



## Morocco: Noor Solar Power Project (P131256)

MIDDLE EAST AND NORTH AFRICA | Morocco | Energy & Extractives Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 12 | ARCHIVED on 25-May-2021 | ISR46494 |

Implementing Agencies: MASEN, MASEN

## Key Dates

### Key Project Dates

Bank Approval Date: 30-Sep-2014

Effectiveness Date: 05-May-2015

Planned Mid Term Review Date: 30-Jun-2022

Actual Mid-Term Review Date:

Original Closing Date: 30-Jun-2020

Revised Closing Date: 28-Jun-2024

## Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The PDO is to increase (a) installed capacity (megawatt) and (b) electricity output (megawatt-hour), especially during peak hours, of the Noor-Ouarzazate Solar Complex.

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

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

The PDO is to increase innovative solar power generation in Morocco.

## Components Table

Name

Financing the Initial Investment:(Cost \$2377.00 M)

Cost Mitigation Mechanism:(Cost \$199.00 M)

Noor Midelt Power Plants and Associated Infrastructure Facilities:(Cost \$1600.00 M)

## Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial

## Implementation Status and Key Decisions

The project is generally progressing satisfactorily towards project development objectives and implementation, although with some delays in the case of Noor Midelt plants.

### Noor Ouarzazate

The Noor Ouarzazate Concentrated Solar Complex, comprised of three plants, has been fully operational since October 2018. The overall complex reached a total generation of 1130 GWh in 2020 and provides reliable and sustainable power to approximately 1 million people in Morocco. The



project reached a satisfactory 80 percent of expected energy generation in 2020, and on site workforce for the three plants has reached 239 (100 percent local, and 10 percent women).

**Noor Midelt Plants**

As part of the additional financing, the closing date was extended from December 2022 to June 2024. Noor Midelt I plant is expected to reach financial close by the end of June 2021, whereas Noor Midelt II Plant is being rebid under revised technical specifications to achieve better value for money but the selection process of private sector developers has been stalled since the beginning of the Covid19 epidemic. As a result, and taking into consideration the current pandemic, the Mid-term Review is expected to be implemented by mid-2022.

**Risks**

**Systematic Operations Risk-rating Tool**

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
Macroeconomic	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Sector Strategies and Policies	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Technical Design of Project or Program	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Institutional Capacity for Implementation and Sustainability	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Fiduciary	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Environment and Social	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Stakeholders	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial
Other	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Overall	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial

**Results**

**PDO Indicators by Objectives / Outcomes**

Increase innovative solar power generation in Morocco				
▶ Noor Solar Projects Electricity Sales (GWh) (Gigawatt-hour (GWh), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	599.00	1,130.00	2,624.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
Comments:	Annual basis (end December each year)			



<input type="checkbox"/> Noor Solar Projects Electricity Sales – Ouarzazate Complex (GWh) (Gigawatt-hour (GWh), Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	599.00	1,130.00	1,300.00
Date	31-Dec-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
<input type="checkbox"/> Noor Solar Projects Electricity Sales – Midelt Complex (GWh) (Gigawatt-hour (GWh), Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,324.00
Date	30-Nov-2017	30-Jun-2020	31-Mar-2021	28-Jun-2024
<b>► Noor Solar Projects Electricity Sales during peak hours (GWh) (Gigawatt-hour (GWh), Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	170.00	317.00	870.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
<input type="checkbox"/> Noor Solar Projects Electricity Sales during peak hours – Ouarzazate Complex (GWh) (Gigawatt-hour (GWh), Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	170.00	317.00	540.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
<input type="checkbox"/> Noor Solar Projects Electricity Sales during peak hours – Midelt Complex (GWh) (Gigawatt-hour (GWh), Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	330.00
Date	13-Nov-2017	30-Jun-2020	31-Mar-2021	28-Jun-2024
<b>► People provided with new or improved electricity service (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	520,403.00	982,360.00	2,200,000.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
<input type="checkbox"/> Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	50.30	50.30	50.30



▶ Avoided global GHG pollution (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	362,307.00	674,040.00	1,270,000.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024

### Intermediate Results Indicators by Components

Component 1- Financing for the Initial Investment				
▶ Private Capital Mobilized (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	413,000,000.00	413,000,000.00	597,000,000.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
▶ Generation capacity of energy constructed or rehabilitated (Megawatt, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	510.00	510.00	1,310.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
□ Renewable energy generation capacity (other than hydropower) constructed under the project (Megawatt, Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	510.00	510.00	1,310.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
□ Noor Ouarzazate I Capacity constructed (Megawatt, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	160.00	160.00	160.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
□ Noor Ouarzazate II and III Capacity constructed (Megawatt, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	350.00	350.00	350.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024



□ Noor Midelt Phase I Capacity constructed (Megawatt, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	800.00
Date	13-Nov-2017	30-Jun-2020	31-Mar-2021	28-Jun-2024
▶ Grievances registered related to delivery of project benefits addressed (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	23-Nov-2017	30-Jun-2020	31-Mar-2021	28-Jun-2024
▶ Share of female job-recruits receiving information on training and skilled work in the Noor Midelt Phase I project (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	75.00
Date	18-Apr-2018	30-Jun-2020	31-Mar-2021	28-Jun-2024
▶ Number of hired workers on the Noor Midelt site (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,200.00
Date	18-Apr-2018	30-Jun-2020	31-Mar-2021	28-Jun-2024
□ of which female (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	120.00

Component 2- Cost Mitigation Mechanism				
▶ Progress of Overall Construction - Noor Ouarzazate II (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	13-Nov-2017	30-Jun-2020	31-Mar-2021	28-Jun-2024
▶ Progress of Overall Construction - Noor Ouarzazate III (Percentage, Custom)				


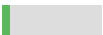




	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	30-Jun-2014	30-Jun-2020	31-Mar-2021	28-Jun-2024
<b>► Progress of Overall Construction - Noor Midelt Phase I (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	13-Nov-2017	30-Jun-2020	31-Mar-2021	28-Jun-2024

### Performance-Based Conditions

#### Data on Financial Performance

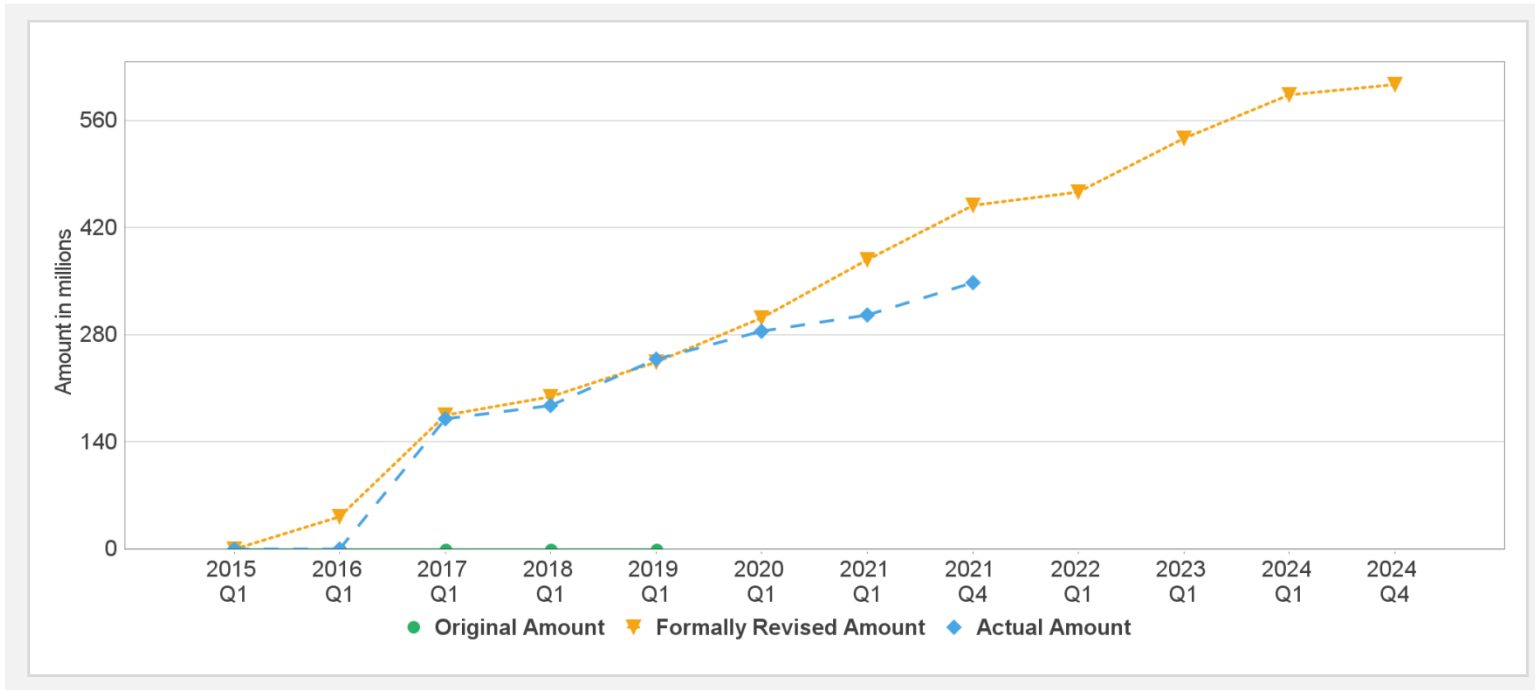
##### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P131256	IBRD-84400	Effective	USD	400.00	400.00	0.00	230.21	131.99	 64%
P131256	IBRD-88470	Effective	USD	100.00	63.00	37.00	0.16	62.84	 0.3%
P131256	TF-17509	Effective	USD	119.00	119.00	0.00	119.00	0.00	 100%
P131256	TF-A7233	Effective	USD	25.00	25.00	0.00	0.00	25.00	 0%

##### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P131256	IBRD-84400	Effective	30-Sep-2014	19-Dec-2014	05-May-2015	30-Jun-2020	28-Jun-2024
P131256	IBRD-88470	Effective	08-Jun-2018	16-Dec-2019	06-Mar-2020	31-Dec-2022	28-Jun-2024
P131256	TF-17509	Effective	30-Sep-2014	19-Dec-2014	05-May-2015	30-Jun-2020	28-Jun-2024
P131256	TF-A7233	Effective	08-Jun-2018	16-Dec-2019	06-Mar-2020	28-Jun-2024	28-Jun-2024

##### Cumulative Disbursements



### PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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### Restructuring History

Level 2 Approved on 11-Aug-2015 ,Level 2 Approved on 24-Jun-2016 ,Level 2 Approved on 06-Dec-2019

### Related Project(s)

P164288-Morocco - Noor Solar Power Project Additional Financing