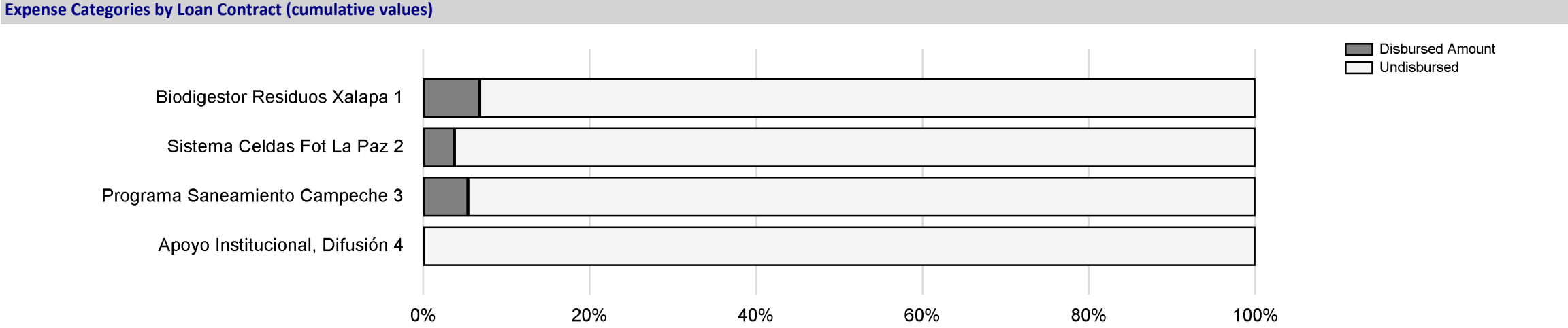


PMR Public Report

Operation Number	ME-G1012	Chief of Operations Validation Date	04/18/22
Year- PMR Cycle	Second period Jan-Dec 2021	Division Chief Validation Date	04/19/22
Last Update	03/30/22	Country Representative Validation Date	05/09/22
PMR Validation Stage	Validated by Representative		

Basic Data			
Operation Profile			
Operation Name	GEF Program for the Implementation of Prioritized ESC Projects in Three Mexican Cities	Loan Number	GRT/FM-16409-ME
Executing Agency	BANCO NACIONAL DE OBRAS Y SERVICIOS PUBLICOS, S.N.C.	Sector/Subsector	ENERGY-BIO-ENERGY
Team Leader	RIQUELME, RODRIGO	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Investment Grants	Country	Mexico
Lending Instrument		Convergence related Operation(s)	
Borrower	ESTADOS UNIDOS MEXICANOS		
Environmental and Social Safeguards			
Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating		Date of approval	
Safeguard Performance Rating - Rationale			

Financial Data									
	Total Cost and Source					Available Funds (US\$)			
Operations	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Amount
ME-G1012	13,761,468	13,761,468	0	98,300,000	112,061,468	13,761,468	958,369.52	6.96%	12,803,098.48
Aggregated	13,761,468	13,761,468	0	98,300,000	112,061,468	13,761,468	958,369.52	6.96%	12,803,098.48



Please note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

RESULTS MATRIX
General Development Objectives

RESULTS MATRIX														
Specific Development Objectives														
Specific Development Objectives Nbr. 0: 1. Improve and increase the solid waste management and the generation of low-carbon energy to reduce greenhouse emissions in Xalapa														
Observation:														
	Indicator			Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
0.0	Tons of greenhouse gas emissions avoided associated to energy production by the biodigester plant in Xalapa			Tons of CO2eq/y	0	2017	P	-	-	-	-	-	1,792	1,792
							A	-	-	-	-	-	-	-
Details														
Means of Verification: *Annual Average. The information will be provided by Banobras based on the reports delivered by the operator														
Observations:														
Evaluation Methodology: -														
Pro-Gender	No	Pro-Ethnicity	No	CRF indicator										
	Indicator			Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
0.1	Tons of municipal solid waste disposed at the sanitary landfill of Xalapa			ton/day	490	2017	P	-	-	-	-	-	430	430
							A	-	-	-	-	-	-	-
Details														
Means of Verification: Operation log of incoming and outgoing solid waste conducted by operator and included in the Final Evaluation														
Observations:														
Evaluation Methodology: -														
Pro-Gender	No	Pro-Ethnicity	No	CRF indicator										
	Indicator			Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
0.2	Power production from low-carbon energy sources in Xalapa			MWh/year	0	2017	P	-	-	-	-	-	3,962	3,962
							A	-	-	-	-	-	-	-
Details														
Means of Verification: Power: 452 KW. Operation log tracked by the meter and included in the Final Evaluatio														
Observations:														
Evaluation Methodology: -														
Pro-Gender	No	Pro-Ethnicity	No	CRF indicator										
	Indicator			Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
0.3	Tons of compost produced by the biodigester in Xalapa			ton/day	0	2017	P	-	-	-	-	-	26	26
							A	-	-	-	-	-	-	-
Details														
Means of Verification: Operation log of incoming and outgoing compost conducted by the operator, and included in the Final Evaluation														
Observations:														
Evaluation Methodology: -														
Pro-Gender	No	Pro-Ethnicity	No	CRF indicator										
Specific Development Objectives Nbr. 1: Increase the production of low carbon energy to reduce greenhouse gas emissions in La Paz														
Observation:														

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
1.0	Tons of greenhouse gas emissions avoided through solar panels in La Paz	Tons of CO2eq/y	0	2017	P	-	-	1,692	1,684	-	-	1,589
					A	-	-	-	-	-	-	-

Details

Means of Verification: *Annual Average during project lifetime taking into account public buildings from first phase. Semester Progress Report of overall production

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
1.1	Power production from low-carbon energy sources in La Paz	MWh/y	0	2017	P	-	-	1,959	1,949	-	-	1,840
					A	-	-	-	-	-	-	-

Details

Means of Verification: *Annual Average during project lifetime taking into account public buildings from first phase. Operational logs from meter readings aggregated over all PV plants

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 2: The municipality and stakeholders have the technical, environmental and economic information needed to make a decision on whether or not make the investment in Campeche

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
2.0	Technical, environmental and economic studies agreed and approved by the Municipality and stakeholders to build the Campeche infrastructure project	# of times	0	2017	P	-	-	-	-	-	1	1
					A	-	-	-	-	-	-	-

Details

Means of Verification: Report of the municipality approving the project

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 3: Improve and promote solid waste management –control and recovery of materials- in order to encourage the generation of low-carbon energy and the reduction of GHG emissions

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
3.0	Number of times that the pilot projects have served as a reference for other projects in the country	# of times	0	2017	P	-	-	-	-	-	2	2
					A	-	-	-	-	-	-	-

Details

Means of Verification: The information will be provided by Banobras and included in the Final Evaluation

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 5: GEF Performance Ratings

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
5.0	Rating of Likelihood of Achieving Project Global Environmental Objective (DO) (Scale: 1 - 6, where 1 = Highly Satisfactory [HS] and 6 = Highly Unsatisfactory [HU])	#	0	2017	P	-	-	-	-	-	-	-
					A	1	1	1	2	3	-	-
Details												

Means of Verification:

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
5.2	Rating of Implementation Progress (IP) (Scale: 1 - 6, where 1 = Highly Satisfactory [HS] and 6 = Highly Unsatisfactory [HU])	#	0	2017	P	-	-	-	-	-	-	-
					A	2	2	2	3	3	-	-
Details												

Means of Verification:

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	EOP 2022
5.3	Rating of overall Risk that may affect project performance (RISK) (Scale 1 - 4, where 1 = High Risk [H] and 4 = Low Risk [L])	#	0	2017	P	-	-	-	-	-	-	-
					A	3	3	3	2	2	-	-
Details												

Means of Verification:

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Biodigester for Xalapa’s solid waste management system operating

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2022	2021	EOP 2022
1.01	Final design of the biodigester plant in Xalapa finalized	Study	P	-	1	-	200,000
			P (a)	1	1	69,915	200,000
			A	1	1	69,915	200,000
1.02	Biodigester for Xalapa’s solid waste management system operating	Biodigester	P	1	1	-	3,390,547
			P (a)	-	1	-	3,390,547
			A	-	-	-	-
1.03	Preliminary works executed	Works	P	-	1	3,390,546	3,390,546
			P (a)	1	1	3,311,748	3,390,546
			A	-	-	246,567	325,365
1.04	Biodigester and energy production plant in Xalapa built	plant	P	1	1	100,000	200,000
			P (a)	-	1	100,000	200,000
			A	-	-	-	-

Component Nbr. 2 Solar photovoltaic capacity for self-supply in public buildings and schools in La Paz

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2022	2021	EOP 2022
2.01	kW of generation capacity installed – low carbon sources in La Paz	kW	P	1,540	2,580	1,500,000	4,500,000
			P (a)	1,040	2,580	2,957,905	4,500,000
			A	-	-	315,819	357,914

Component Nbr. 3 Comprehensive program for the sanitation of the Bay of Campeche

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2022	2021	EOP 2022
3.01	Detailed-design of the sanitation infrastructure in Campeche completed considering climate change adaptation measures	Study	P	-	1	-	1,000,000
			P (a)	1	1	946,500	1,000,000
			A	-	-	-	53,500

Component Nbr. 4 Institutional strengthening, dissemination and communication

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2022	2021	EOP 2022
4.01	Biodigester and solar photovoltaic power plants seminars, conference, capacity building and lesson-learned activities conducted	Seminars, conference, activities	P	1	3	10,000	30,000
			P (a)	2	3	20,000	30,000
			A	-	-	-	-
4.02	Biodigester, solar photovoltaic power plants, and sanitation technical training workshops in Xalapa, La Paz and Campeche conducted	Trainings	P	1	3	20,000	50,000
			P (a)	2	3	35,000	50,000
			A	-	-	-	-
4.03	Technical guidelines developed to replicate the biodigester technology	Document	P	1	1	50,000	50,000
			P (a)	1	1	50,000	50,000
			A	-	-	-	-
4.04	Performance assessment study of solar PV technologies in schools developed	Report	P	1	1	50,000	50,000
			P (a)	1	1	50,000	50,000
			A	-	-	-	-
4.05	Review paper with lessons learned from the experience on photovoltaic plants in public schools developed	Paper	P	1	1	50,000	50,000
			P (a)	1	1	50,000	50,000
			A	-	-	-	-

Other Cost				
	Administración	P	127,075	635,375
		P (a)	423,584	635,375
		A	0	0
	Auditoria	P	15,000	75,000
		P (a)	37,500	75,000
		A	10,860	10,860
	Monitoreo	P	12,000	60,000
		P (a)	40,000	60,000
		A	0	0
	Evaluación Intermedia	P	0	30,000
		P (a)	30,000	30,000
		A	0	0
	Evaluación Final	P	0	50,000
		P (a)	0	50,000
		A	0	0
Total Cost				
	Total Cost	P	5,326,168	13,764,062
		P (a)	8,123,202	13,764,062
		A	643,162	947,640

No information available for this section

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
1	Inactive		Technical Design
	Response Actions		
	1.1	Management Strategy	Status
		MITIGATE	COMPLETE

Risk ID	Risk Status		Risk Taxonomy		
4	Inactive		Organizational Structure		
	Response Actions				
	4.1	Management Strategy		Status	
		MITIGATE		COMPLETE	

Risk ID	Risk Status		Risk Taxonomy
6	Inactive		Legal Environment
	Response Actions		
	6.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
7	Active		Internal Processes
	Response Actions		
	7.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy		
10	Active		Sustainability		
	Response Actions				
	10.1	Management Strategy		Status	
		MITIGATE		ACTIVE	
	10.2	Management Strategy		Status	
		MITIGATE		INACTIVE	

Risk ID	Risk Status		Risk Taxonomy
12	Active		Organizational Structure
	Response Actions		
	12.1	Management Strategy	Status
		MITIGATE	ACTIVE
	12.2	Management Strategy	Status
		MITIGATE	COMPLETE

Risk ID	Risk Status		Risk Taxonomy
14	Active		Political Environment
	Response Actions		
	14.1	Management Strategy	Status
		MITIGATE	ACTIVE

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Others - Technical-Sectorial Dimensions