Public Disclosure Authorized

Grid-Connected Rooftop Solar Program (P155007)

SOUTH ASIA | India | Energy & Extractives Global Practice | Requesting Unit: SACIN | Responsible Unit: ISAE1 | IBRD/IDA | Program-for-Results Financing | FY 2016 | Team Leader(s): Amit Jain, Mani Khurana

Seq No: 12 | ARCHIVED on 26-Apr-2022 | ISR50634 | Created by: Shalini Agrawal on 14-Mar-2022 | Modified by: Shalini Agrawal on 14-Apr-2022

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	□Highly Satisfactory	□ Highly Satisfactory
Overall Implementation Progress (IP)	□Satisfactory	Satisfactory

Implementation Status and Key Decisions

Between July 1, 2022 and March 31, 2022, State Bank of India (SBI) has sanctioned \$90.7 million of loans to the solar rooftop developers and end-consumers, directly mobilizing \$38.84 million of equity. Since the launch of the Program, cumulatively, SBI has sanctioned \$417 million of loans mobilizing \$178.6 million equity from private sources and signing 606.48 MW of GRPV orders.

The technical assistance (TA) program is engaging with the distribution utilities in 17 states for implementing the Government of India Phase-II of the grid-connected rooftop solar scheme, which targets 4000 MW of rooftop solar capacity addition in the residential sector by December 31, 2022. The TA program is supporting the states on several aspects:

- Digitalizing the rooftop solar application and subsidy processes,
- Bid process management,
- Demand aggregation for both the residential sector and solarization of government buildings,
- Devising innovative business models
- Capacity building, among others

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	500.00	0.00		100%
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	100.00	20.00		83%
P160018	TF-A3753	Effective	USD	22.94	22.94	0.00	18.67	4.27		81%

4/26/2022 Page 1 of 7

Key Dates (I	by Ioan)						
Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P155007	IBRD-86110	Effective	13-May-2016	30-Jun-2016	28-Sep-2016	30-Nov-2021	30-Nov-2022
P155007	TF-A2023	Effective	13-May-2016	30-Jun-2016	28-Sep-2016	30-Nov-2021	30-Nov-2022
P155007	TF-A2401	Effective	13-May-2016	30-Jun-2016	28-Sep-2016	30-Nov-2021	30-Nov-2022
P160018	TF-A3753	Effective	19-Jan-2017	19-Jan-2017	19-Jan-2017	30-Nov-2021	30-Nov-2022

DLI Disbursement

DLI ID	DLI Type	Description	Coc	DLI Amount	Achievement Status	Disbursed amount in Coc	Disbursemer DLI	nt % for
Loan: Ti	FA2023-001							
1	Regular	Establishing GRPVs program at SBI	USD	5,000,000.00	Fully Achieved	5,000,000.00		100 %
Loan: IB	RD86110-001							
2	Regular	Agg amt loan for GRPVs power gen sch	USD	198,750,000.00	Partially Achieved	102,293,000.00		51 %
3	Regular	MW solar PV rroftop ins commi	USD	300,000,000.00	Partially Achieved	271,456,750.00		90 %
Loan: Ti	FA2401-001							
2	Regular	Aggr amt for finan GRPV power gen sch	USD	100,000,000.00	Partially Achieved	70,000,000.00		70 %
4	Regular	Sustainability of GRPV program	USD	20,000,000.00	Not Achieved	0.00		
Loan: Ti	FA3753-001							
1	Regular	Tech assis for impl MNRE GRPV prg	USD	12,935,780.00	Partially Achieved	2,936,000.00		23 %
2	Regular	Piloting New Business Models	USD	10,000,000.00	Fully Achieved	10,000,000.00		100 %

Program Action Plan

Action Description	Monitor compliance with MNRE's Quality Assurance and Quality Control requirements, as basic standards applicable to the market.							
Source	DLI#	DLI# Responsibility Timing Timing Value Status						
Other		Client	Due Date	31-Dec-2019	Completed			
Completion Measurement	1711	SBI to (i) prepare and share report on the implementation of MNRE's QA/QC requirements with Bank during the midterm review of the project; and (ii) share the report with MNRE						
Comments		In all the loan agreements between SBI and sub-borrower, there is standard clause for the borrower to ensure the quality standards established by MNRE/GoI.						

4/26/2022 Page 2 of 7

Action Description	Include the Grid Connected Solar Rooftop Program in the existing complaints handling mechanism of SBI.							
Source	DLI# Responsibility Timing Timing Value Status							
Other		Client	Due Date	02-Apr-2018	Completed			
Completion Measurement	Information on how to access the grievance mechanism for Grid Connected Solar Rooftop Program publicized on SBI's website							
Comments								

Action Description	Implement the procedures identified in the ESSA to manage environmental and social issues and risks.								
Source	DLI# Responsibility Timing Timing Value Status								
Environmental and Social Systems		Client	Due Date	30-Nov-2022	In Progress				
Completion Measurement	SBI to share informat	SBI to share information with Bank during the first review mission of the program							
Comments	SBI has shared some information, however it is identified that the reporting of ESSA requirements need to be strengthened – to be confirmed through mutually agreed actions.								

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	□Moderate	Moderate
Institutional Capacity for Implementation and Sustainability	□Moderate	□Moderate	□Moderate
Fiduciary	□Moderate	□Moderate	Moderate
Environment and Social	□Moderate	□Moderate	Moderate
Stakeholders	Substantial	□Moderate	Moderate
Other		□Moderate	Moderate
Overall	Substantial	□Moderate	□Moderate

Results

4/26/2022 Page 3 of 7

PDO Indicators by Objectives / Outcomes

pacity of GRPV cor	nnected to the grid (Megawatt, Cust	om)		
➤ Capacity of GRP\	/ connected to the grid (Megawatt,	Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	322.66	365.51	250.00
Date	30-Sep-2016	30-Jun-2021	31-Mar-2022	30-Nov-2022
Comments				
eduction of Carbon of	emissions Fones/year, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,200.00
			23-Mar-2022	20 Nov 2022
Date	19-Sep-2016	30-Jun-2021	23-Iviai-2022	30-Nov-2022

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-2022
Comments				

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)

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	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	work ongoing in 17 States on demand aggregation, policy and regulatory matter	work ongoing in 17 States on demand aggregation, policy and regulatory matter	TA completed
Date	13-May-2016	30-Jun-2021	31-Mar-2022	30-Nov-2022

4/26/2022 Page 4 of 7

Comments

Amount rooftop solar loans approved by SBI ► Amount rooftop solar loans approved by SBI (Amount(USD), Custom) Baseline Actual (Previous) Actual (Current) **End Target** 326,300,000.00 625,000,000.00 Value 0.00 417,000,000.00 13-May-2016 30-Jun-2021 31-Mar-2022 30-Nov-2022 Date Comments

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	139.76	178,600,000.00	265,000,000.00				
Date	13-May-2016	30-Jun-2021	23-Mar-2022	30-Nov-2022				
Comments								

Capacity (MW) of GRPV orders						
► Capacity (MW) of GRPV orders (Megawatt, Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	606.48	606.48	600.00		
Date	13-May-2016	30-Jun-2021	31-Mar-2022	30-Nov-2022		
Comments						

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	02-Dec-2020	31-Mar-2022	30-Nov-2022		
Comments						

4/26/2022 Page 5 of 7

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	322.67	365.51	500.00		
Date	13-May-2016	30-Jun-2021	31-Mar-2022	30-Nov-2022		
Comments						

Disbursement Linked Indicators

►DLI 1 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	5,000,000.00	5,000,000.00	
Date	13-May-2016	30-Jun-2021	31-Mar-2022		
Comments					

▶DLI 2 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	8,670,000.00	8,670,000.00	13,000,000.00		
Date	13-May-2016	30-Jun-2021	31-Mar-2022			
Comments						

DLI 3 DL3: Aggregate amounts of loans signed by SBI for the financing of solar (PV) rooftop power generation schemes. (Intermediate Outcome, 298,750,000.00, 0%) Baseline Actual (Previous) Actual (Current) till Nov 30, 2021 Value 0.00 205,710,000.00 251,969,000.00 298,750,000.00 Date 13-May-2016 30-Jun-2021 31-Mar-2022 - Comments

▶DLI 4 DLI 4: Piloting new business models (Outcome, 10,000,000.00, 0%)				
Baseline	Actual (Previous)	Actual (Current)	till Nov 30, 2021	

4/26/2022 Page 6 of 7

Value	0.00	10,000,000.00	10,000,000.00	10,000,000.00
Date	13-May-2016	30-Jun-2021	31-Mar-2022	
Comments				

▶ DLI 5 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	316,990,000.00	346,450,000.00	300,000,000.00	
Date	13-May-2016	30-Jun-2021	31-Mar-2022		
Comments					

▶DLI 6 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	0.00	20,000,000.00	
Date	13-May-2016	30-Jun-2021	31-Mar-2022		
Comments					

4/26/2022 Page 7 of 7