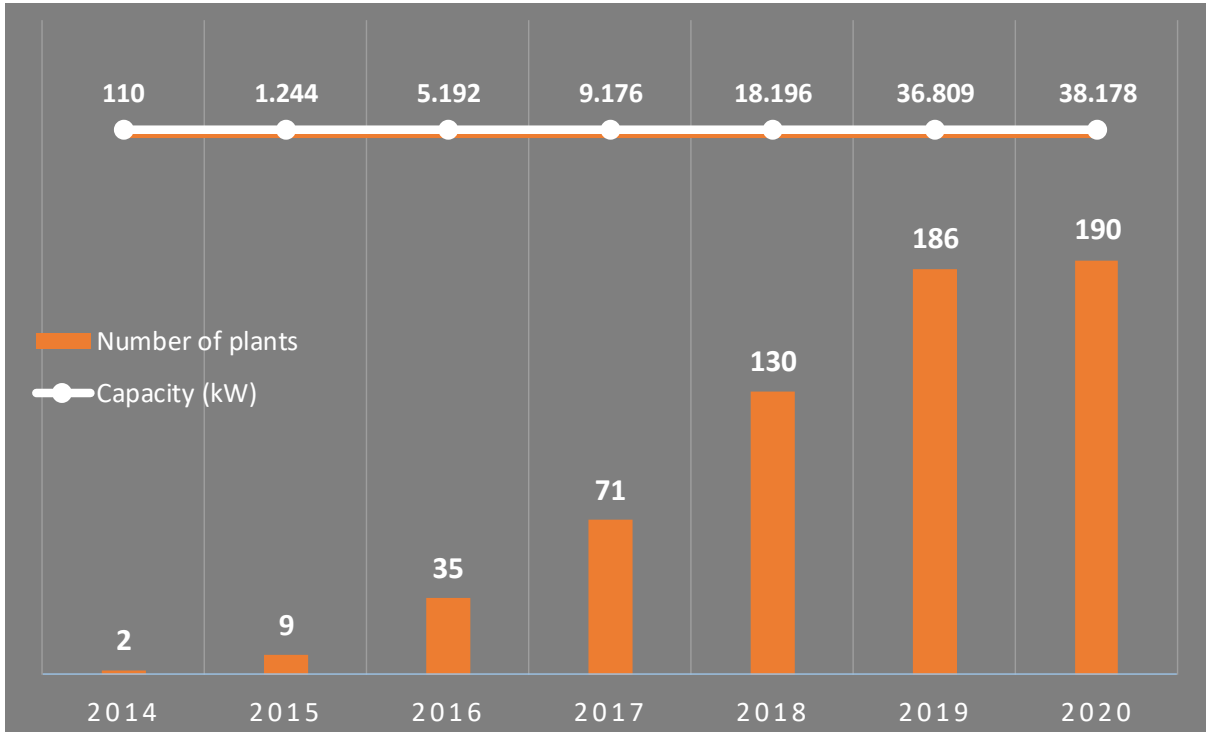
BIOGAS IN POWER GENERATION

ELECTRICITY PRODUCTION

Total Installed Capacity - Grid (MW)



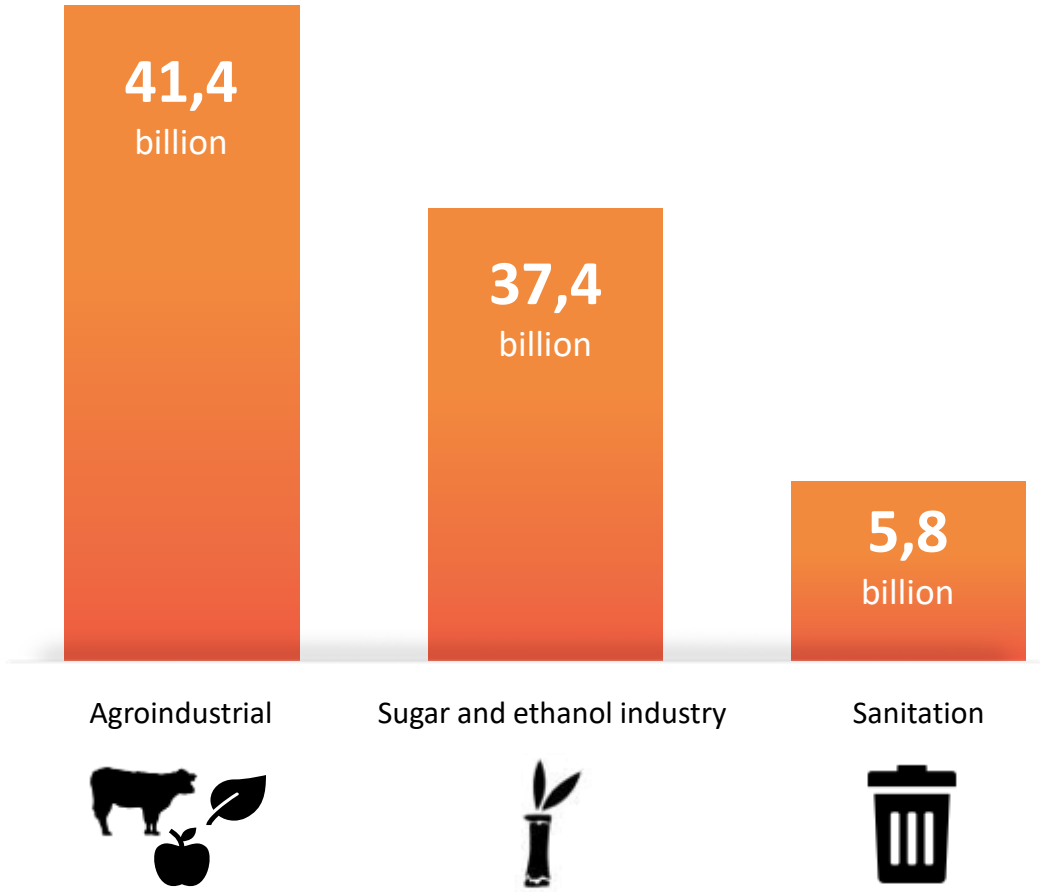
Number of biogas plants and Installed Capacity – Micro and Mini Distributed Generation



Source: ANEEL – April, 2020

BRAZIL: A DEVELOPING POWER

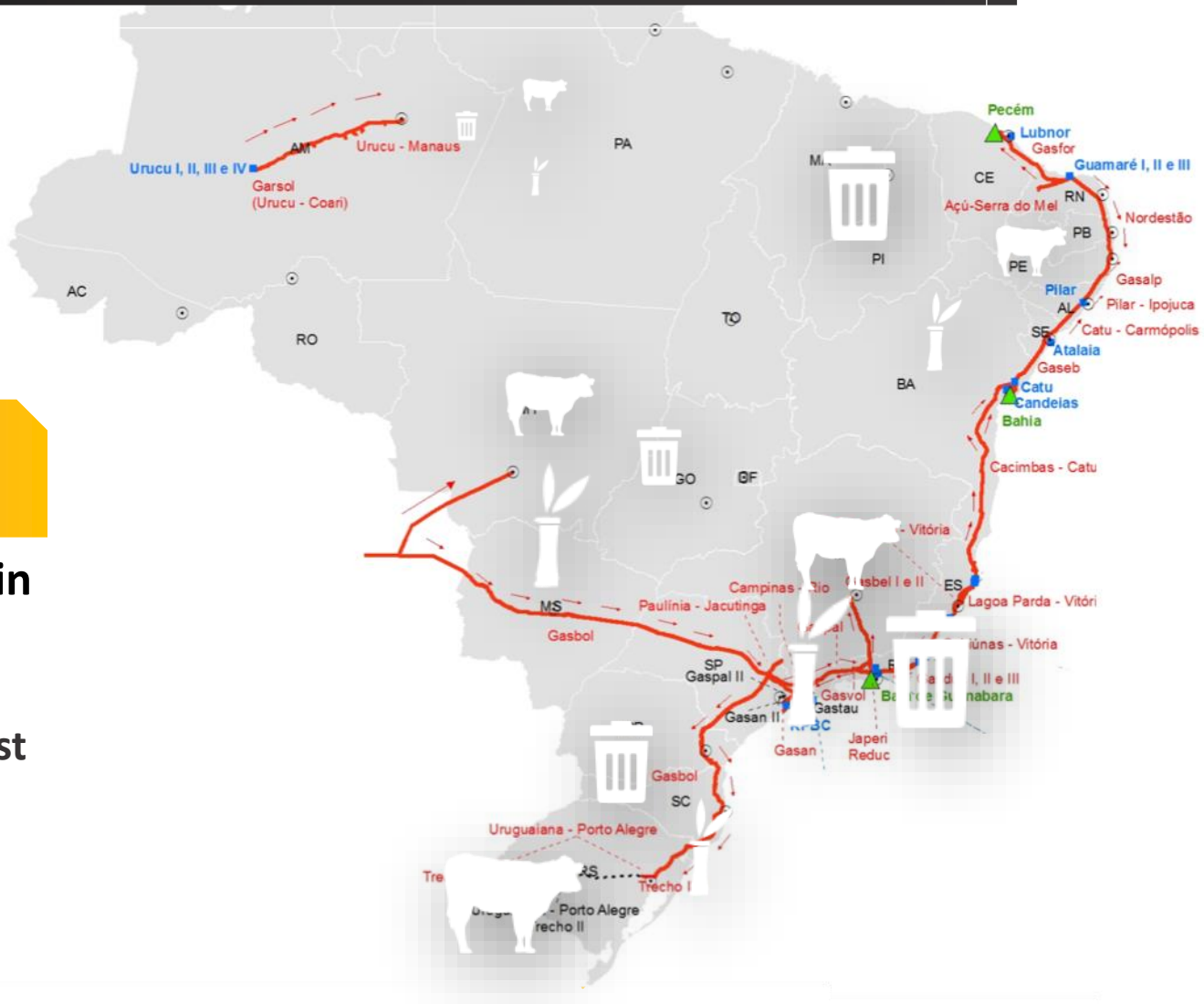
BRAZILIAN BIOGAS POTENTIAL, BY SOURCE (Nm³/year)



PRODUCTION CHAIN

METHANE INTERIORIZATION

Biogas is prepared to take advantage of the **regional raw materials distribution found in Brazil.**



Sanitation

51% Southeast

22% Northeast

11% South

8% Midwest

6% North

Sugarcane

66% Southeast

19% Midwest

6% South

5% Northeast

1% North

Animal Protein

43% South

20% Southeast

15% Midwest

13% Northeast

8% North

BIOGAS: WHAT'S GOING ON IN BRAZIL

ABiogás

THE "NEW GAS MARKET"

- Improve the use of gas – especially from the presalt
- Increase gas powered thermal energy generation
- Increase competitiveness of Brazilian industry with gas accessibility
- Expand investment in natural gas processing, transportation and distribution infrastructure – pathway for biogas.

RENOVABIO

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

ABiogás

A **SUSTAINABLE** REALITY

SUCCESS STORIES

BONFIM PLANT - SP

Electricity: 138.000 MWh/year (under construction)

Biomethane: -

Substract: Sugar-ethanol industry

Initial investment: U$ 38,6 MM

Expansion: -

The Pioneer

- A join-venture between Raizen and Geo Energetica
- **The first comercial plant** to use vinasse and filter cake technology
- **96.000 MWh** to be commercialized

SUCCESS STORIES

GEO ENERGÉTICA - PR

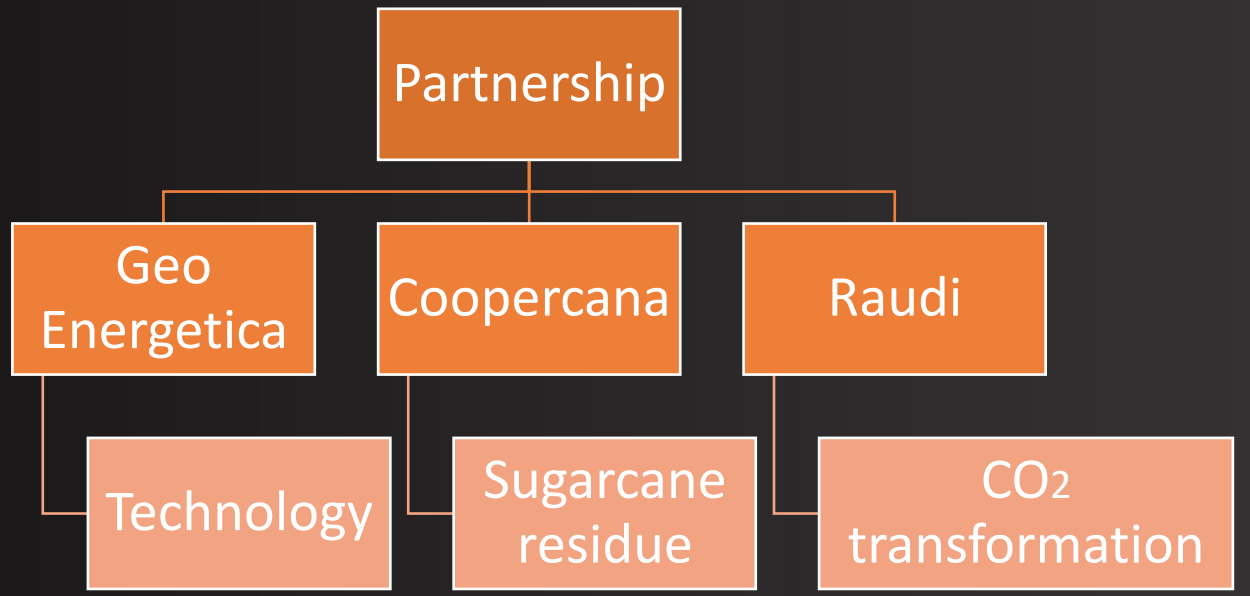
Electricity: 4 MW

Biomethane: -

Substract: Sugar-ethanol industry

Initial investment: U$ 10 MM

Expansion: 2019 – 10 MW



SUCCESS STORIES

ITAJAÍ- SC

Electricity: 1 MW

Biomethane: -

Substract: MSW

Investment: R$ 7,5 MM

Expansion: 2,6 MW

CAIEIRAS - SP

Electricity: 30 MW

Biomethane: -

Substract: MSW

Investment: R$ 110 MM

Expansion: 34,2 MW

SUCCESS STORIES

FRANCA - SP

Electricity: -

Biomethane: 2500 m³/day

Substract: Sanitary sewage

investment: R$ 110 MM

Expansion:: -

CSBIOENERGIA - PR

Electricity: 2,4 MW

Biomethane: 3.000 Nm³/day

Substract: Treatment plant sludge

investment: R$ 102 MM

Expansion: -

SUCCESS STORIES

FORTALEZA - CE

Electricity: -

Biomethane: 100.000 m³/day

Substract: Urban solid waste

investment: R$ 7,4 MM

Expansion:: 2020 – 150 mil m³/day

DOIS ARCOS - RJ

Electricity: -

Biomethane: 15.000 Nm³/day

Substract: Urban solid waste

investment: R$ 20 MM

Expansion: 2020 – 22.000 Nm³/day

SUCCESS STORIES

SUSTAINABLE CITY

Biomethane: 118 000 m³/dia (Project)

Substract: Sucroenergetic

investment: R$ 30 MM – GasBrasiliano

R$ 130 MM Cocal

Extension: 68 km pipeline: Narandiba - Pirapozinho

GasBrasiliano

energia responsável cocal

THANK YOU!

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