



Grid-Connected Rooftop Solar Program (P155007)

SOUTH ASIA | India | Energy & Extractives Global Practice | Requesting Unit: SACIN | Responsible Unit: GEE06
IBRD/IDA | Program-for-Results | FY 2016 | Team Leader(s): Simon J. Stolp, Amit Jain, Mani Khurana

Seq No: 4 | ARCHIVED on 22-Jun-2018 | ISR32021 | Created by: Shalini Agrawal on 29-Mar-2018 | Modified by: Shalini Agrawal on 20-Jun-2018

Program Development Objectives

Program Development Objective (from Program Appraisal Document)

The PDO is to increase installed capacity of Grid-connected Rooftop Solar Photovoltaic (GRPV) and to strengthen the capacity of relevant institutions for GRPV. The Program Environmental Objective (PEO) is to achieve reductions in GHG emissions through the displacement of thermal energy with solar energy.

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Satisfactory	● Satisfactory
Overall Implementation Progress (IP)	● Satisfactory	● Satisfactory

Implementation Status and Key Decisions

SBI has so far sanctioned projects with aggregate credit facilities of US \$315 Million (this does not include in principal approvals) under the program, which would add 600+ MW of solar rooftop capacity to the grid. The mission sought details of all loans sanctioned under the GRPV program and details of pipeline projects. Further, the mission has sought the details of expected disbursement under the GRPV program with tentative timeline.

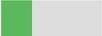
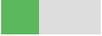






Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P155007	IBRD-86110	Effective	USD	500.00	500.00	0.00	154.74	345.26	 31%
P155007	TF-A2023	Effective	USD	5.00	5.00	0.00	5.00	0.00	 100%
P155007	TF-A2401	Effective	USD	120.00	120.00	0.00	45.83	74.17	 38%
P160018	TF-A3753	Effective	USD	22.94	22.94	0.00	8.67	14.27	 38%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date

Program Action Plan

Action Description	Monitor compliance with MNRE's Quality Assurance and Quality Control requirements, as basic standards applicable to the market.				
Responsibility	Recurrent	Frequency	Due Date	DLI#	Status
Client	No		31-Dec-2019		Not Yet Due
Comments					

Action Description	Include the Grid Connected Solar Rooftop Program in the existing complaints handling mechanism of SBI.				
Responsibility	Recurrent	Frequency	Due Date	DLI#	Status
Client	No		02-Apr-2018		Completed
Comments					

Action Description	Implement the procedures identified in the ESSA to manage environmental and social issues and risks.				
Responsibility	Recurrent	Frequency	Due Date	DLI#	Status
Client	No		31-Dec-2019		Not Yet Due
Comments					



Risks

Systematic Operations Risk-rating Tool

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

Comments

SBI has established a solar rooftop team and has sanctioned \$315 m projects. More than 60 MW projects has already been commissioned. With this experience, overall risk rating of the project has been revised to Moderate.

Results

PDO Indicators by Objectives / Outcomes

Capacity of GRPV connected to the grid (Megawatt, Custom)				
▶ Capacity of GRPV connected to the grid (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	60.00	250.00
Date	30-Sep-2016	--	05-Apr-2018	30-Nov-2021

Reduction of Carbon emissions				
▶ GHG emissions (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	--	0.00	1,200.00
Date	19-Sep-2016	--	05-Apr-2018	30-Nov-2021

Intermediate Results Indicators by Results Areas

Launch of Rooftop Solar PV program at SBI and development of internal procedures for the identification, risk assessment, appraisal and approval of rooftop solar projects.				
▶Launch of Rooftop Solar PV program at SBI and development of internal procedures for the identification, risk assessment, appraisal and approval of rooftop solar projects (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	Done	Done	One time
Date	13-May-2016	21-Jul-2016	21-Jul-2016	30-Nov-2021

Implementation of TA and capacity building program for discoms, SNAs, SERCs etc.				
▶Implementation of TA and capacity building program for discoms, SNAs, SERCs etc. (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	Consultants hired and Business plan submitted	Consultants hired and Business plan submitted	TA completed
Date	13-May-2016	30-Nov-2017	30-Nov-2017	30-Nov-2021

Amount rooftop solar loans approved by SBI				
▶Amount rooftop solar loans approved by SBI (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	356.00	315,000,000.00	625,000,000.00
Date	13-May-2016	30-Nov-2017	30-Nov-2017	30-Nov-2021

Amount of additional equity financing from private sources mobilized by SBI				
▶Amount of additional equity financing from private sources mobilized by SBI (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	80.00	100,000,000.00	265.00
Date	13-May-2016	30-Nov-2017	30-Nov-2017	30-Nov-2021



--

Capacity (MW) of GRPV orders				
▶Capacity (MW) of GRPV orders (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	575.00	575.00	600.00
Date	13-May-2016	30-Nov-2017	30-Nov-2017	30-Nov-2021

Phase 2 of SBI's Rooftop Solar PV program launched				
▶Phase 2 of SBI's Rooftop Solar PV program launched (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	Not yet due	Not yet due	Completed
Date	13-May-2016	30-Nov-2017	30-Nov-2017	30-Nov-2021

Capacity of rooftop solar installed and commissioned under the program (MW)				
▶Capacity of rooftop solar installed and commissioned under the program (MW) (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	40.00	60.00	500.00
Date	13-May-2016	30-Nov-2017	30-Nov-2017	30-Nov-2021

Disbursement Linked Indicators

▶DLI DLI 1: Establishing a Rooftop Solar PV Program at the State Bank of India. (Intermediate Outcome, 5,000,000.00, 100%)				
	Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021
Value	0.00	--	5,000,000.00	--
Date	13-May-2016	--	05-Apr-2018	--
Comments				

▶DLI DLI 2: Technical assistance to key stakeholders for the implementation of MNRE's GRPV program (Intermediate Outcome, 13,000,000.00, 67%)				
---	--	--	--	--



	Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021
Value	0.00	--	13,000,000.00	--
Date	13-May-2016	--	09-Aug-2017	--
Comments				

►DLI DL3: Aggregate amounts of loans signed by SBI for the financing of solar (PV) rooftop power generation schemes. (Intermediate Outcome, 298,750,000.00, 7%)

	Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021
Value	0.00	--	21,760,000.00	--
Date	13-May-2016	--	05-Apr-2018	--
Comments				

►DLI DLI 4: Piloting new business models (Outcome, 10,000,000.00, 0%)

	Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021
Value	0.00	--	0.00	--
Date	13-May-2016	--	--	--
Comments				

►DLI DLI 5: Megawatts of solar (PV) rooftop power generation installed and commissioned under SBI financing (Output, 300,000,000.00, 8%)

	Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021
Value	0.00	--	22,560,000.00	--
Date	13-May-2016	--	05-Apr-2018	--
Comments				

►DLI DLI 6: Sustainability of GRPV program (Outcome, 20,000,000.00, 0%)

	Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021
Value	0.00	--	0.00	--



Date	13-May-2016	--	05-Apr-2018	--
Comments				