

PROJECT IMPLEMENTATION REPORT

Project ID:	9057
Project Name:	Biogas Applications for the Brazilian Agro-industry
Countr(ies):	Brazil
Implementing Agency:	UNIDO

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I. Overview

A. Description

Project name

Biogas Applications for the Brazilian Agro-industry

Country

Brazil

GEF ID

9057

Implementing Agency

UNIDO

Executing Entity

Ministry of Science, Technology,

Innovation and Communication

(MCTIC), Ministry of Mines and Energy

(MME), Itaipu Binacional and CI Biogas-

ER

Trust Fund

GET

Project Type

FSP

PIR Submission

9/9/2025

Fiscal Year , PIR Number

FY 2025 , 7th PIR

Objective

To reduce GHG emissions and dependence on fossil fuels through the promotion of biogas-based energy and mobility solutions within agro-industrial value chains in Southern Brazil and strengthening of national biogas technology supply chains.

B. Ratings and Disbursements

Implementation Progress

Moderately Satisfactory

Development Objective

Highly Satisfactory

Overall risk

Low Risk

Project Financing

7,665,000.00

Cumulative Disbursement

6,845,122.03

C. Key Dates

CEO Endorsement/Approval 5/5/2017	Agency Approval 5/15/2017
Implementation Start 8/10/2017	First Disbursement 8/28/2018
Expected MTR 6/30/2021	Actual MTR
Expected Completion 12/31/2025	Actual Completion

II. PROGRESS STATUS AND ISSUES

A. Progress: Information on progress and outcomes of project implementation activities

- Interministerial Coordination - The Biogas Interministerial Unit resumed with planning approved by MCTI and two meetings held in May and June, setting annual agendas and fostering collaboration across ministries.
- State-Level Governance Support - Territorial biogas groups were consolidated in PR, SC, and RS, partnering with SEBRAE and local associations. Work agendas were developed to sustain efforts beyond the project.
- Foresight 2.0 Book and Results Publication - Final layout and content review completed. The publication's release is planned for September 2025, showcasing outcomes and methodologies.
- MRV System Development - The monitoring tool was updated to include additional variables (digestate, multiple feedstocks). Coordination for stakeholder training and data collection was initiated.
- Demonstration Projects Monitoring - Compression and flare systems were installed. Weekly alignment meetings transitioned to email follow-ups due to unresolved platform data issues, prompting contract termination.
- Information Dissemination - Participation in high-impact events, including South Brazil Biogas Forum, ABES Congress, CEM-MI side event in Brazil, COP30 preparation, and IFAT Brazil. Communication materials and infographics were produced.
- Biogas Information Platform Transfer - Agreement drafted and signed for transferring PiBiogás to ABiogás, formalizing roles and updating strategies.
- Training Package Preparation - Licensing model validated; material prepared for publication in MCTI repository and future dissemination.
- Monitoring and Evaluation - Monthly reports and the PIR were produced as scheduled. Preparations began for the Terminal Evaluation with ToR finalization and consultants' recruitment.

Project log frame with cumulative progress against the project deliverables is listed in the annexes section (9057_Project-logframe-and-results).

B. Challenges: Information on challenges of project implementation activities

The biggest challenge was to implement the remote online monitoring system in the demonstration projects, as per the challenges highlighted below:

- Lack of Real-Time Data Integration - Monitoring platforms did not receive consistent or reliable real-time data from demonstration projects, hampering GHG calculation efforts.
- Fragmented Data Sources - Data collection systems were not standardized, creating difficulties in merging and analysing information effectively.
- Limited Connectivity in Project Sites - Remote project locations had connectivity issues, delaying data transmission and reducing system responsiveness.
- Insufficient Technical Capacity - Local teams faced challenges using digital tools and platforms due to limited training and technical expertise.
- Delayed Field Assessments - Postponed visits and on-site evaluations impacted timely validation and data verification for monitoring.
- Incomplete Documentation and Reporting - Inadequate project records from the monitoring provider led to gaps in the data required to fulfil reporting and GHG assessment needs.
- Demonstration Site Variability - Diverse technologies and operational setups across sites complicated unified monitoring approaches.
- Unclear Monitoring Protocols - Lack of clearly defined monitoring procedures contributed to inconsistent practices between project components.
- Limited Feedback Loop - Absence of continuous learning mechanisms hindered improvements in monitoring performance over time.

C. Stakeholder Engagement

MCTI and MMA: During the reporting period, the ministries have sought support from UNIDO to ensure the implementation of follow-up initiatives. By the time this report was finalized, an approved proposal for the Detailed Diagnostic phase, funded by MAF, is underway, focusing on biofertilizer production using waste, including biodigestion residues. However, a specific project for the biogas sector had not yet been approved.

SANEPAR: The development of a follow-up proposal to be funded by SANEPAR has progressed since the previous reporting exercise. A concept note produced by the Project team in conjunction with SANEPAR's Innovation and New Business Manager is currently being evaluated by the UNIDO team at HQ, with the possibility of signing a new project for public launch at COP30, to be held in Brazil in November 2025.

D. Gender Equality

No new activities were developed that could encompass specific gender equality initiatives during this period. However, our communications team submitted the case of our Demonstration Unit, managed by a woman, to two international calls for proposals, and we hope to be successful in the second half of the year.

E. Knowledge Management

The Project's knowledge products, including reports, digital tools, collaboration networks, and videos, among others, have been transferred to institutions committed to their continuity and sustainability after the project ends. This process is expected to be completed in Q3 2025.

III: Minor Amendments

CONTEXT	
Result Framework	
Components and Cost	

Institutional And Implementation Arrangements	
Financial Management	During the extension request, the project team conducted a budget review, to rearrange costs according to the new work plan and end of the project cycle.
Implementation Schedule	The implementation schedule has moved from April 2025 to December 2025.
Executing Entity	
Executing Entity Category	
Minor Project Objective Change	
Safeguards	
Risk Analysis	
Increase of GEF Financing up to 5%	
Co-Financing	
Location of Project Activity	
others	

IV: Geographic Coordinates of Project Activities

Location Name	Latitude	Longitude	GeoName ID
Fecularia Três Fronteiras Ltda.	-22.759181873869625	-52.89600118024038	

Location Description:

Demonstration project within a starch industry with improvements implemented in the biogas plant.

Activity Description:

Location Name	Latitude	Longitude	GeoName ID
3Gs Adubos Orgânicos	-25.6352	-53.22621	

Location Description:

Demonstration project within a fertilizer industry with improvements implemented in the biogas plant

Activity Description:

Location Name	Latitude	Longitude	GeoName ID
EnerDinBo Geradora de Energia LTDA	-24.7969	-53.93681	

Location Description:

Demonstration project within a renewable energy industry with improvements implemented in the biogas plant.

Activity Description:

Location Name	Latitude	Longitude	GeoName ID
Granja Kist e Froelich	-27.87083	-54.48139	

Location Description:

Demonstration project within a poultry industry with improvements implemented in the biogas plant.

Activity Description:

Location Name	Latitude	Longitude	GeoName ID
Granja Master - São Roque	-27.03437	-51.10156	

Location Description:

Demonstration project within a poultry industry with improvements implemented in the biogas plant.

Activity Description:

V. ANNEX

Uploaded Document

Document Category M and E Document	Title 9057_Grant Delivery Report by Grant and SP and SC Detail
Document Category M and E Document	Title 9057_LinkedIn_Posts
Document Category M and E Document	Title 9057_Instagram_Posts

Document Category M and E Document	Title 9057_News_CEM-MI
Document Category M and E Document	Title 9057_News_FSBBB_2025
Document Category M and E Document	Title 9057_News_FSBBB_Announcement
Document Category M and E Document	Title 9057_News_Launch_MSW_Tool
Document Category M and E Document	Title 9057_News_MSW_GDF
Document Category M and E Document	Title 9057_News_PSC_Meeting
Document Category M and E Document	Title 9057_News_SWWS
Document Category M and E Document	Title 9057_News_UE_Brasil_Foresight
Document Category M and E Document	Title 9057_Project-logframe-and-results
Document Category M and E Document	Title 9057_PSC-9-MeetingMinutes-20250213-Eng
Document Category M and E Document	Title 9057_PSC-9-MeetingMinutes-20250213-Port
Document Category M and E Document	Title 9057_PSC-9-MeetingParticipants-20250213
Document Category M and E Document	Title 9057_PSC-9-MeetingPresentation-20250213-Port
Document Category M and E Document	Title 9057_WorkPlan_2025-CDP-v02
Document Category M and E Document	Title 9057_2025_PIR_GEF_Biogas_Brazil - Final