



Sindh Solar Energy Project (P159712)

SOUTH ASIA | Pakistan | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2018 | Seq No: 9 | ARCHIVED on 09-May-2022 | ISR50626 |

Implementing Agencies: Energy Department - Government of Sindh, Alternate Energy Development Board, Ministry of Economic Affairs, Ministry of Energy

Key Dates**Key Project Dates**

Bank Approval Date: 14-Jun-2018

Effectiveness Date: 09-Jan-2019

Planned Mid Term Review Date: 29-Apr-2022

Actual Mid-Term Review Date: 11-Mar-2022

Original Closing Date: 29-Sep-2023

Revised Closing Date: 29-Sep-2023

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Development Objective is to increase solar power generation and access to electricity in Sindh Province.

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

No

Components Table

Name

Component 1: Utility-Scale Solar:(Cost \$40.00 M)

Component 2: Distributed Solar:(Cost \$25.00 M)

Component 3: Solar Home Systems:(Cost \$30.00 M)

Component 4: Capacity Building and Technical Assistance:(Cost \$5.00 M)

PMU Costs:(Cost \$5.00 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 Unsatisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

The Project was approved by the World Bank's Board of Executive Directors on June 14, 2018 and became effective on January 9, 2019. The first disbursement (into the designated account) was made in September 2019, and notwithstanding significant delays in implementation (including as a result of the COVID-19 pandemic and related restrictions) the project has reported additional outcomes and results since the last project update in December 2021.

There is limited progress to report under Component 1, but the planning is now underway to develop the site in Jamshoro district which was approved under the Indicative Generation Capacity Expansion Plan (IGCEP) 2021-2030 for 50 MW of utility-scale solar, and a Memorandum of Understanding was signed in December 2021 between Sindh Energy Department (SED), K-Electric, and the World Bank to develop the remaining



350 MW of solar capacity targeted under the project. It is hoped that a competitive bidding process for one or more sites can commence during 2022.

The World Bank team is pleased to note the progress made by SED in the commissioning of 15 sites (6,045 MW) under Component 2 for the installation of solar power on the rooftops of public hospitals under the special COVID-19 response measures implemented since April 2020, with the remaining 20 sites due to be fully commissioned soon. Planning is now underway to proceed with a second round of procurement for further installation of solar power of at least 10 MW of capacity under the existing project design.

Under Component 3, sales and installations of solar home systems (SHS) in two pilot districts have commenced, with over 200 SHS sold by two different approved suppliers. It is hoped that sales will be accelerated over the upcoming summer period and now that the two Independent Verification Agent firms have been contracted to verify household eligibility and installations, but there is a shortage of stock in the country that may limit progress.

The rating for Overall Implementation Progress has been downgraded from "Moderately Satisfactory" to "Moderately Unsatisfactory" due to a number of previously identified issues that remain outstanding and the slow rate of disbursement under the project. The rating for progress towards the achievement of the Project Development Objective is maintained at "Moderately Satisfactory", reflecting the reasonable likelihood that most or all of the project's desired results can be achieved with minor deviations if implementation is accelerated. However, strong implementation progress is required over the coming calendar year to capitalize on recent developments and put the project on track to achieve its targeted results.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Increase solar power generation in Sindh Province

► Generation capacity of energy constructed or rehabilitated (Megawatt, Corporate)

Baseline

Actual (Previous)

Actual (Current)

End Target



Value	0.00	3.92	6.04	420.00
Date	14-May-2018	24-Nov-2021	03-May-2022	31-Dec-2024
<input type="checkbox"/> Renewable energy generation capacity (other than hydropower) constructed under the project (Megawatt, Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3.90	6.04	420.00
Date	14-May-2018	24-Nov-2021	18-Apr-2022	31-Dec-2024
<input type="checkbox"/> Utility-scale solar power generation capacity constructed under the project (Megawatt, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	400.00
Date	14-May-2018	19-Nov-2020	03-May-2022	31-Dec-2024
<input type="checkbox"/> Distributed solar power generation capacity constructed under the project (Megawatt, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3.90	6.04	20.00
Date	14-May-2018	24-Nov-2021	18-Apr-2022	31-Dec-2024

Increase access to electricity in Sindh Province				
► People provided with new or improved electricity service (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,212.00	1,212.00	1,200,000.00
Date	14-May-2018	19-Nov-2020	29-Apr-2022	29-Dec-2023
<input type="checkbox"/> People provided with access to electricity under the project by household connections (grid or off-grid). (Number, Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,212.00	1,212.00	1,200,000.00
Date	14-May-2018	24-Nov-2021	29-Apr-2022	29-Dec-2023

Intermediate Results Indicators by Components

Component 1: Utility-Scale Solar



► Completion of competitive bidding process for awarding the first 50 MW sub-project (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	14-May-2018	26-Nov-2021	29-Apr-2022	31-Dec-2019
► Private capital mobilized (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	273,500,000.00
Date	14-May-2018	26-Nov-2021	29-Apr-2022	29-Dec-2023

Component 2: Distributed Solar				
► Identification of at least 1 MW of distributed solar PV and competitive bidding completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	14-May-2018	26-Nov-2021	26-Nov-2021	31-Dec-2019
► Number of priority healthcare facilities to receive solar installations under COVID-19 emergency response (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	31.00	34.00	35.00
Date	01-Apr-2020	26-Nov-2021	29-Apr-2022	29-Oct-2021
Comments:	In response to the COVID-19 pandemic the Bank team worked with the client to utilize Component 2 for installation of solar power priority healthcare facilities using an emergency procurement approach. This indicator measures the number of sites for which contracts have been awarded.			

Component 3: Solar Home Systems				
► Female-headed households provided with solar home systems (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	82.00	82.00	4,000.00
Date	14-May-2018	24-Nov-2021	29-Apr-2022	29-Dec-2023
► Social Audit conducted at mid-term and results incorporated into project (Yes/No, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	14-May-2018	26-Nov-2021	29-Apr-2022	31-Dec-2020
Comments:	The Social Audit is delayed and will take place after the Mid-Term Review since the field activities have not yet started. The Project Implementation Unit is in the process of developing the methodology for the social audit.			

Component 4: Capacity Building and Technical Assistance

► Consumer Advocate added to Project Steering Committee (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	14-May-2018	26-May-2021	29-Apr-2022	31-Dec-2019
Comments:	The previous Consumer Advocate was replaced by a new individual, who is now in place and is being inducted by the PMU.			

► Female and/or disabled staff within the PMU (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	15.00
Date	14-May-2018	26-Nov-2021	29-Apr-2022	29-Dec-2023
Comments:	The Interim PMU has six staff appointed, of which one is female.			

► Training event for women and/or disabled people held (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	14-May-2018	26-Nov-2021	29-Apr-2022	31-Dec-2020

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
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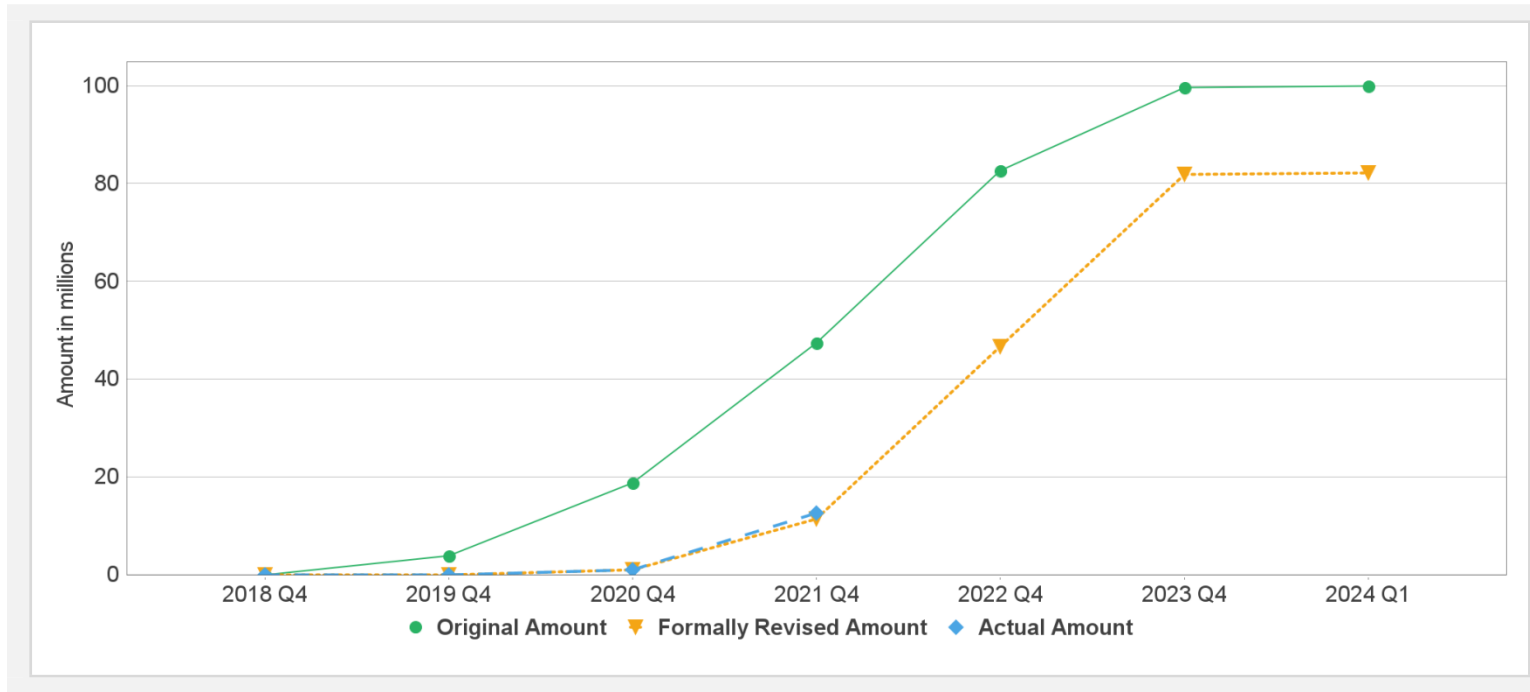


P159712	IDA-62580	Effective	USD	100.00	100.00	0.00	16.13	81.20	<div style="width: 17%; height: 10px; background-color: #28a745;"></div>	17%
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Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P159712	IDA-62580	Effective	14-Jun-2018	09-Jan-2019	09-Jan-2019	29-Sep-2023	29-Sep-2023

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.