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: 14 | ARCHIVED on 28-Jun-2023 | ISR56387 |

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: 28-Oct-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 outenergy 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

Public Disclosure Authorized

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	☐ Moderately Satisfactory	☐ Moderately Satisfactory
Overall Implementation Progress (IP)	□ Moderately Satisfactory	☐ Moderately Satisfactory
Overall Risk Rating	□Moderate	□Moderate

6/28/2023 Page 1 of 7

Implementation Status and Key Decisions

The Project has completed 11 municipal street lighting subprojects. Another 9 subprojects are under implementation, of which 2 have already finalized lighting installation, and another 4 are quite advanced and are expected to finalize by July 2023, while the last 3 are expected to start between June and July 2023 to finalize works by September 2023.

The Project is also implementing subprojects in hospitals: 16 facilities administered by IMSS[PG1] (*Instituto Mexicano de Seguro Social*, or Mexican Social Security Institute, in English) and 2 administered by the State of Tabasco. Solar photovoltaic (PV) systems are being installed in all 18 hospitals, while replacement of lighting systems is ongoing in 13 of them, and replacement of air conditioning have started in 6 of the 18 hospitals.

The energy efficiency investment subprojects already completed and those under implementation are expected to generate lifetime energy savings of 389,846 MWh and greenhouse gas emission reductions of 176,028 tCO2/year, surpassing the project's target indicators of 290,000 MWh and 145,000 tCO2 respectively.

The technical assistance (TA) activities under Component 1 and 3a (Policy development and institutional strengthening) are ongoing, and their progress is satisfactory. These activities are informing the update of national energy efficiency regulations for buildings (residential and commercial) and street lighting, identifying PRESMEH lessons learned, and implementing an online course on energy efficiency in hospitals. The 4 TA activities are expected to be completed by August 2023.

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	Moderate
Environment and Social	□Low	□Low	Low
Stakeholders	Low	□Moderate	Moderate
Other	□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	184,759.00	184,759.00	290,000.00			

6/28/2023 Page 2 of 7

Promote the efficient use of energy

Date	31-Jul-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023
Comments:	completed. Energy savings measures are expected to be completed that would allow to meet the installation works to renotwithstanding, municipal recepción" in Spanish) to experience of the installation works to recepción.	eplace street lighting are com I authorities are yet to sign the complete the administrative c eted. As soon as municipalitie	ner 9 municipalities and 18 te, with their associated expleted in Minantital and Ne "final reception certificat losure of both subrojects.	8 hospitals. All of them stimated energy savings anchital municipalities; ion" ("acta final de So, these projects are

Promote the efficient use of energy							
►Number of ESAs signed (Number) (Number, Custom)							
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	24.00	35.00	21.00			
Date	31-Jul-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023			

► Projected Lifetime G	HG emission reductions (tones/	year) (Tons/year, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	87,919.00	87,919.00	145,000.00
Date	31-Jul-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023
Comments:	efficiency investme emissions factor.	erived from the energy savings ints in municipal street lighting a an and Nanchital municipalities 45 tones/year.	and hospitals and calculated	d using the national grid

Strengthening the enabling	g environment			
► Number of regulatory in (Number, Custom)	nformation tools designed to s	support the implementation of th	e national energy efficiency	y strategy (number)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	31-Jul-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023
Comments:	buildings and 1 nati tools to scale-up en	its under Component 1 will infor onal energy efficiency norm in s ergy efficiency at national level. ill enable meeting the target for	street lighting by CONUEE. The activities are expecte	These norms will be three

6/28/2023 Page 3 of 7

Intermediate Results Indicators by Components

Policy development a	and institutional strengthening			
►Participants in eng	gagement activities during project i	implementation (number) (Num	ber, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	429.00	493.00	300.00
Date	01-Feb-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023
□Participants in e	ngagement activities during project Baseline	t implementation – female (Num Actual (Previous)	nber) (Number, Custom Bre Actual (Current)	akdown) End Target
□Participants in el			, ,	,

Municipal energy efficie	ncy investments			
► Average of payment	discipline per municpality (avoid	ance of default) (Percentage, 0	Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	90.00
Date	01-Feb-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023
►Number of Street light	nt interventions (number) (Numb	er, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	11.00	11.00	14.00
Date	01-Feb-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023
Comments:	Leon, Miguel Hidalg Solidaridad and Xala Activity initiation agr energy efficient stree Córdoba, Calkiní, Di Pablo del Monte was September 2022). Of these 10 municip mission and since th December 2022 dea is working on the en Portfolio. Their procurement p	ions have been completed in to to, Huajapan de Leon, Oaxaca, apa, and Coatzacoalcos. eements (CIA) have been signet lighting interventions (CIAs fizitbalché, and Hermosillo signes signed in July 2022, and the allities, the procurement process the October 2022 mission the produced in July 2023, and the regy audits and executive projectocess would be launched und implementation, the total numuld reach 21.	Cozumel, Culiacan, Rio Greed with ten (10) other munifor Minatitlán, Nanchital, Mired between February and A CIAs for Papantla and Tuxpess for Nanchital was already rocurement processes are be la Reforma, Calkini, Dzibaects of the remaining four moder the Project only if the closes.	rande, Los Pinos, cipalities to implement neral de la Reforma, pril 2022; the CIA for San pan were signed in y underway at the time of the peing launched (by the alche and Hidalgo. FIDE nunicipalities in the Project's psing date of the Project is

6/28/2023 Page 4 of 7

Public Facility Energy E	fficiency Investments					
► Capacity building, ou	streach and training activities imp	plemented (number) (Number,	Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	10.00	10.00	12.00		
Date	01-Feb-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023		
Comments:	on energy efficiency 3a, and (ii) a worksh the three consultand	building and dissemination active in hospitals, which design and nop to be organized by SENER cies being currently implemented, NOM-0.13 and NOM-020).	I implementation is currently and CONUEE to dissemin	y ongoing under Component ate findings and results of		
►Number of Sub-proje	ects designed (number) (Number	r, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	45.00	47.00	22.00		
Date	01-Feb-2016	22-Nov-2022	12-Jun-2023	28-Oct-2023		
Comments:	audits for individual	ne results Indicator "Number of I sub-projects, has been alread ividual hospitals In addition, ad next three months	y exceeded: 25 energy aud	lits in municipalities and 22		
► Public Facility interve	entions (number) (Number, Cust	om)				
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	1.00		
Date	07-Feb-2018	22-Nov-2022	12-Jun-2023	28-Oct-2023		
Comments:	interventions in pub with the State of Tal hospitals. The exte interventions that ar Results Indicator tal	The indicator refers to the administrative entity with which ESAs are signed for energy efficiency interventions in public facilities (i.e. hospitals)*. Under the Project, ESAs are being signed with IMSS and with the State of Tabasco, which will lead to energy efficiency interventions in their respective hospitals. The extension of the Closing Date will enable the completion of the hospitals (public facilities) interventions that are administered by IMSS and the State of Tabasco and will enable exceeding the Results Indicator target (2 is the expected result). *energy efficiency in public hospitals are a type of "public facility intervention"				

Overall Comments

Note: The number of subprojects designed, meaning energy audits carried out, is higher than the target because, in order to avoid potential restrictions derived from the COVID-19 pandemic, it was decided to have a bigger pipeline of investment-ready hospitals, which could go through procurement quickly if EE interventions in any other hospital were canceled (as it happened in the 6 hospitals of Tabasco in 2020-

6/28/2023 Page 5 of 7

2021). So the design of a higher number of sub-projects (i.e., the number of energy audits) was essentially a strategy to try to manage the hospital closure risks associated with the COVID pandemic.

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

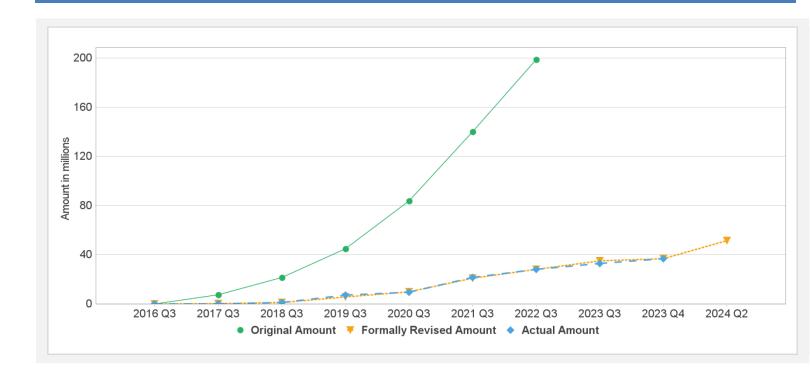
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	%	Disbursed
P149872	IBRD-85940	Effective	USD	100.00	43.30	56.70	29.78	13.52		69%
P149872	IBRD-88440	Effective	USD	50.00	6.70	43.30	1.50	5.20		22%
P160778	TF-A7062	Effective	USD	5.79	5.79	0.00	5.79	0.00		100%

Key Dates (by Ioan)

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	28-Oct-2023
P149872	IBRD-88440	Effective	30-Mar-2018	10-Aug-2018	26-Oct-2018	31-Oct-2021	28-Oct-2023
P160778	TF-A7062	Effective	30-Mar-2018	10-Aug-2018	26-Oct-2018	31-Oct-2021	28-Oct-2023

Cumulative Disbursements

6/28/2023 Page 6 of 7



Restructuring History

Level 2 Approved on 18-Dec-2020 ,Level 2 Approved on 14-Oct-2021 ,Level 2 Approved on 26-Jan-2023

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)

6/28/2023 Page 7 of 7