



Energy Efficiency in Public Facilities Project (PRESEMEH) (P149872)

LATIN AMERICA AND CARIBBEAN | Mexico | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2016 | Seq No: 12 | ARCHIVED on 31-May-2022 | ISR51111 |

Implementing Agencies: Secretaría de Energía (SENER), United Mexican States

Key Dates

Key Project Dates

Bank Approval Date: 08-Mar-2016

Effectiveness Date: 23-Sep-2016

Planned Mid Term Review Date: 15-Jul-2019

Actual Mid-Term Review Date: 07-Oct-2019

Original Closing Date: 31-Oct-2021

Revised Closing Date: 30-Apr-2023

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The objective of the project is to promote the efficient use of energy in the Borrower's municipalities by carrying out energy efficiency investments in selected municipal sectors and contribute to strengthening the enabling environment.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

The objective is to promote the efficient use of energy in the Borrower's municipalities and other eligible public facilities by carrying out energy efficiency investments in selected public sectors and to contribute to strengthening the enabling environment.

Components Table

Name

Policy development and institutional strengthening:(Cost \$2.12 M)

Municipal energy efficiency investments:(Cost \$55.19 M)

Public Facility Energy Efficiency Investments:(Cost \$9.38 M)

Municipal Energy Efficiency Contingency Facility:(Cost \$6.08 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate



Implementation Status and Key Decisions

The Project's implementation has progressed despite challenges associated with the COVID-19 pandemic and natural hazards, like hurricanes affecting the state of Veracruz (that led to the extension of the closing date from October 2021 to April 2023). The procurement process of the technical assistance activities on national energy efficiency norms in buildings and street lighting is ongoing and expected to be completed in June 2022, achieving the targeted 3 regulation tools designed aiming at scaling up energy efficiency investments. A new TA activity has been incorporated under Component 1 which will consist in the analysis of lessons learned and social benefits of street lighting subprojects. Under Municipal energy efficiency investments, since the end of November 2021, one municipal lighting sub-project has been completed and another one is nearing completion (11 street light interventions have been completed or are under implementation of the targeted 14). Energy audits in three more municipalities are almost completed and energy audits in another three municipalities will start in June 2022. Under Public Facility Energy Efficiency Investments, energy audits of 16 IMSS (Instituto Mexicano del Seguro Social) hospital buildings have been conducted and the procurement process of energy efficiency interventions will start in June 2022. The energy audits of five health facilities of the State of Tabasco conducted in 2020 are under review. They have been added to the project pipeline since they are no longer designed as COVID facilities as of March 2022. Under the project, 38 subprojects have been designed exceeding the targeted 22, 14 of them for municipal energy efficiency investments and 22 for energy efficiency investments in hospitals.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	□ Moderate	□ Moderate	□ Moderate
Macroeconomic	□ Low	□ Low	□ Low
Sector Strategies and Policies	□ Low	□ Low	□ Low
Technical Design of Project or Program	□ Substantial	□ Moderate	□ Moderate
Institutional Capacity for Implementation and Sustainability	□ Moderate	□ Moderate	□ Moderate
Fiduciary	□ Substantial	□ Substantial	□ Substantial
Environment and Social	□ Low	□ Low	□ Low
Stakeholders	□ Low	□ Moderate	□ Moderate
Other	□ Moderate	□ Moderate	□ Moderate
Overall	□ Substantial	□ Moderate	□ Moderate

Results

PDO Indicators by Objectives / Outcomes

Promote the efficient use of energy				
► Projected lifetime energy savings (Megawatt hour(MWh) (Megawatt hour(MWh), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	149,069.00	163,956.00	290,000.00



Date	31-Jul-2016	04-Nov-2021	16-May-2022	30-Apr-2023
Comments:	<p>The following results reflect energy savings from 10 municipal street lighting subprojects already completed.</p> <p>Energy savings measures are being designed/ implemented in one municipality and 25 hospitals. The street lighting project is close to completion, 12 hospitals will start the procurement process between June and July 2022, and 13 hospitals are finalizing the project design. All of them are expected to be completed by the project closing date, with estimated savings that would allow to meet the end target.</p>			

Promote the efficient use of energy

► Number of ESAs signed (Number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	15.00	16.00	21.00
Date	31-Jul-2016	04-Nov-2021	16-May-2022	30-Apr-2023
Comments:	<p>ESAs signed with the municipalities of: Leon, Huamantla, Miguel Hidalgo, Hujuapan de Leon, Puebla, Cozumel, Cozumel 2, Oaxaca, Culiacan, Rio Grande, Pinos, Xalapa, Coatzacoalcos y Solidaridad.</p> <p>ESAs signed with hospitals: Hospitals of Mexico City and Hidalgo</p> <p>19 more ESAs are expected to be signed in the next three months, 18 of which with IMSS hospitals and 1 more for the 5 hospitals in Tabasco.</p>			

Promote the efficient use of energy

► Projected Lifetime GHG emission reductions (tones/year) (Tons/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	75,778.21	83,132.00	145,000.00
Date	31-Jul-2016	04-Nov-2021	16-May-2022	30-Apr-2023
Comments:	GHG savings are derived from the energy savings using the national emissions grid factor.			

Strengthening the enabling environment

► Number of regulatory information tools designed to support the implementation of the national energy efficiency strategy (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	31-Jul-2016	04-Nov-2021	16-May-2022	30-Apr-2023
Comments:	<p>The expected outputs under Component 1 will inform the update of 2 national energy efficiency norms in buildings and 1 national energy efficiency norm in street lighting by CONUEE. These norms will be three tools to scale-up energy efficiency at national level.</p>			

Intermediate Results Indicators by Components



Policy development and institutional strengthening

► Participants in engagement activities during project implementation (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	429.00	429.00	300.00
Date	01-Feb-2016	04-Nov-2021	16-May-2022	30-Apr-2023

□ Participants in engagement activities during project implementation – female (Number) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95.00	95.00	100.00
Date	01-Feb-2016	04-Nov-2020	16-May-2022	30-Apr-2023

Municipal energy efficiency investments

► Average of payment discipline per municipality (avoidance of default) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	90.00
Date	01-Feb-2016	04-Nov-2021	16-May-2022	30-Apr-2023

► Number of Street light interventions (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	11.00	11.00	14.00
Date	01-Feb-2016	04-Nov-2021	16-May-2022	30-Apr-2023

Comments:

Street light interventions include:
 Leon, Miguel Hidalgo, Huajapan de Leon, Oaxaca, Cozumel, Culiacan, Rio Grande, Los Pinos, Solidaridad and Xalapa, which were completed.
 Coatzacoalcas, which was under implementation in March 2022.
 SENER has signed activity initiation agreements (CIA) with seven other municipalities to implement street lighting interventions, hence the end target is expected to be achieved.

Public Facility Energy Efficiency Investments

► Capacity building, outreach and training activities implemented (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10.00	10.00	12.00
Date	01-Feb-2016	04-Nov-2021	16-May-2022	30-Apr-2023



► Number of Sub-projects designed (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	21.00	38.00	22.00
Date	01-Feb-2016	04-Nov-2021	16-May-2022	30-Apr-2023
Comments:	17 energy audits have been completed since November 2021: 1 street lighting system in the municipality of Tulacingo de Bravo, and 16 hospitals. The end target has been already achieved. Even though, at least 4 more projects for hospitals will be designed in the next 3 months.			

► Public Facility interventions (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	07-Feb-2018	04-Nov-2020	16-May-2022	30-Apr-2023

Performance-Based Conditions

Data on Financial Performance

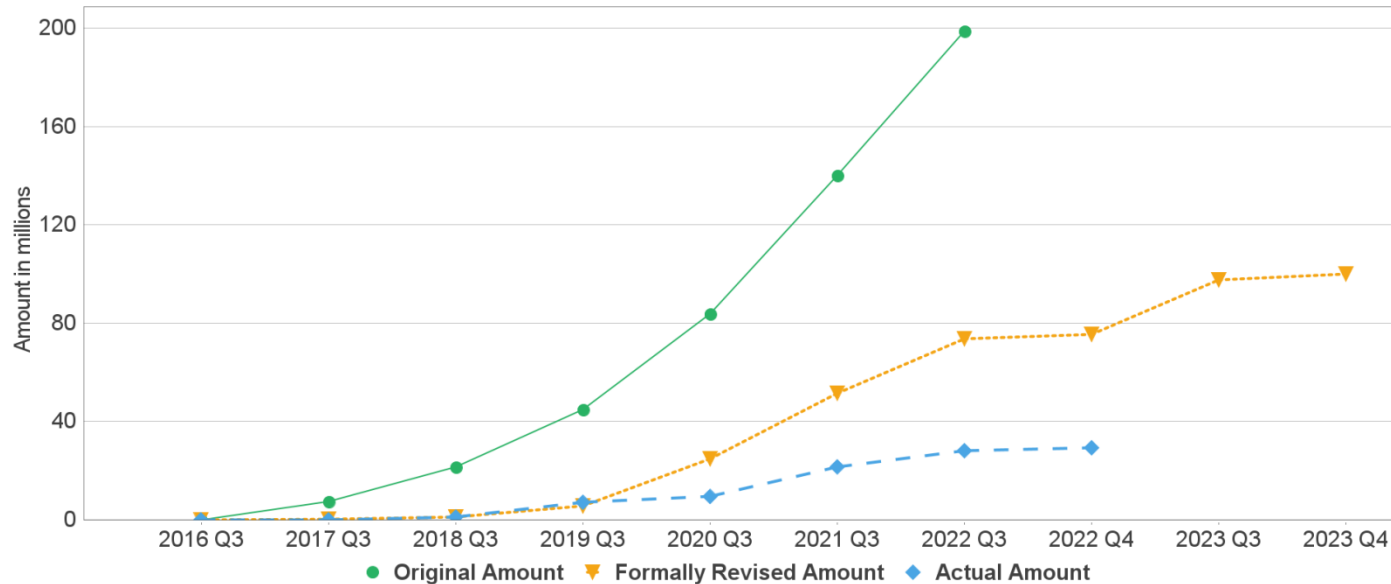
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P149872	IBRD-85940	Effective	USD	100.00	43.30	56.70	23.64	19.66	55%
P149872	IBRD-88440	Effective	USD	50.00	6.70	43.30	0.17	6.53	2.6%
P160778	TF-A7062	Effective	USD	5.79	5.79	0.00	5.79	0.00	100%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P149872	IBRD-85940	Effective	08-Mar-2016	29-Jul-2016	23-Sep-2016	31-Oct-2021	30-Apr-2023
P149872	IBRD-88440	Effective	30-Mar-2018	10-Aug-2018	26-Oct-2018	31-Oct-2021	30-Apr-2023
P160778	TF-A7062	Effective	30-Mar-2018	10-Aug-2018	26-Oct-2018	31-Oct-2021	30-Apr-2023

Cumulative Disbursements



Restructuring History

Level 2 Approved on 18-Dec-2020 ,Level 2 Approved on 14-Oct-2021

Related Project(s)

P160778-Additional Finance for Energy Efficiency in Public Facilities Project (PRESEMEH) ,P165585-Additional Financing for Energy Efficiency in Public Facilities Project (PRESEMEH)