

# PMR Operational Report

<b>Operation Number</b>	AR-L1280	<b>Chief of Operations Validation Date</b>	03/28/19
<b>Year- PMR Cycle</b>	Second period Jan-Dec 2018	<b>Division Chief Validation Date</b>	04/03/19
<b>Last Update</b>	03/19/19	<b>Country Representative Validation Date</b>	04/10/19
<b>PMR Validation Stage</b>	Validated by Representative		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Promoting Risk Mitigation Instruments and Finance for Renewable Energy and Energy Efficiency Investments	<b>Loan Number</b>	4565/GN-AR
<b>Executing Agency</b>	BANCO INVERSION Y COMERCIO EXTERIOR	<b>Sector/Subsector</b>	FM-FES - FINANCIAL MARKETS-FINANCING FOR ENVIRONMENTAL SUSTAINABILITY
<b>Team Leader</b>	NETTO DE A. C. SCHNEIDER, MARIA E.	<b>Overall Stage</b>	Approved
<b>Operation Type</b>	Loan Operation	<b>Country</b>	ARGENTINA
<b>Lending Instrument</b>	Investment Loan	<b>Convergence related Operation(s)</b>	
<b>Borrower</b>	Republica Argentina		

## Environmental and Social Safeguards

<b>Impacts Category</b>	B13	<b>Was/Were the objective(s) of this operation reformulated?</b>	NO
<b>Safeguard Performance Rating</b>		<b>Date of approval</b>	
<b>Safeguard Performance Rating - Rationale</b>			

## Financial Data

Item	Total Cost and Source					Available Funds (US\$)			
	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disb	Undisbursed Amount
AR-L1280	100,000,000	100,000,000	60,000,000	0	160,000,000	100,000,000	0	0.00%	100,000,000
<b>Aggregated</b>	<b>100,000,000</b>	<b>100,000,000</b>	<b>60,000,000</b>	<b>0</b>	<b>160,000,000</b>	<b>100,000,000</b>	<b>0</b>	<b>0.00%</b>	<b>100,000,000</b>

## Expense Categories by Loan Contract (cumulative values)

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.

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### RESULTS MATRIX

#### IMPACTS

**Impact Nbr. 0:** Promote the efficiency in the production and use of energy in Argentina

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2023	EOP 2023
0.0	1. Power generation from RE sources (excludes large hydro) as a share of total demand	%	1.80	2016	P		6.80
					P(a)		
					A		

#### Details

**Means of verification:** Source: Official data from the Ministerio de Energía y Minería (MINEM).

**Observations:** This measure includes all new investments added to the system, including those supported by the program. This impact is related to RE projects under the program. Target estimate is based on country's authority projections.

**Pro-Gender** No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2023	EOP 2023
0.1	2. Energy intensity to Gross Domestic Product (GDP).	toe/1,000 US\$	0.19	2015	P		0.16
					P(a)		
					A		

#### Details

**Means of verification:** Source: IEA and official data from the MINEM.

**Observations:** Measures the quantity of energy required to generate US\$1,000 of GDP. This impact is related to EE projects under the program.

**Pro-Gender** No **Pro-Ethnicity** No

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### RESULTS MATRIX

#### OUTCOMES

**Outcome Nbr. 0:** i) increase SME (defined as per Argentine's government classification) investments in RE and EE, by providing access to medium and long-term finance; and (ii) contribute to the reduction of GHG emissions.

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	EOP 2023
0.0	1. Financing from third parties mobilized by the program.	Millions of US\$	0.00	2018	P	6.50	13.00	18.20	22.60	6.70		67.00
	1.1 Financing from third parties mobilized by RE projects from Small and Medium Enterprises (SME) financed.				P(a)							
	1.2 Financing from third parties mobilized by EE projects from SMEs financed.				A							

#### Details

**Means of verification:** Source: Annual Report (AR) on program execution by BICE.

**Observations:** Includes all sources of financing (debt or equity) other than the IDB and Banco de Inversión y Comercio (BICE) own resources. Target estimate based on the average total investment required per project and an average 70/30 debt to equity ratio observed in similar projects. Total investment = US\$160 million from the program + equity + other sources

**Pro-Gender**

No

**Pro-Ethnicity**

No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	EOP 2023
0.1	2. Small and Medium Enterprises (SME) that finance EE projects with resources from the program.	Project	0.00	2018	P	4.00	8.00	23.00	34.00	45.00		114.00
					P(a)							
					A							

#### Details

**Means of verification:** Source: AR on program execution by BICE.

**Observations:** Measures number of EE projects implemented and in operation.

**Pro-Gender**

No

**Pro-Ethnicity**

No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	EOP 2023
0.2	3. Annual electricity generation from RE sources by projects financed by the program (accumulated).	GWh	0.00	2018	P	0.00	28.03	84.10	154.18	238.27		238.27
					P(a)							
					A							

#### Details

**Means of verification:** Source: AR on program execution by BICE. Can be validated with information from national utility.

**Observations:** Final target was estimated based on an average production factor for RE technologies expected to be financed, namely biogas and biomass. Electricity prod (GWh) = Installed capacity (GW) x 24 x 365 x production factor The indicator shows the accumulated value for each year, and the target is equal to the sum of the five years of execution.

**Pro-Gender**

No

**Pro-Ethnicity**

No

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	EOP 2023
0.3	4. Average annual energy savings from EE projects financed by the program (accumulated).	MWh	0.00	2018	P	4,210.00	12,630.00	38,569.00	76,664.00	126,913.00		126,913.00
	4.1 Average annual energy savings from electricity-sourced EE projects financed.				P(a)							
	4.2 Average annual energy savings from fuel-sourced EE projects financed.				A							

#### Details

**Means of verification:** Source: AR on program execution by BICE.

**Observations:** Final target was estimated based on an average consumption of firms and savings ratios of EE technologies installed. Savings for fuel-sourced systems are estimated by converting Gal to MWh. Energy savings = Baseline energy consumption (MWh or Gal) x % savings produced by system installed The indicator shows the accumulated value for each year, and the target is equal to the sum of the five years of execution

**Pro-Gender** No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	EOP 2023
0.4	5. GHG emissions annual reduction, from projects financed by the program (accumulated).	tCO2e	0.00	2018	P	1,814.00	20,440.00	61,465.00	115,178.00	181,579.00		181,579.00
	5.1 GHG emissions annual reduction from RE projects financed.				P(a)							
	5.2 GHG emissions annual reduction from EE projects financed.				A							

#### Details

**Means of verification:** Source: AR on program execution by BICE and conversion factor specific to Argentina (included in periodical publications of CAMMESA).

**Observations:** Indicator is based on the CO2e emissions displaced by RE power generation added by the program and the energy savings (electricity and fuel) from EE projects financed. Final target was estimated based on envisaged RE production and EE savings, using a country specific conversion factor for electricity and fossil fuels (0.535 tCO2/MWh and 0.015 tCO2/Gal).

**Pro-Gender** No **Pro-Ethnicity** No

**RESULTS MATRIX****OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

Component Nbr. 1 Component 1: Access to medium and long-term finance

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2018	EOP 2023	2018	EOP 2023
1.1	Installed RE generation capacity financed by the program.	MW	P	0	34		
			P(a)	0	34		
			A		0		
1.2	Credit line used in SME EE projects	Millions US\$	P	0	40		
			P(a)	0	40		
			A		0		

### CHANGES TO THE MATRIX

No information available for this section

## PMR Operational Report

### IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories