

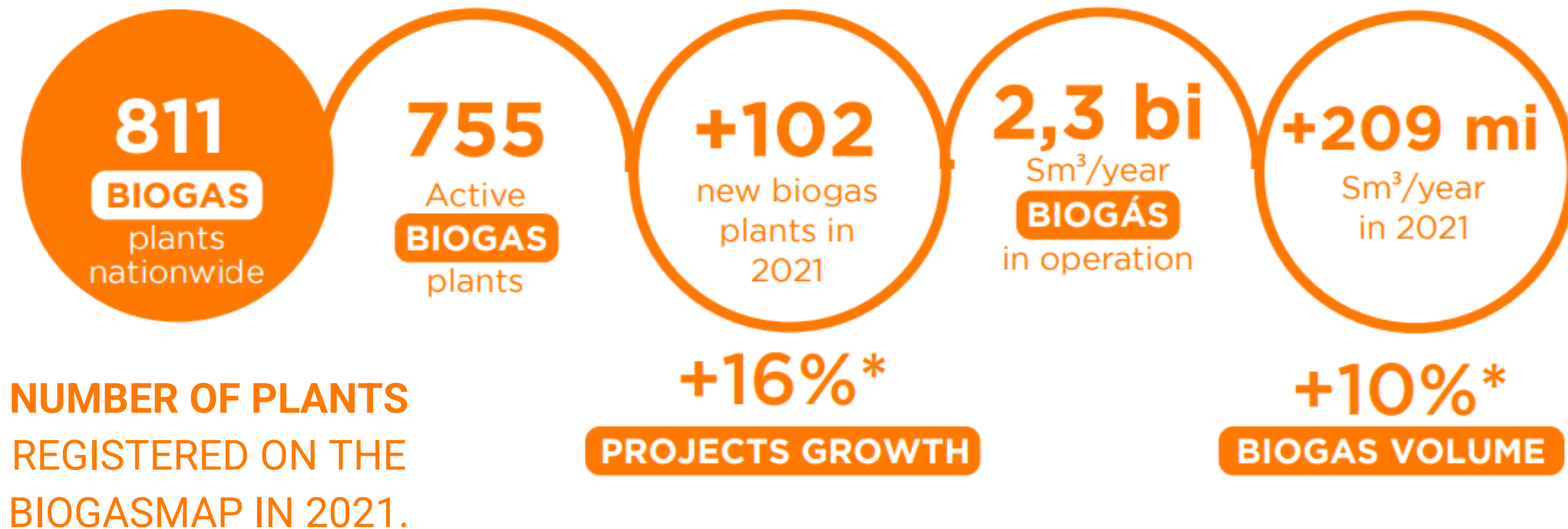
Brazilian Biogas Overview 2021

Felipe Souza Marques

Director of Technological Development - CIBiogás



OVERVIEW



*compared to figures reported in 2020

OVERVIEW



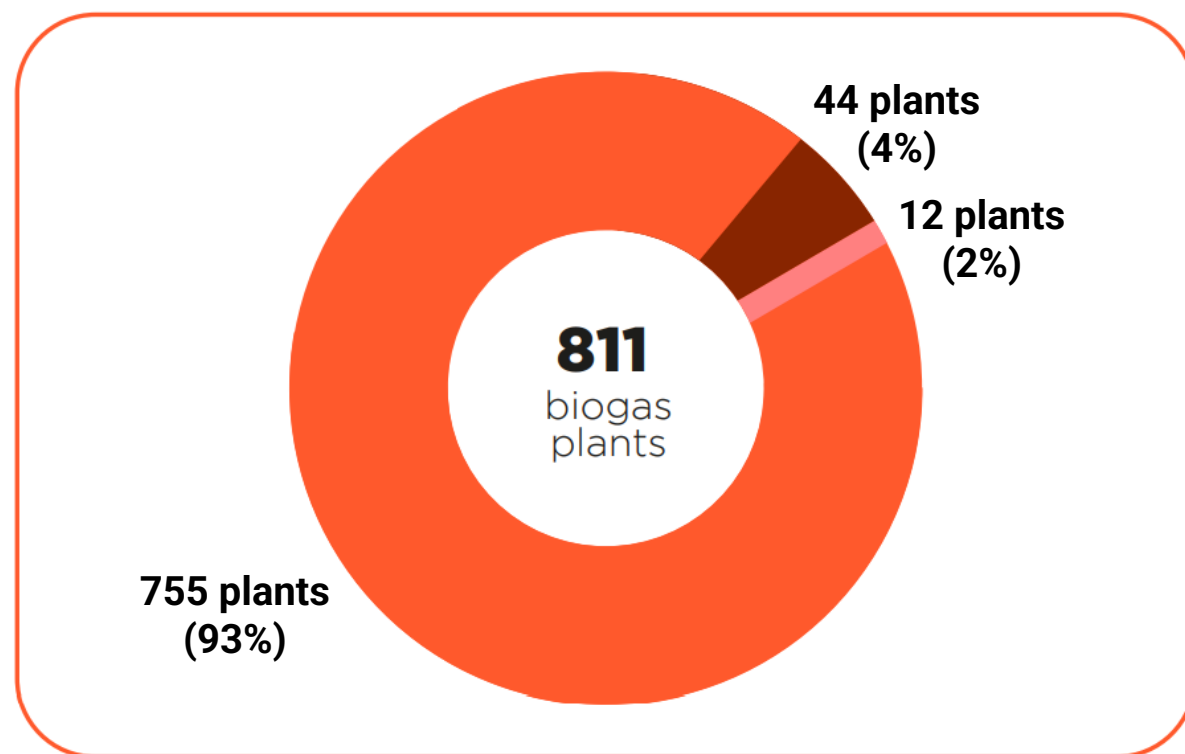
In operation



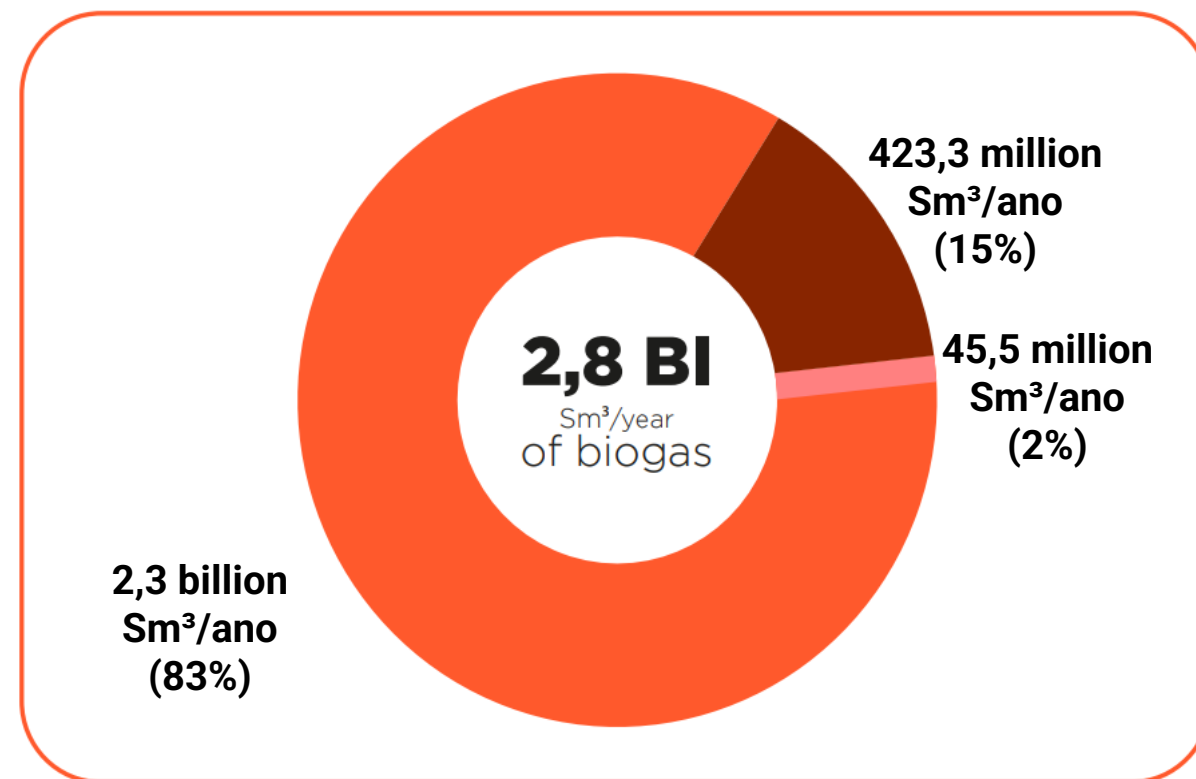
In construction



In renovation

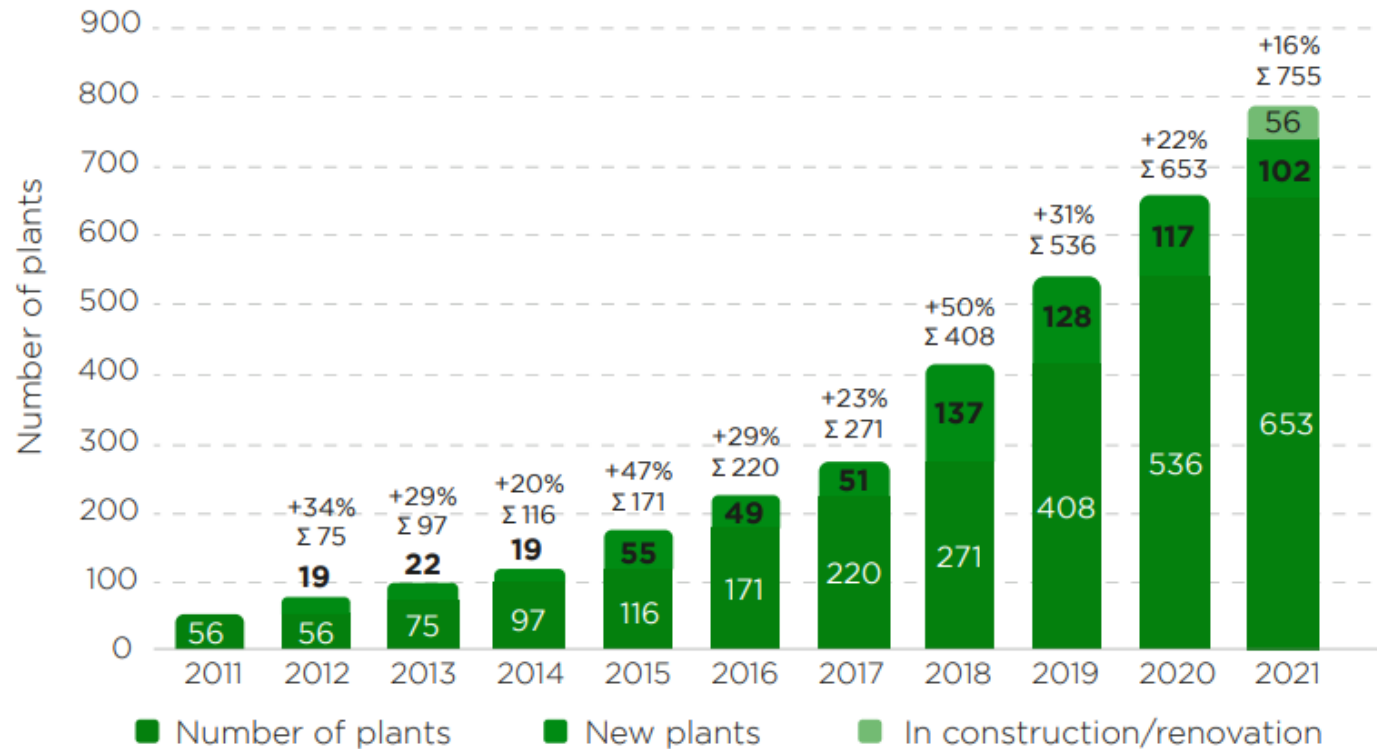


Percentage of **biogas plants** in operation, in construction and in renovation - 2021.



Percentage of **biogas production** in active, in construction and in renovation plants – 2021.

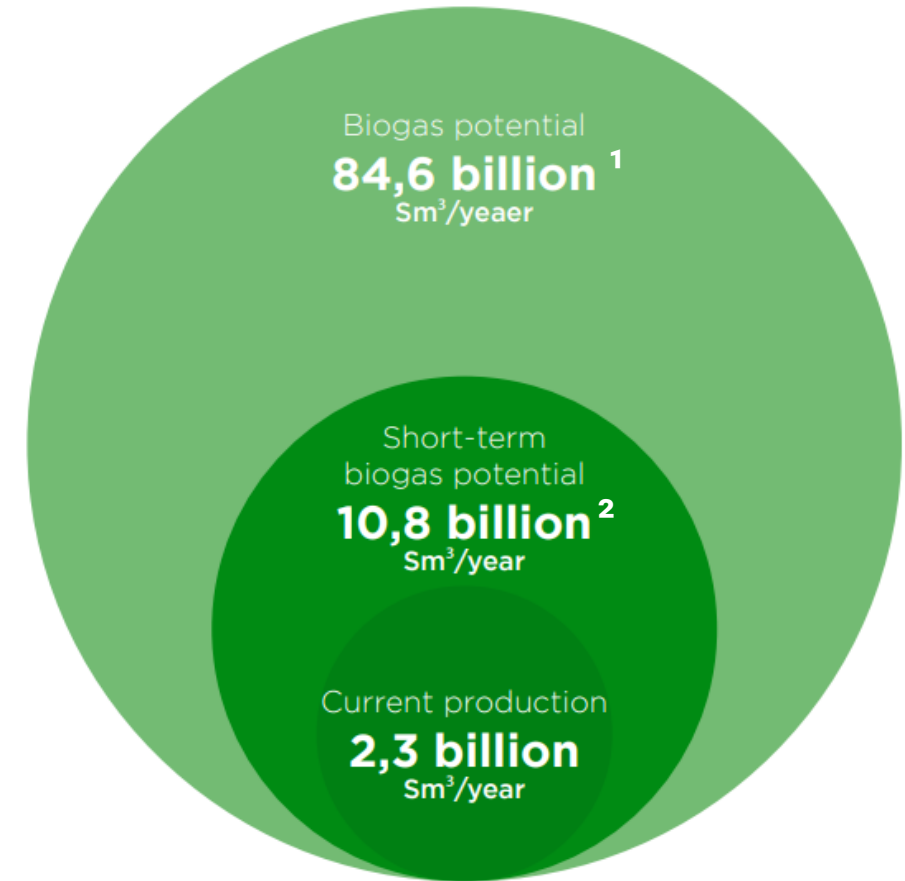
ANALYSIS OF BIOGAS GROWTH IN BRAZIL AND UNLOCKED POTENTIAL PRODUCTION



Increase of the number of **new biogas plants** in Brazil in the last decade.

¹ ABiogás, 2021.

² Instituto 17 - BEP, 2021.

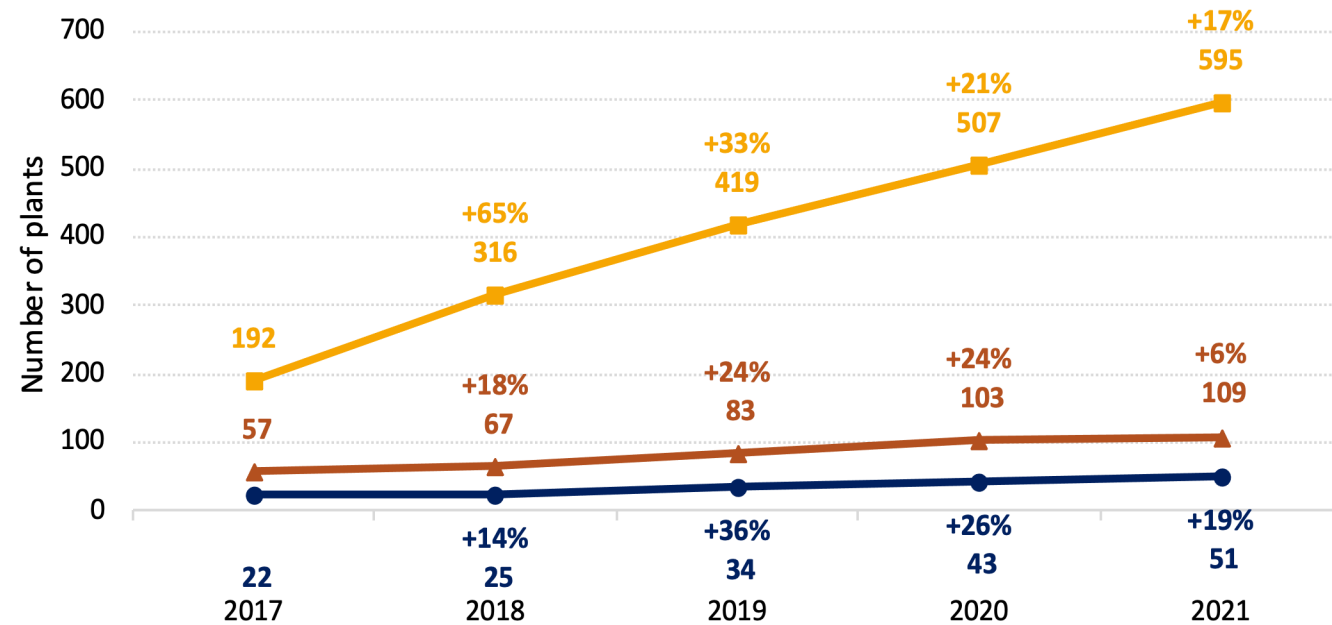


Relation between current production and the Brazilian biogas potential

21% short-term
3% long-term

BIOGAS PLANTS IN OPERATION: Size Range and Volume

Biogas Plants*



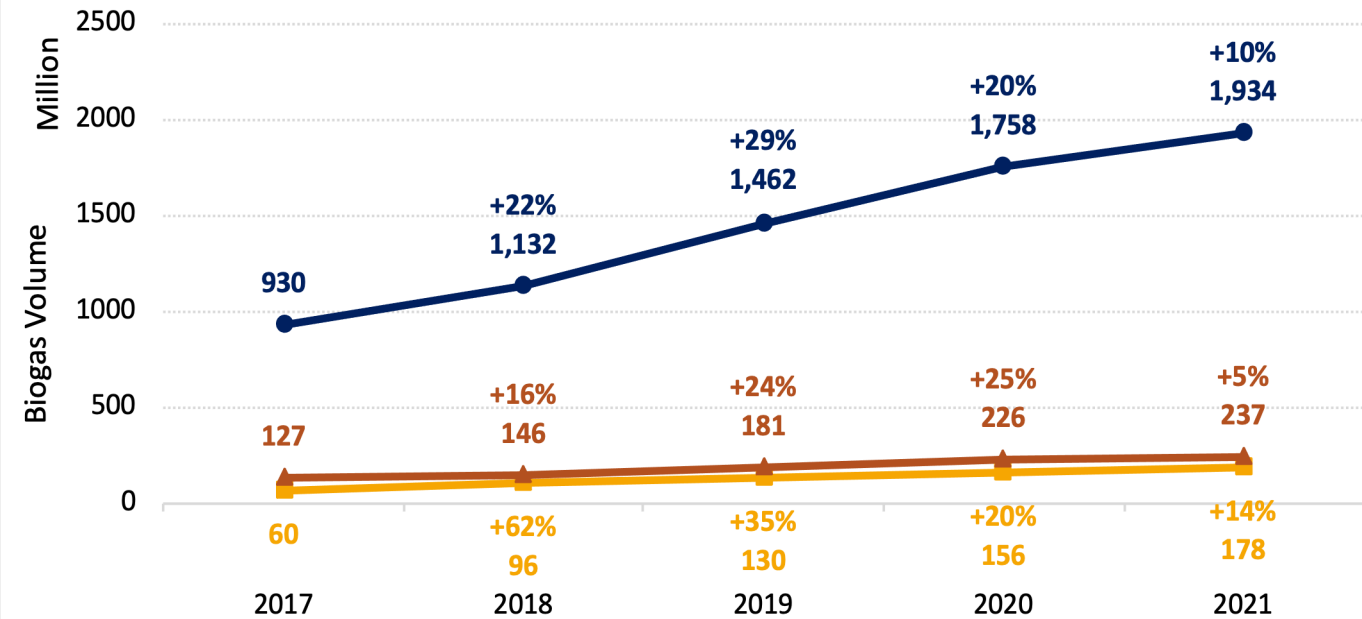
■ Small Size
 ▲ Medium Size
 ● Large size

1 million m³/year

5 million m³/year

* Biogas Plants: AD systems and landfills

Biogas Production



BIOGAS PLANTS IN OPERATION

Energy Application

ELECTRICITY

656
BIOGAS
plants

1,7 bi
Sm³/year
BIOGAS

372
MWe
Installed
capacity

THERMAL ENERGY

83
BIOGAS
plants

151 mi
Sm³/year
BIOGAS

651
Tcal/hour
Production
capacity of

BIOMETHANE

10
BIOMETHANE
plants

522 mi
Sm³/year
BIOGAS
processing
capacity

435
Sm³/day
BIOMETHANE
production
capacity

**Use the QR CODE below to
download or get access to:**

BRAZILIAN BIOGAS OVERVIEW 2021



www.cibiogas.org

INITIATIVES FOR BIOGAS DEVELOPMENT IN BRAZIL



Biogás
BRASIL

GEF Biogás Brasil



**Low Carbon
Business Action
in Brazil (LCBA)**



This project is funded by
the European Union



Brazil Energy Programme (BEP)

DEDICATED ORGANIZATIONS

ABiogás

CIBIOGÁS
ENERGIAS RENOVÁVEIS

BRAZIL IS TAKING ACTION

CNN BRASIL Ao Vivo • Eleições 2022 Política Nacional Business Internacional Saúde Tecnologia Esporte Entretenimento

Internacional

COP26: Brasil assina compromisso global pela redução de emissão de gás metano em 30%

Itamaraty Brazil  
@Itamaraty_EN

As part of the [#COP26](#) negotiations, Brazil will co-sponsor the Global Methane Pledge.  is part of the solution to the climate change challenges. [#BrazilInCOP26](#)

5:49 PM · Nov 1, 2021

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PROGRAMA NACIONAL METANO ZERO

MINISTÉRIO DO
MEIO AMBIENTE

Brasília 2022

Em reunião ministerial do comitê ambiental da OCDE, Governo Federal destaca recém-lançado Programa Metano Zero e planos para eólica offshore e hidrogênio verde

MINISTÉRIO DO
MEIO AMBIENTE

Governo Federal edita decreto que cria mercado regulado brasileiro de carbono

MINISTÉRIO DO
MEIO AMBIENTE

MMA assina acordo com cinco setores para reduzir emissão de carbono

MINISTÉRIO DO
MEIO AMBIENTE

INNOVATION



Brazilian researchers develop catalyzers to produce CO and H₂ from biogas.



Cooperation project produces SAF from Biogas in Southern Brazil

BIOGAS IS ON THE MOVE

**PDE 2031 ELEGE
BIOGÁS COMO
ROTA PARA
DESCARBONIZAR
TRANSPORTES**



**EPE Ten-Year Energy Expansion
Plan (2031) highlights biogas
as a route to decarbonize
transport sectors.**



18 May 2022

Gas distributors to help expand Brazil biogas supply

Brazilian biogas producers and piped gas distributors are joining efforts to find ways to develop more biomethane supply and overcome obstacles to agreements with local distributors. ... [read more](#)

26 maio 2022

Bahiagas launches open season for biomethane

Bahia state distribution company
Bahiagas has launched an open season
for biomethane projects.

**First Bioenergy plant
to treat swine manure
(340 m³/day) and carcasses
(2,9 ton/day) is under construction.**

**CENTRAL DE
BIOENERGIA A BIOGÁS
AVANÇA NAS OBRAS DE
IMPLEMENTAÇÃO**



BIOGAS



powered by **CIBIOGÁS**
ENERGIAS RENOVÁVEIS

Thank You!

Felipe Souza Marques

Technology Development Director - CIBiogás

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