Argentina Renewable Energy for Rural Areas Project (P133288)

**Key Dates**

**Key Project Dates**

- Bank Approval Date: 07-Apr-2015
- Effectiveness Date: 04-May-2016
- Planned Mid Term Review Date: 17-Apr-2019
- Actual Mid-Term Review Date: 09-May-2019
- Original Closing Date: 31-Oct-2020
- Revised Closing Date: 31-Oct-2020

**Project Development Objectives**

The project’s development objective is to provide and enhance access to modern energy services in selected rural areas of Argentina.

Has the Project Development Objective been changed since Board Approval of the Project Objective?
No

**Components**

<table>
<thead>
<tr>
<th>Name</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Renewable electricity service provision</td>
<td>$215.61 M</td>
</tr>
<tr>
<td>2. Solar thermal energy service provision</td>
<td>$9.67 M</td>
</tr>
<tr>
<td>3. Project deployment support</td>
<td>$6.71 M</td>
</tr>
<tr>
<td>4. Project management</td>
<td>$8.10 M</td>
</tr>
</tbody>
</table>

**Overall Ratings**

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of PDO</td>
<td>Moderately Unsatisfactory</td>
<td>Moderately Unsatisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>Moderately Unsatisfactory</td>
<td>Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
<td>Moderate</td>
<td>Substantial</td>
</tr>
</tbody>
</table>

**Implementation Status and Key Decisions**

Project implementation is moving forward. The PERMER team has started to implement a first set of activities included in the project design, and has signed Participation Agreements with 20 provinces.
More than 26,000 people in various provinces have received solar home systems. A Mid-term review was conducted during the mission, and the team took advantage of the mission to analyze the probability of fulfilling the Project’s objectives before the Closing Date. The Bank team and the GoA will closely monitor the issue and propose a course of action by the end of the year 2019.

### Risks

**Systematic Operations Risk-rating Tool**

<table>
<thead>
<tr>
<th>Risk Category</th>
<th>Rating at Approval</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political and Governance</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ High</td>
</tr>
<tr>
<td>Macroeconomic</td>
<td>□ Moderate</td>
<td>□ Substantial</td>
<td>□ High</td>
</tr>
<tr>
<td>Sector Strategies and Policies</td>
<td>□ Moderate</td>
<td>□ Substantial</td>
<td>□ Substantial</td>
</tr>
<tr>
<td>Technical Design of Project or Program</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Institutional Capacity for Implementation and Sustainability</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Fiduciary</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Environment and Social</td>
<td>□ Low</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Stakeholders</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
</tr>
<tr>
<td>Other</td>
<td>□ Moderate</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Overall</td>
<td>□ Moderate</td>
<td>□ Moderate</td>
<td>□ Substantial</td>
</tr>
</tbody>
</table>

### Results

**PDO Indicators by Objectives / Outcomes**

<table>
<thead>
<tr>
<th>Direct project beneficiaries (Number, Custom)</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>13,780.00</td>
<td>26,056.00</td>
<td>775,171.00</td>
</tr>
<tr>
<td>Comments:</td>
<td>- There have not yet been results on the sub-indicator &quot;Direct project beneficiaries that obtained enhanced access,&quot; (seen below) as the first minigrids tenders have only been released in September 2019</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Component: Direct project beneficiaries that obtained enhanced access (daily hours and quality of service) to modern energy services (electricity, water pumping, productive uses, solar thermal applications) (Number, Custom Breakdown)
### Direct project beneficiaries that obtained access to modern energy services (electricity, water pumping, productive uses, solar thermal applications) (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>105,323.00</td>
</tr>
<tr>
<td>Date</td>
<td>01-May-2015</td>
<td>14-Nov-2018</td>
<td>30-Apr-2019</td>
</tr>
</tbody>
</table>

### People provided with access to electricity by household connections

<table>
<thead>
<tr>
<th>People provided with access to electricity by household connections (Number, Corporate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>

### People provided with electricity by household connection–Offgrid/minigrid–Only renewable sources (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Ppl provided wth elec. by hhold conn.–Offgrid/minigrid–Only renewable sources (Number, Custom Breakdown)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>

### People provided with electricity by household connection–Offgrid/minigrid–Any source except only renewable (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Ppl pvd wth elec. by hhold conn.–Offgrid/minigrid–Any source except only renewable (Number, Custom Breakdown)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>

### Community electricity connections constructed under the project

<table>
<thead>
<tr>
<th>Community electricity connections constructed under the project (Number, Custom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
</tr>
<tr>
<td>----------------------------------</td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>
### People that obtain a daily and constant electricity service (through minigrids)

<table>
<thead>
<tr>
<th>People that obtain a daily and constant electricity service (through minigrids) (Number, Custom)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Baseline</strong></td>
</tr>
<tr>
<td>Value</td>
</tr>
<tr>
<td>Comments:</td>
</tr>
</tbody>
</table>

### People that obtain a daily and constant electricity service and with prior access to the service (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>People that obtain a daily and constant electricity service and with prior access to the service (Number, Custom Breakdown)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Baseline</strong></td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>

### People that obtain a daily and constant electricity service (through minigrids) and without prior access to the service (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>People that obtain a daily and constant electricity service (through minigrids) and without prior access to the service (Number, Custom Breakdown)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Baseline</strong></td>
</tr>
<tr>
<td>Value</td>
</tr>
</tbody>
</table>
Intermediate Results Indicators by Components

1 - Renewable electricity service provision: (Cost $215.61 M)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community electricity connections constructed under the project (schools) (Number, Custom)</td>
<td>0.00</td>
<td>0.00</td>
<td>3.00</td>
<td>1,670.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community electricity connections constructed under the project (other public facilities) (Number, Custom)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>309.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation Capacity of Hydropower constructed or rehabilitated under the project (Megawatt, Custom)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.64</td>
</tr>
</tbody>
</table>

Comments:
- The PIU has not yet finished defining the calculation methodology for indicators.

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation Capacity of Hydropower constructed under the project (Megawatt, Custom Breakdown)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation Capacity of Renewable Energy (other than hydropower) constructed (MW) (Megawatt, Custom)</td>
<td>0.00</td>
<td>0.45</td>
<td>1.30</td>
<td>14.75</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation Capacity of Renewable Energy constructed-Solar (MW) (Megawatt, Custom Breakdown)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Baseline</td>
<td>Actual (Previous)</td>
<td>Actual (Current)</td>
<td>End Target</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.45</td>
<td>1.30</td>
<td>14.57</td>
</tr>
</tbody>
</table>

Generation Capacity of Renewable Energy constructed – Wind (MW) (Megawatt, Custom Breakdown)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

People that obtained access to an electricity service for water pumping only (Number, Custom)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Micro-enterprises that obtained an electricity service under the project (Number, Custom)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Collective micro-enterprises that obtained an electricity service under the project (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Individual micro-enterprises that obtained an electricity service under the project (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Micro-enterprises supported under the project that increase their production (Percentage, Custom Supplement)

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

People that are satisfied with the benefits arising from obtaining access or an enhanced access to electricity through household connections (Percentage, Custom)
## Baseline vs. Actual vs. End Target

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>People satisfied with benefits arising from obtaining access or enhanced access to electricity through community connections</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>80.00</td>
</tr>
<tr>
<td>Comments: The PIU has not finished defining a measuring methodology for indicators.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 2. Solar thermal energy service provision: (Cost $9.67 M)

### People obtained access to thermal energy provision (modern spatial heating, cooking, and water heating) in public institutions (Number, Custom)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>88,209.00</td>
</tr>
</tbody>
</table>

### People obtained access to modern cooking appliances (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Date</td>
<td>01-May-2015</td>
<td>15-Nov-2018</td>
<td>30-Apr-2019</td>
<td>30-Apr-2020</td>
</tr>
</tbody>
</table>

### People obtained access to modern water heating systems (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>88,209.00</td>
</tr>
</tbody>
</table>

### People obtained access to modern spatial heating systems (Number, Custom Breakdown)

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Date</td>
<td>01-May-2015</td>
<td>15-Nov-2018</td>
<td>30-Apr-2019</td>
<td>30-Apr-2020</td>
</tr>
</tbody>
</table>
3 - Project deployment support: (Cost $6.71 M)

- Capacity building, outreach, and training activities implemented under the project (Number, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>4.00</td>
<td>6.00</td>
<td>70.00</td>
</tr>
</tbody>
</table>

- Clean energy studies and strategies supported under the project (Number, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>1.00</td>
<td>1.00</td>
<td>10.00</td>
</tr>
</tbody>
</table>

Comments: Study: Diagnosis of the state of PERMER I systems.

Data on Financial Performance

Disbursements (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Currency</th>
<th>Original</th>
<th>Revised</th>
<th>Cancelled</th>
<th>Disbursed</th>
<th>Undisbursed</th>
<th>% Disbursed</th>
</tr>
</thead>
<tbody>
<tr>
<td>P133288</td>
<td>IBRD-84840</td>
<td>Effective</td>
<td>USD</td>
<td>200.00</td>
<td>200.00</td>
<td>0.00</td>
<td>38.51</td>
<td>161.49</td>
<td>19%</td>
</tr>
</tbody>
</table>

Key Dates (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Orig. Closing Date</th>
<th>Rev. Closing Date</th>
</tr>
</thead>
</table>

Cumulative Disbursements
Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.