



# 140 MW SOLAR PHOTOVOLTAIC PROJECT IN RAJASTHAN



Document Prepared By EKI Energy Services Limited

<b>Project Title</b>	140 MW Solar Photovoltaic Project in Rajasthan
<b>Project ID</b>	VCS 1709
<b>Project Start Date</b>	18 <sup>th</sup> July 2017
<b>SD Contributions Reporting Period</b>	18 <sup>th</sup> –July 2017 to 31 <sup>st</sup> -December-2018 (Inclusive of both the dates)
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# 1 SUMMARY OF SUSTAINABLE DEVELOPMENT CONTRIBUTIONS

The main purpose of this project activity is to generate clean form of electricity through renewable solar energy source. Rising Bhadla 1 Private Ltd. and Rising Bhadla 2 Private Ltd. are the promoter of the proposed project activity. The project activity involves installation of 2 x 70 MW solar power project at Bhadla, Jodhpur, Rajasthan. Over the 10 years crediting period, for the duration 18<sup>th</sup>-July-2017 to 17<sup>th</sup>-July-2027, the project would replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 241,573 tCO<sub>2</sub>e per year, thereon displacing 250,258 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian grid, which is mainly dominated by thermal/fossil fuel based power plant.

The details of the project and the state of installation are mentioned in the table:-

Project Proponents Name	Capacity in MW (AC)	COD	Connection with Grid	State	Usage
Rising Bhadla 1 Private Ltd.	40 MW	18 <sup>th</sup> -July-2017	Indian Grid	Rajasthan	Sale to Grid
	30 MW	29 <sup>th</sup> -September-2017			
Rising Bhadla 2 Private Ltd.	40 MW	29 <sup>th</sup> -August-2017			
	30 MW	1 <sup>st</sup> -November-2017			

Scenario existing prior to the implementation of project activity:

The scenario existing prior to the implementation of the project activity, is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system"<sup>1</sup> -Version 05.0 (EB 87, Annex 09)

<sup>1</sup> <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v5.0.pdf>

During the current reporting period the project resulted in 381,488 MWh while Baseline emissions 368,248 tCO<sub>2e</sub> which included the period from 18<sup>th</sup> -July 2017 to 31<sup>st</sup> -December-2018 (inclusive of both dates).

The several sustainable development activities has been carried out during the current monitoring period are mentioned below:

**For SDG-7:** Rising Bhadla 1 Private Ltd. and Rising Bhadla 2 Private Ltd has generated 381,488 MWh clean energy through solar photovoltaic project during the current reporting period. The evidence for the same is provided in Appendix-1.

**For SDG-13:** Rising Bhadla 1 Private Ltd. and Rising Bhadla 2 Private Ltd has prevented the release of 368,248 tCO<sub>2e</sub> anthropogenic emissions of greenhouse gases (GHG's) into the atmosphere during the reporting period. The evidence for the same is provided in Appendix-1. The VCS MR of the project for this monitoring period acts as the supporting evidence of this.

## 2 PROJECT CONTRIBUTIONS

Table 1 : Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	7.2	7.2.1: Renewable energy share in the total final energy consumption	Implemented activities to increase	About 381,488 MWh renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix.	About 381,488 MWh renewable electricity has supplied to Indian grid throughout the project lifetime that helps to increase the renewable energy share in the energy mix
2)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 381,488 MWh clean electricity (generated through Solar PV) to Indian grid, the project avoided release of 368,248 tCO <sub>2</sub> e in to the atmosphere during the reporting period.	Overall Prevented the release of 368,248 tCO <sub>2</sub> e into the atmosphere since project commissioning.

# APPENDIX 1: SUPPORTING EVIDENCE

1. Supporting evidences for affordable and clean energy (SDG-7) through solar photovoltaic project can be referred from: <https://registry.verra.org/app/projectDetail/VCS/1709>
2. Supporting evidences for the tonnes of greenhouse gas emissions avoided or removed (SDG-13) can be referred from: <https://registry.verra.org/app/projectDetail/VCS/1709>