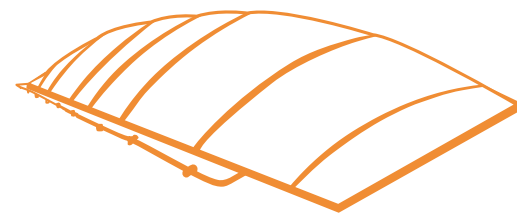




# Biogas BRAZIL



The Brazil GEF Biogas Project converges actions and investments from international organizations, private institutions, sectoral entities and the Federal Government to diversify energy generation in Brazil through biogas production.

The Project is led by the Ministry of Science, Technology and Innovations (MCTI), implemented by the United Nations Industrial Development Organization (UNIDO) and financed by the Global Environment Facility (GEF). The main goals of the Project are to reduce greenhouse gas emissions and to strengthen production chains and technological innovation in the biogas sector.



**Biogas**  
BRAZIL

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PARTNERS:



PROJECT STEERING COMMITTEE:



MINISTRY OF  
THE ENVIRONMENT



MINISTRY OF  
MINES AND ENERGY



MINISTRY OF  
AGRICULTURE, LIVESTOCK  
AND FOOD SUPPLY

UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



MINISTRY OF  
SCIENCE, TECHNOLOGY  
AND INNOVATIONS

GLOBAL ENVIRONMENT FACILITY  
INVESTING IN OUR PLANET



**PÁTRIA AMADA  
BRASIL**  
BRAZILIAN GOVERNMENT

## MAIN ACTIONS

The Project provides specialized support, strategic information, digital tools, public policy proposals, governance mobilization and innovative business models focused on the production of biogas and the transformation of organic waste from the agroindustry and urban environments into electricity, thermal energy and renewable fuel.



### Resources value

**Total of Direct Resources: US \$7,828,000**

- GEF US \$ 7,000,000;
- MCTI US \$ 700,000;
- UNIDO US \$ 128,000;

**Indirect Resources:  
US \$ 57,600,000**

## RESULTS

Digital platform with georeferenced data.

Technical and professional training.

Sectoral and environmental policies modernization.

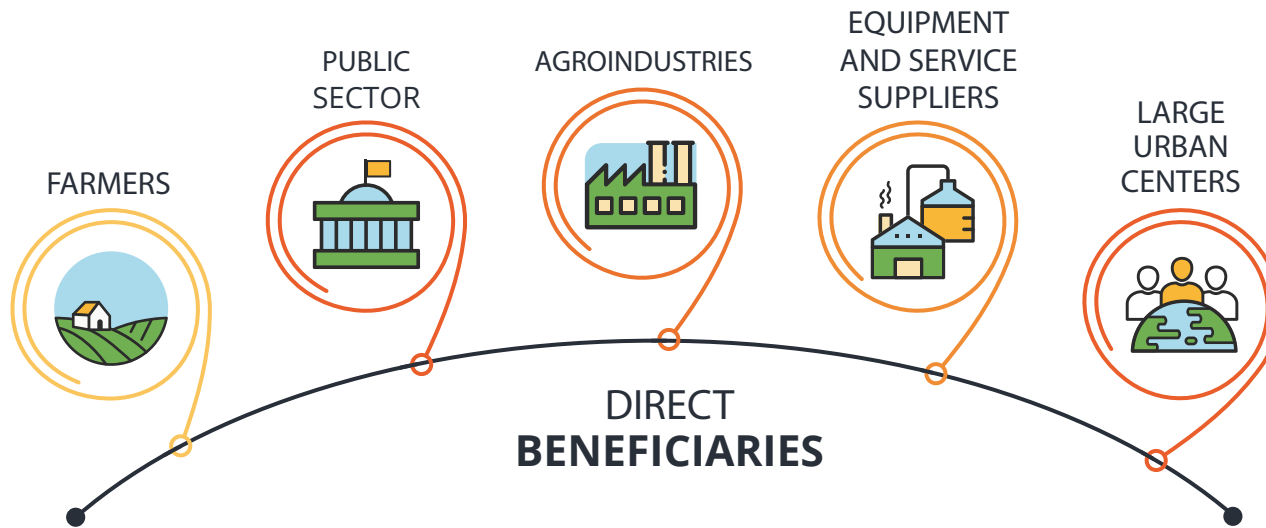
Sustainable management of organic residues.

Updated business models and technology packages.

Expansion and simplification of biogas investments.

More agroindustry competitiveness.

Reduction of greenhouse gas emissions.



## PROJECT COMPONENTS



Normative board and information



Value chain development.



Business model assessment and process optimization

Monitoring and control

## TROPICALIZATION PROGRAM

[gefbiogas.org.br/tropicalization](http://gefbiogas.org.br/tropicalization)

The Tropicalization Program implemented by the Brazil GEF Biogas Project acts to **encourage economic development and technological innovation** in the biogas value chain in Brazil. The goal is to integrate Brazilian and foreign companies to promote international cooperation and to identify opportunities that meet the demands of the local market.

**TROPICALIZATION:** The Program streamlines cooperation between Brazilian and foreign companies to bring to Brazil (to "tropicalize") foreign technological solutions or business models that solve one or more of the 06 (six) main challenges declared by the Brazilian biogas market. Each of these challenges is a priority line of our Tropicalization Program.

Proposals provided by participating companies must promote knowledge transfer and establish industrial partnerships. Initially, 08 (eight) proposals will be selected by the Program, each meeting at least one of the challenges listed by the local market.



# THE 6 CHALLENGES

1

COSTS REDUCTION AND/OR INTEGRATED SOLUTIONS FOR BIOMETHANE AND CO<sub>2</sub> PRODUCTION.



2

SOLUTIONS FOR DIGESTATE VALORIZATION



3

COSTS REDUCTION AND AUTOMATION PLUG AND PLAY IN PERIPHERAL EQUIPMENT



4

COST REDUCTION SOLUTIONS IN ELECTRICAL UTILIZATION AND LARGE SCALE POWER GENERATORS



5

SOLUTIONS FOR COMPRESSED BIOGAS STORAGE AND TRANSPORTATION



6

SOLUTIONS FOR BIOGAS PURIFICATION

