

## 01 BRIEF DESCRIPTION OF THE PROJECT

Development of a regional bioenergy hub with 08 agro-industrial enterprises located in Luís Eduardo Magalhães, Barreiras, São Desidério and Correntina. Each plant will produce biomethane from agricultural waste from its main production (such as corn straw in ethanol production), with centralized acquisition of the molecule by Bahiagás. Part will be distributed via the local network in Luís Eduardo Magalhães and the surplus will be transported to Brumado, where Bahiagás has the Southwest Gas Pipeline.

## 02 JUSTIFICATION AND OPPORTUNITY

The western region of Bahia has one of the highest volumes of agricultural production and waste generation in the country. The project aims to transform this environmental liability into an energy asset, promoting decarbonization and generating value. It is in line with national policies such as Renovabio and Fuel for the Future. In addition, Bahiagás has already launched specific public calls for biomethane purchases, demonstrating its commitment to market viability.

## 03 INVESTMENT NEEDED

CAPEX estimates based on studies by EPE and CIBiogás:

ITEM	LARGEST PLANT	TOTAL (08 PLANTS + LOGISTICS)
Implementation of the biomethane plant	R\$ 45.000.000,00	R\$ 360.000.000,00
Logistics (compression + CNG trucks)	R\$ 17.500.000,00	R\$ 140.000.000,00
Local Network (Bahiagás)	-	<i>Bahiagás' responsibility</i>

## CONTACTS

More information about  
this and other projects:

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## 04 EXPECTED RETURN

Revenue table based on a price of R\$3.50/m<sup>3</sup>:

ITEM	LARGEST PLANT	TOTAL (08 PLANTS + LOGISTICS)
Biomethane production (Nm <sup>3</sup> /year)	36.000.000,00	176.400.000,00
Estimated revenue (R\$/year)	R\$ 126.000.000,00	R\$ 617.400.000,00
Estimated revenue (US\$/year)	US\$ 25.200.000,00	US\$ 123.480.000,00
Estimated IRR	19% p.a.	17% p.a.
Estimated payback	5 years	6 years

## 05 SOCIAL AND ENVIRONMENTAL IMPACT

By replacing the use of fossil fuels such as diesel with renewable biomethane, the project contributes directly to global decarbonization targets, avoiding the emission of approximately 350,000 tons of CO<sub>2</sub> equivalent per year. This reduction represents a concrete step towards mitigating climate change, while at the same time strengthening the energy resilience of the state of Bahia. Families in the west of Bahia will benefit directly from the implementation of the 08 production units and their logistics, which should generate around 400 direct jobs and 1,000 indirect jobs. By valorizing agricultural waste as an energy source, the project transforms environmental liabilities into economic assets, promoting income and quality of life in the region's rural and agro-industrial communities.

In addition, the project is fully aligned with the UN's Sustainable Development Goals (SDGs), contributing to: SDG 7: by expanding access to clean and affordable energy, SDG 8: by boosting economic growth and generating quality jobs, SDG 9: by fostering innovation and the development of green infrastructure, SDG 12: by promoting the efficient use of resources and the recovery of waste, SDG 13: by taking direct action against global climate change.