

Maldives : Maldives Solar Power Development and Energy Storage Solution

Project Information					
Project ID:	P000377	Instrument ID:	L0377A		
Member:	Maldives	Region:	Southern Asia		
Sector:	Energy	Sub-sector:	Renewable energy generation- solar		
Instrument type:	⊠Loan:20.00 USD million □Guarantee	Co-financier(s):	International Development Association, World Bank Group		
ES category:	В	Borrower:	Republic of Maldives		
Implementing Entity:	Ministry of Environment, Maldiv	es			
Project Team Leader:	Amit Kumar				
Project Team Members:	Gerardo Pio Parco, OSD - Environment & Social Development Specialist; Bernardita Saez, Project Counsel; Aditi Khosla, Alternate Counsel; Rui Xiang, OSD - Financial Management Specialist; Yangzom Yangzom, OSD - Procurement Specialist;				
Completed Site Visits by AlIB:					
Planned Site Visits by AllB:	Apr, 2022 Tentatively planned for Q2 2022				
Current Red Flags Assigned:	0				
Current Monitoring Regime:	Regular Monitoring 0 2021 Q2				
Previous Red Flags Assigned:					
Previous Red Flags Assigned Date:					

2. Project Summary and Objectives

Project Summary: The project involves the development of a 36-megawatt (MW) solar power project and 50 megawatt hours (MWh) of battery energy storage solutions across various selected islands in the Maldives. The project also involves grid modernization to integrate variable renewable energy with the grid, which will be financed under the AIIB loan.

The project comprises the following components:

Component 1. Solar Photovoltaic (PV) Risk Mitigation Component 2. Battery Energy Storage System (BESS) Component 3. Grid Modernization for Variable Renewable Energy (VRE) Integration Component 4. Technical Assistance

Project Objective: To increase generation capacity from renewable energy sources and to facilitate the integration of renewable energy into the grid infrastructure of Maldives

3. Key Dates

Approval:	Feb. 25, 2021	Signing:	Mar. 17, 2021
Effective:	Jun. 16, 2021	Restructured (if any):	
Orig. Closing:	Oct. 31, 2025	Rev. Closing (if any):	



Contract Awarded:		Cancellation (if any):	0.00		
		Most recent			
Disbursed:	0.00	disbursement	0.00/Jun. 30, 2022		
		(amount/date):			
Undisbursed:	20.00	Disbursement Ratio	0.00		
onuispuiseu.	20.00	(%) ¹ :	0.00		

4. Disbursement Summary (USD million)

5. Project Implementation Update

No contracts awarded until now.

Components	Physical Progress	Environmental & Social Compliance	Procurement	Financial Management
Component 1. Solar	Bids for 10MW	In compliance	- 10 MW	The Project
, Photovoltaic (PV) Risk	floating PV are		Floating PV (FPV)	Management Unit
Mitigation	underway and		PQ evaluation	(PMU) under the
0	expected to be		process was	Ministry of
	finalized in Q1		completed during	Environment,
	2022. Additionally,		May 2021.	Climate Change,
	bidding document		- WB hired	and Technology
	preparation is in		FPV consultant is	for the ASPIRE
	progress for 11-14		working on	project (previous
	MW solar PV		detailed site	World Bank
	projects.		assessments since	project) shall
	[]		July 2021. The	continue to
			wave and current	function as the
			assessment	PMU for the
			devices were	project. The
			installed at the	planning,
			floating PV site of	budgeting, funds
			Hulhumeedhoo	flow, accounting,
			during August	reporting, interna
			2021 and the first	controls, and aud
			data was	arrangements
			downloaded	shall be aligned
			successfully during	with the
			January 2022. The	government's
			first measurement	system. The PMU
			campaign report is	prepared the
			expected to be	annual work plan
			submitted in Feb	and budget for th
			2022. The	year 2021-2022
			technical	and was shared
			requirement for	with WB during
			FPV bid is	August 2022. The
			expected to be	PMU is staffed
			submitted by	with a project
		1	Submitted by	

¹Disbursement Ratio is defined as the volume (e.g. the dollar amount) of total disbursed amount as a percentage of the net committed volume.



			Eab/March 2022	diractor
			Feb/March 2022. - In addition,	director,
			- In addition, MECCT hired a	procurement management
			Consultant to fill	specialist,
			the gaps in FPV	environment and
			Consultant	social safeguards
			contract during	specialist,
			November 2021 to	communications
			carry out existing	specialist,
			environment	monitoring and
			surveys at the	evaluation
			floating PV site	specialist,
			locations and this	sustainable energy
			consultancy has	specialist, and
			been concluded	senior energy
			with the data	specialist.
			successfully	
			collected.	
			- 11-14 MW	
			PV sub-project (L.	
			Atoll, Lh. Naifaru,	
			GA. Villingili & Sh.	
			Funadhoo) PQ	
			applications were	
			opened during	
			September 2021	
			and the evaluation	
			report has been	
			submitted to	
			National Tender	
			Board for their	
			approval during	
			December 2021.	
			The process is	
			expected to be	
			complete during	
			January 2022.	
			- MECCT hired	
			GSES to conduct	
			Helioscope	
			assessments for	
			the solar PV	
			installation sites of	
			11-14MW during	
			November 2021	
			and the reports have been	
			submitted during	
			December 2021.	
			The bidding	
			document	
			preparation is	
			ongoing.	
Component 2. Battery	Technical	in compliance	- 40 MW/40	
Energy Storage System	I waa wutaa waa a waa ƙaw	1		1
Energy storage system	requirements for the 40MWh		MWh BESS PQ was published during	



	battery storage		June 2021.	
	have been		- The	
	completed. The		Environmental and	
	bid results are		Social Code of	
	expected to be		Practice for	
	finalized in Q1		Battery Energy	
	2022.		Storage System	
			was prepared and	
			approved by WB	
			and AllB during	
			September 2021.	
			- The	
			environmental	
			screening	
			requirement of	
			WB and EPA of all	
			sites for this	
			component has	
			been completed.	
			- The	
			evaluation of PQ	
			applicants has	
			been completed	
			during December	
			2021 and is	
			pending approval from National	
			Tender Board.	
			- The Techno-	
			economic	
			assessment report	
			was submitted by	
			Entura in	
			November 2021.	
			The technical	
			requirements of	
			the BESS bidding	
			document have	
			been completed	
			and the final	
			document is to be	
			sent to WB for	
			clearance by	
			January 2022.	
Component 3. Grid	The bidding	in compliance	- The technical	
Modernization for	document for the		requirements of	
Variable Renewable	grid modernization		the bidding	
Energy (VRE) Integration	component is		document have	
- 0, (expected to be		been finalized and	
	finalized by March		the final document	
	2022.		review process is	
			ongoing. It is	
			expected to be	
			sent for clearance	
			sent for clearance	



			by January 2022. - The environmental and Social Code of Practice for this component was shared with WB and AIIB during November 2021 and has been approved by WB. - The environmental screening requirement of WB and EPA of all sites for this component has been completed. - The environmental screening requirement of WB and EPA of all sites for this component has been completed. - The environmental screening requirement of WB and EPA of all sites for this component has been completed.	
Component 4. Technical Assistance	The owner's engineer is finalized and onboarded to support the preparation of components 2 and 3.	in compliance	 MECCT has hired the owner's engineer to support BESS and grid modernization component. MECCT has initiated the process of hiring a Financial Management Officer and the process is expected to be completed during January 2022. PMU was re- structured and all the consultants have been transferred from ASPIRE to ARISE. 	

6. Status of the Grievance Redress Mechanism (GRM)

The GRM for the project has been formulated and included in the project safeguards documents including Stakeholder Engagement Plan (SEP), Environmental and Social Management Framework (ESMF), and Environmental



and Social Commitment Plan (ESCP). As per project safeguards documents, prior to implementation of any physical activities, GRM details will be displayed on the project sites, moreover, this information will be made available physically and through the website of the Ministry and the council.

7. Results Monitoring

It is too early for actual results with no physical progress. The development objective of the Project is to increase generation capacity from renewable energy sources and to facilitate the integration of renewable energy into the grid infrastructure of Maldives.

Project Objective Indicators #1

I. Renewable energy generation capacity constructed or rehabilitated under the project (MW).

Year	Target	Actual	Comments, if any
Dec. 31, 2025	36	0	Awarding of solar PV projects under bidding
		0	process

Project Objective Indicators #2

Private capital mobilized (USD Million)

Year	Target	Actual	Comments, if any
Dec. 31, 2025	45	0	Awarding of solar PV projects under bidding
		0	process

Project Objective Indicators #3

Electrical transmission and distribution lines constructed (medium- and low-voltage) and/or rehabilitated (in km)

Year	Target	Actual	Comments, if any
Dec. 31, 2025	100	0	Implementation of grid up-gradation is expected
		0	to start later in 1Q 2022.

Project Objective Indicators #4

Annual greenhouse gas (GHG) emission reduction (metric tons of CO2)

Year		Target	Actual	Comments, if any
Dec. 31, 202	5	33500	0	No physical progress

Project Objective Indicators #5

Installed capacity of BESS (MWh)

Year	Target	Actual	Comments, if any
Dec. 31, 2025	50	0	under bidding process

Intermediate Result Indicators #1



1. Number of new renewable energy jobs created for women

Year	Target	Actual	Comments, if any
Dec. 31, 2025	12	0	Jobs creation shall happen closer to project
			commissioning in 2023

Intermediate Result Indicators #2

2. Number of women entering project-funded renewable energy job training

Year	Target	Actual	Comments, if any
Dec. 31, 2025	22	0	Jobs creation shall happen closer to project
			commissioning in 2023

Remarks:

The Project components are at different stages of preparation and bid tendering. Progress on the procurement part for each component is updated above in section 7 to reflect the current status.