



**Verified Carbon
Standard**

SOLAR ENERGY PROJECT(S) BY SB ENERGY PRIVATE LIMITED



**INFINITE
SOLUTIONS**

Document Prepared by Infinite Environmental Solutions LLP

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The purpose of project activity is to implement renewable grid connected Solar energy projects in the country. The project activity is a voluntary action by Adani Renewable Energy Devco Private Limited (earlier known as SB Energy Private Limited). There are no mandatory laws or regulations existing in India requiring PP or any other party to develop a programme for renewable generation plants.

The electricity generated by the project renewable energy technology (solar PV) is supplied to the regional grid there by displacing the consumption of electricity from the regional grid electricity distribution system which is part of Indian grid and predominant by fossil fuel fired thermal power generation-based plants. Thus, serving the nation by contributing in sustainable development and reducing the anthropogenic GHG emissions equivalent to the generation by the project activity.

The monitoring period is from 01-February-2023 to 31-August-2023 (Both days inclusive). The total GHG emission reductions generated in this monitoring period are 1,393,764¹ tCO₂.

Audit Type	Period	Program	VVB Name	Number of years
Validation + Verification	(27-February-2017 – 31-December-2018)	VCS	LGA Technological Center S.A.	1 year 10 months 5 days
Verification	(01-January-2019 – 01-February-2020)	VCS	Earthood Services Private Limited	1 year 1 month 1 day
Verification	(02-February-2020 – 30-November-2021)	VCS	TÜV SÜD South Asia Pvt. Ltd.	1 year 9 months 29 days
Verification	(01-December-2021 – 30-June-2022)	VCS	LGA Technological Center, S.A. (Applus+)	0 year 7 months
Verification	(01-July-2022 – 31-January-2023)	VCS	LGA Technological Center, S.A. (Applus+)	0 year 7 months

¹ Generation from only four SPVs have been considered as one is not yet commissioned and rest three SPVs are registered in other GHG Program.

Verification	(01-February-2023 – 31-August-2023)	VCS	VKU certification Pvt. Ltd.	0 year 7 months
Total	(27-February-2017 –31-August-2023)	VCS	=	6 years 08 months

The registered project activity involves the installation of solar PV power Projects of 2,250 MW located in multiple states of India. However, Adani Renewable Energy Devco Private Limited (earlier known as SB Energy Private Limited) has decided to register three SPVs in other GHG scheme. Thus, remaining projects having 1650 MW_{AC} capacities are considered in this project and for periodic verification. Details of the SPVs are as follows:

SI No.	Owner of Project /SPV	Project Location	State	Project Capacity (MW)	Commissioning Date	Project ID	Remark
1	Adani Solar Energy AP Six Private Limited (earlier known as SBG Cleantech Project Co. Pvt Ltd)	Kurnool	Andhra Pradesh	182	27-February-2017	VCS 1805	Registered in VERRA only
				68	22-March-2017		
				100	28-March-2017		
2	Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	Bhadla	Rajasthan	100	21-September-2018	GS 7071 ²	Registered in other GHG standard (Gold Standard)
				100	24-September-2018		
				100	24-September-2018		
3	Adani Solar	Bhadla	Rajasthan	20	04-October-2018		Registered in other
				20	04-October-2018		

² <https://registry.goldstandard.org/projects/details/1455>

SI No .	Owner of Project /SPV	Project Location	State	Project Capacity (MW)	Commissioning Date	Project ID	Remark
	Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)			30	18-September-2018		GHG standard (Gold Standard)
				30	18-September-2018		
4	Adani Solar Energy Jodhpur five private limited (earlier known as SB Energy Four Private Limited)	Bhadla	Rajasthan	200	03-May-2019, 09-July-2019	GS 7532 ³	Registered in other GHG standard (Gold Standard)
5	Adani Solar Energy AP Seven Private Limited (earlier known as SB Energy Solar Private Limited)	Ananthapur	Andhra Pradesh	250	20-December-2019, 11-March-2020	VCS 1805	Registered in VERRA only
6	Adani Solar Energy RJ One Private Limited (earlier known as SB Energy	Jaisalmer	Rajasthan	600	Phase 1 (300 MW) – 14-June-2021 Phase-2 (300 MW) – yet to commission	VCS 1805	Registered in VERRA only

³ <https://registry.goldstandard.org/projects/details/1972>

SI No .	Owner of Project /SPV	Project Location	State	Project Capacity (MW)	Commissioning Date	Project ID	Remark
	Six Private Limited)						
7	Adani Solar Energy KA Nine Private Limited (earlier known as SBG Cleantech Project Co Five Private Limited)	Pavagadaa	Karnataka	200	17-December-2019	VCS 1805	Registere d in VERRA only
8	Adani Solar Energy AP Eight Private Limited (earlier known as SB Energy Seven Private Limited)	Kadappa	Andhra Pradesh	250	Yet to commission	VCS 1805	Registere d in VERRA only

These are the SPVs of Adani Renewable Energy Devco Private Limited (earlier known as SB Energy Private Limited) and the project is promoted by Adani Renewable Energy Devco Private Limited (earlier known as SB Energy Private Limited). Out of 2250 MW capacity, 1650 MW is considered under VCS mechanism. Out of 1650 MW capacity, 1100 MW capacity has been commissioned and rest 550 MW is yet to be commissioned.

1.2 Sectoral Scope and Project Type

The project activity under consideration is not a grouped project activity.

Sectoral Scope Applicable to project: 01 – Energy Industries (renewable/non-renewable Sources)

Project Type: I – Renewable Energy Projects

Title: ACM0002 Grid-connected electricity generation from renewable sources – Version 19

Reference: ACM0002 Version 19⁴

⁴ <http://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD>

1.3 Project Proponent

Organization name	Adani Renewable Energy Devco Private Limited
Contact person	Debjit Bag
Title	Lead - Carbon Offset Market
Address	Adani Corporate House, 4th Floor - South Wing, Shantigram, SG Highway, Ahmedabad, India
Telephone	+91 7567327231
Email	debjit.bag@adani.com

1.4 Other Entities Involved in the Project

Organization name	Infinite Solutions
Role in the Project	Project Consultant
Contact person	Mr. Jimmy Sah
Title	Head – Sustainability
Address	214-215 Milinda Manor, Opp. Next Treasure Island, 2 RNT Marg, Indore – 452001
Telephone	+91-9644130430
Email	jimmy@infisolutions.org

1.5 Project Start Date

The first project activity under consideration was commissioned and power generation started on 27-February-2017.

Hence the project start date is considered as 27-February-2017

1.6 Project Crediting Period

Project crediting period for project activity is taken as 10 years renewable twice.

Start date of the first crediting period: 27-February-2017

End date of the first crediting period: 26-February-2027

1.7 Project Location

The solar plants are located at various states of India and respective location is given below:

S. No.	Owner of Project/SPV	Project Location	State	Project Capacity (MW)	Geographical Coordinates
1	Adani Solar Energy AP Six Private Limited (earlier known as SBG Cleantech Project Co. Pvt Ltd)	Kurnool	Andhra Pradesh	182	15°41'01.02"N - 78°17'00.44"E
				68	
				100	
2	Adani Solar Energy AP Seven Private Limited (earlier known as SB Energy Solar Private Limited)	Ananthapur	Andhra Pradesh	250	13°59'32.08"N - 78°25'26.92"E
3	Adani Solar Energy RJ One Private Limited (earlier known as SB Energy Six Private Limited)	Phalodi, Jaisalmer	Rajasthan	600	26°54'07.4"N - 72°03'41.2"E
4	Adani Solar Energy AP Eight Private Limited (earlier known as SB Energy Seven Private Limited)	Kadappa	Andhra Pradesh	250	14°56'58.59"N - 78°13'12.84"E
5	Adani Solar Energy KA Nine Private Limited (earlier known as SBG Cleantech Project Co Five Private Limited)	Pavagadaa	Karnataka	200	14°13'26.44"N - 77°25'47.83"E

The map of project site is as indicated in the following figure:

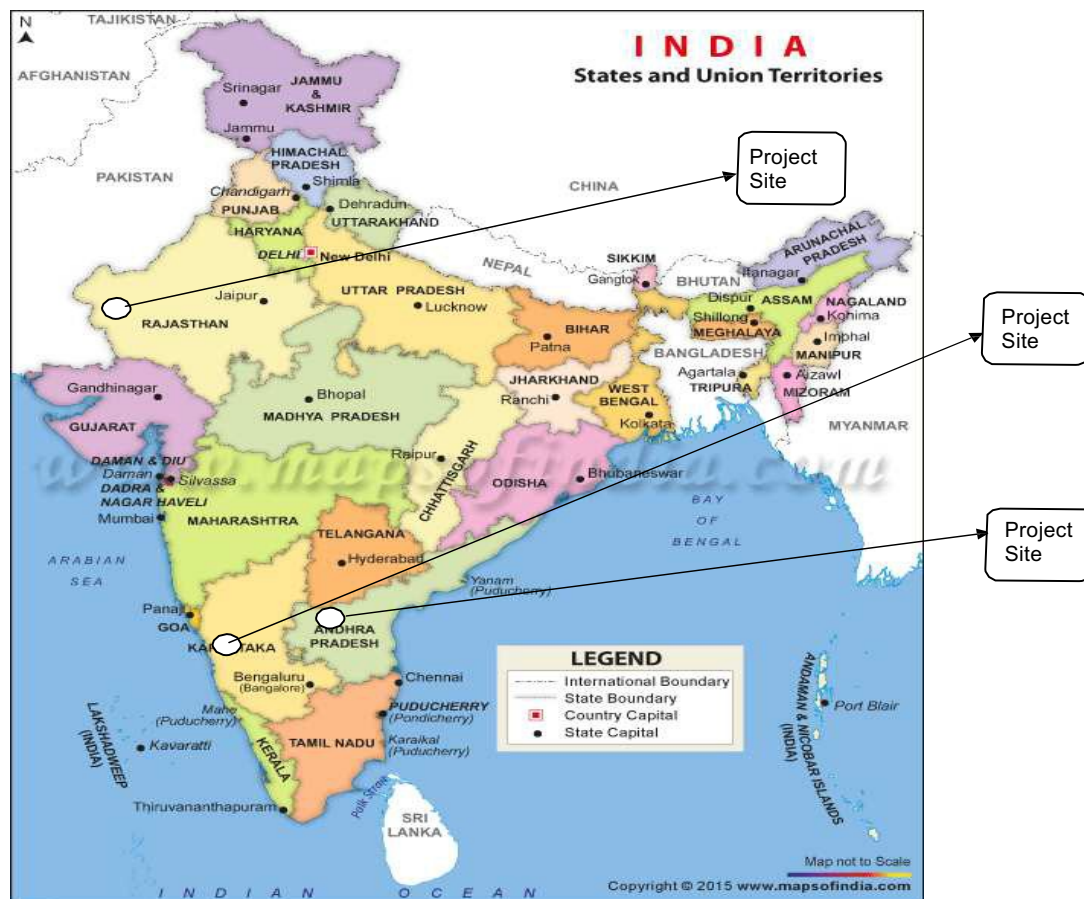


Figure 1 Map of India showing Project Location

1.8 Title and Reference of Methodology

Title	: Grid-connected electricity generation from renewable sources
Reference	: The project activity meets the eligibility criteria of large-scale project as it is more than 15 MW
Methodology	: ACM0002: Grid-connected electricity generation from renewable sources - Version 19 ⁵
Type I	: Energy industries (renewable / non-renewable sources)
Category	: Approved Consolidated Methodology (ACM0002)
Tools referred with above methodology and applicable for project activity are:	
Tool to calculate the emission factor for an electricity system ⁶ - Version 07.0 (EB 100, Annex 04)	

⁵ <http://cdm.unfccc.int/methodologies/DB/VJ19AX539D9MLOPXN2AY9UR1N4IYGD>

⁶ <http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf>

Methodological Tool- Tool for the demonstration and assessment of additionality⁷ - Version 07.0.0 (EB 70, Annex 08)

1.9 Participation under other GHG Programs

The project activity has not been registered under any other GHG program at this moment. However, three SPVs of this project activity have been registered in other GHG program. Below is the list of all SPVs under this project activity with other GHG scheme

S. No	Owner of Project/SPD	Project Location	State	Project ID	Remark
1	Adani Solar Energy AP Six Private Limited (earlier known as SBG Cleantech Project Co. Pvt Ltd)	Kurnool	Andhra Pradesh	VCS 1805	Registered in VERRA only
2	Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	Bhadla	Rajasthan	GS 7071 ⁸	Registered in other GHG standard (Gold Standard)
3	Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)	Bhadla	Rajasthan		Registered in other GHG standard (Gold Standard)
4	Adani Solar Energy Jodhpur five private limited (earlier known as SB Energy Four Private Limited)	Bhadla	Rajasthan	GS 7532 ⁹	Registered in other GHG standard (Gold Standard)

⁷ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-01-v7.0.0.pdf>

⁸ <https://registry.goldstandard.org/projects/details/1455>

⁹ <https://registry.goldstandard.org/projects/details/1972>

S. No	Owner of Project/SPD	Project Location	State	Project ID	Remark
5	Adani Solar Energy AP Seven Private Limited (earlier known as SB Energy Solar Private Limited)	Ananthapur	Andhra Pradesh	VCS 1805	Registered in VERRA only
6	Adani Solar Energy RJ One Private Limited (earlier known as SB Energy Six Private Limited)	Jaisalmer	Rajasthan	VCS 1805	Registered in VERRA only
7	Adani Solar Energy KA Nine Private Limited (earlier known as SBG Cleantech Project Co Five Private Limited)	Pavagadaa	Karnataka	VCS 1805	Registered in VERRA only
8	Adani Solar Energy AP Eight Private Limited (earlier known as SB Energy Seven Private Limited)	Kadappa	Andhra Pradesh	VCS 1805	Registered in VERRA only

The details of credits claimed from GS 7071 and GS 7532 are mentioned below along with their monitoring periods -

Project ID	Monitoring Period	CERs
GS 7071	01-January-2019 to 31-August-2019	608,592 tCO _{2e}
	01-September-2019 to 30-September-2020	989,457 tCO _{2e}
	01-October-2020 to 30-September-2021	943,156 tCO _{2e}

GS 7532	03-May-2019 to 31-July-2020	508,684 tCO _{2e}
	01-August-2020 to 30-September-2021	539,140 tCO _{2e}

1.10 Other Forms of Credit and Supply Chain (Scope 3) Emissions

Emission Trading Programs and Other Binding Limits: The project is not a part of any emission trading program as confirmed by the project proponent through the declaration of no double counting certificate.

Other Forms of Environmental Credit: The project activity has not availed any other form of environmental credit as confirmed by the project proponent through the declaration of no double counting. Furthermore, the project activity is not availing any benefits from CDM (Clean Development Mechanism)/GS (Gold Standard)/GCC (Global Carbon Council)/UCR (Universal Carbon Registry)/RECs (Renewable Energy Certificates) mechanism which can be confirmed from the link below:

https://www.recregistryindia.nic.in/index.php/publics/accredited_regens

[CDM: CDM-Home \(unfccc.int\)](http://cdm-home.unfccc.int)

<https://www.goldstandard.org/>

<https://projects.globalcarboncouncil.com/>

<https://www.ucarbonregistry.io/>

<https://www.irecstandard.org/registries/>

The project activity is a solar power plant project which does not involve any supply chain in the project such as manufacturers, wholesalers, distributors and retailers. So, indirect upstream and downstream GHG emissions are not involved in the project activity. Thus, the Scope 3 emissions are not applicable in this project activity.

1.11 Sustainable Development Contributions

Contribution to sustainable development:

Ministry of Environment, Forest and Climate Change, has stipulated economic, social, environment and technological well-being as the four indicators of sustainable development.

The project contributes to sustainable development using the following ways.

- **Social well-being:** The project helps in generating employment opportunities during the construction and operation phases. The project activity leads to development in

infrastructure in the region like development of roads and may promote business with improved power generation.

- **Economic well-being:** The project is a clean technology investment in the region, which have not been taken place in the absence of the VCS benefits the project activity. It also helps to reduce the demand supply gap in the state. The project activity generates power using zero emissions solar based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.
- **Technological well-being:** The successful operation of project activity leads to promotion of solar based power generation and encourages other entrepreneurs to participate in similar projects.
- **Environmental well-being:** The project activity being a renewable source of energy, it reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the project activity also helps in avoiding significant amount of GHG emissions.

The project is solar power project, it has generated 1,470,991.83 MWh electricity and avoided 1,393,764 tons of greenhouse gas emissions in the atmosphere during the current monitoring period. So, the project contributes to the sustainable development and it is fulfilling SDG 07 and SDG 13.

Table 1: Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	13.0	13.2.2 Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase reduction of GHG	By installation of 1100 MW Solar Energy Power Plant out of 1650 MW, project has prevented the release of 1,393,764 tonnes of CO ₂ into the atmosphere during the monitoring period	Prevented the release of 9,446,114 tonnes of CO ₂ (1,331,623+673,926+3,142,587+1,788,472+ 1,115,742+1,393,764) into the atmosphere.
2)	7.2	7.2.1: Renewable energy share in the total final energy consumption	Implemented activities to increase consumption of renewable energy (clean energy)	About 1,470,991.83 MWh, renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix.	Since Commissioning, about 9,969,520.25 MWh (1,405,410+711,267.88+3,316,715+18,87,570.98+1,177,564.56+1,470,991.83) renewable electricity has supplied to Indian grid that helps to increase the renewable energy share in the energy mix

2 SAFEGUARDS

2.1 No Net Harm

The project activity does not involve any major construction activity. It primarily requires the installation of the solar panels, interfacing the generators with the State Electricity Board by setting up HT transmission lines and installation of other accessories.

The report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013. This report clearly mentioned that solar project activity operations do not result in direct air pollution, noise pollution. This report also provides insights about socio-economic impacts of renewable energy projects (3.1.2) which is applicable for the project activity. Please refer below web link for the same¹⁰.

Thus, there are no any significant impacts due to implementation of project activity on air, water, soil quality and ambience are envisaged due to the project activity

2.2 Local Stakeholder Consultation

At the time of project validation, a broad range of audiences (Local community, Village administration, Technology suppliers and Local vendors) were invited by several means (Invitation, Calls, Notice pasted on common area). Various channels were used to reach maximum number of participants. At the validation stage stakeholder meeting, it was announced that the grievances register would be placed at the site for localities for their feedback and complaints. The detail of the invitation date and stakeholder meeting date is as below:

Sr No.	Owner of Project/SPV ²⁵	Project Location	State	Date of LSC meeting
1	Adani Solar Energy AP Six Private Limited (earlier known as SBG Cleantech Project Co Private Limited)	Kurnool	Andhra Pradesh	12-September-2015
2	Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	Bhadla	Rajasthan	14 September -2016
3	Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)	Bhadla	Rajasthan	14-September -2016

¹⁰ <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

4	Adani Solar Energy Jodhpur five private limited (earlier known as SB Energy Four Private Limited)	Bhadla	Rajasthan	15-October-2018
5	Adani Solar Energy AP Seven Private Limited (earlier known as SB Energy Solar Private Limited)	Ananthapur	Andhra Pradesh	22-September-2018
6	Adani Solar Energy RJ One Private Limited (earlier known as SB Energy Six Private Limited)	Phalodi, Jaisalmer	Rajasthan	16-September-2018
7	Adani Solar Energy AP Eight Private Limited (earlier known as SB Energy Seven Private Limited)	Kadappa	Andhra Pradesh	13-January-2019
8	Adani Solar Energy KA Nine Private Limited (earlier known as SBG Cleantech ProjectCo Five Private Limited)	Pavagadaa	Karnataka	23-September-2018

As a part of continual improvement process, feedback from the associated stakeholders is vital, therefore a dedicated Visitor register cum grievance register has been placed at the project site at main security guard room which is accessible to stakeholders to provide their feedback on the project. It is appropriate publicly accessible location at which local stakeholders can provide their feedback on the project.

This location is also conducive to continuous and regular checks for stakeholder comments. However, no grievances received during the current monitoring period. Since no any grievances received, no any mitigation measures are required.

2.3 AFOLU-Specific Safeguards

This Section is not applicable here as the project activity is not an AFOLU project activity

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The proposed project activity involves the installation of Solar PV project. The total installed capacity of the project is 2,250 MW; which involves installation of Solar PV projects of different capacities located in Andhra Pradesh, Rajasthan and Karnataka states of India. Current Status for the project activity:

S.No	Owner of Project/SPV	Project Location	State	Project Capacity (MW)	Commissioning Date	Current Status
1	Adani Solar Energy AP Six	Kurnool	Andhra Pradesh	182	27-February-2017	

S.No .	Owner of Project/SPV	Project Location	State	Project Capacity (MW)	Commissioning Date	Current Status
	Private Limited (earlier SBG Cleantech Project Co. Pvt Ltd)			68	22- March- 2017	SPV registered under VCS Project activity. PP has considered electricity generation from this SPV during current verification.
				100	28- March- 2017	
2	Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	Bhadla	Rajasthan	100	21- September- 2018	SPVs deregistered from the project activity
				100	24- September- 2018	
				100	24- September- 2018	
3	Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)	Bhadla	Rajasthan	20	04-October- 2018	
				20	04-October- 2018	
				30	18- September- 2018	
				30	18- September- 2018	
4	Adani Solar Energy Jodhpur five private limited (earlier known as SB Energy Four Private Limited)	Bhadla	Rajasthan	200	03-May- 2019, 09- July-2019	

S.No .	Owner of Project/SPV	Project Location	State	Project Capacity (MW)	Commissioning Date	Current Status
5	Adani Solar Energy AP Seven Private Limited (earlier SB Energy Solar Private Limited)	Ananthapur	Andhra Pradesh	250	20-December-2019, 11-March-2020	SPVs registered under VCS Project activity. PP has considered electricity generation from this SPV during current verification.
6	Adani Solar Energy RJ One Private Limited (earlier SB Energy Six Private Limited)	Phalodi, Jaisalmer	Rajasthan	600	Phase 1 (Phalodi- 300 MW)– 14-June-2021 Phase 2(Pokhran - 300 MW)-Yet to be commissioned	
7	Adani Solar Energy KA Nine Private Limited (earlier SBG Cleantech Project Co Five Private Limited)	Pavagadaa	Karnataka	200	17-December-2019	
8	Adani Solar Energy AP Eight Private Limited (earlier SB Energy Seven Private Limited)	Kadappa	Andhra Pradesh	250	Yet to be commissioned	-

Out of 2250 MW capacity, 1650 MW is considered under VCS mechanism. Out of 1650 MW capacity, 1100 MW capacity has been commissioned and rest 550 MW is yet to be commissioned.

Technical Specification of 350 MW Solar

S.No	Particulars	Details
1	Technology used	Polycrystalline
2	Rating of Solar Modules	310 to 320Wp, Make-Trina Solar
3	Number of modules of each type	310 Wp-264,840 315 Wp- 775,280 320 Wp – 402,360
4	Invertor	350 numbers of 1 MW each, make TMEIC
5	Transformer	175 nos.

Technical Specification of 300 MW Solar

S.No	Particulars	Details
1	Technology used	Polycrystalline
2	Rating of Solar Modules	325 to 330Wp
3	Number of modules of each type	325 Wp- 492,398 (make Jienergy) 325 Wp- 325,874 (make CSUN) 330 Wp- 394,730 (make Jienergy) 330 Wp- 119,265 (make CSUN)
4	Invertor	96 numbers of 3.125 MW each, make Sungrow
5	Transformer	24 nos.

Technical Specification of 250 MW Solar

S.No	Particulars	Details
1	Technology used	Polycrystalline
2	Rating of Solar Modules	325 to 330Wp (SUNTECH, Risen)
3	Number of modules	1140056
4	Invertor	80 numbers of 3.125 MW each, make SUNGROW
5	Transformer	4 nos.

Technical Specification of 200 MW Solar

S.No	Particulars	Details
1	Technology used	Polycrystalline
2	Rating of Solar Modules	335Wp (JINERGY) 330 Wp (risen) 335 Wp (risen)
3	Number of modules	228011
4	Invertor	64 numbers of 3.125 MW each, make CIMC

5	Transformer	4 nos.
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No such events took place during this monitoring period that may impact the GHG emission reductions for the project activity. Regular O&M activities were conducted but barring them the project activity has been exporting electricity continuously since commissioning. The summary of breakdown details in the current monitoring period has been given in Appendix 3.

Reasons for breakdown include Fault-breakdown, DC String Cable, DC Ground Short and Inverter Failure.

3.2 Deviations

3.2.1 Methodology Deviations

There is no request for methodology deviation applied neither during this monitoring period nor during previous monitoring periods

3.2.2 Project Description Deviations

Project deviation taken during the third monitoring period:

During the third monitoring period, PP has updated in the MR that out of 8 SPV, 3 SPVs have been registered under GS mechanism and details of the same has been provided under section 1.9 of the MR.

S.No.	Owner of Project/SPD	Project Location	State	Project Capacity (MW)	GS ID / current project status
1	Adani Solar Energy Jodhpur three private limited (earlier known as SB Energy One Private Limited)	Bhadla	Rajasthan	300	GS 7071/ Deregistered from the VCS Project activity
2	Adani Solar Energy Jodhpur four private limited (earlier known as SB Energy Three Private Limited)	Bhadla	Rajasthan	100	
3	Adani Solar Energy Jodhpur five private limited	Bhadla	Rajasthan	200	GS 7532/ Deregistered from the VCS Project activity

S.No.	Owner of Project/SPD	Project Location	State	Project Capacity (MW)	GS ID / current project status
	(earlier known as SB Energy Four Private Limited)				

Project deviation applied during previous monitoring period:

At the time of project registration, SB Energy Private Limited was the Project Proponent of this project activity. However, on 30-March-2022, SB Energy Private Limited has renamed as Adani Renewable Energy Devco Private Limited. Thus, SB Energy Private Limited has gave up its rights and obligations in respect of the project and transferred all the rights to Adani Renewable Energy Devco Private Limited. Thus, Adani Renewable Energy Devco Private Limited is the PP of this project. Further, name change of the all SPVs have also completed. Revised name of the PP and SPVs are mentioned below:

SI No	Old Name	New Name
01	SBG Cleantech Project Co. Pvt Ltd	Adani Solar Energy AP Six Private Limited
02	SB Energy One Private Limited	Adani Solar Energy Jodhpur three private limited
03	SB Energy Three Private Limited	Adani Solar Energy Jodhpur four private limited
04	SB Energy Four Private Limited	Adani Solar Energy Jodhpur five private limited
05	SB Energy Solar Private Limited	Adani Solar Energy AP Seven Private Limited
06	SB Energy Six Private Limited	Adani Solar Energy RJ One Private Limited
07	SBG Cleantech Project co Five Private Limited	Adani Solar Energy KA Nine Private Limited
08	SB Energy Seven Private Limited	Adani Solar Energy AP Eight Private Limited
09	SB Energy Private Limited	Adani Renewable Energy Devco Private Limited

Thus, same change in project proponent have been accounted as Project Description deviations in line with section 3.18.2 of VCS standard version 4.3. However, this project deviation doesn't have an adverse impact in the applicability of the methodology, additionally or the appropriateness of the baseline scenario.

There is no Project deviation during this current monitoring period.

3.3 Grouped Projects

The project activity is not a grouped project activity

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	$EF_{grid,OM,y}$
Data unit	tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 13, June 2018
Value applied	0.9726
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 07.0.0” as 3-year generation weighted average using data for the years 2014-2015, 2015-2016 & 2016-2017. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 13.0, published by the Central Electricity Authority, Ministry of Power, Government of India
Purpose of Data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire first crediting period.

Data / Parameter	$EF_{grid,BM,y}$
Data unit	tCO ₂ /MWh
Description	Build Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 13, June 2018
Value applied	0.8723
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 07” as per the latest data available for the most recent year 2016-17. The data is obtained from “CO ₂ Baseline Database for Indian Power Sector” version 13, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire first crediting period.

Data / Parameter	EF _{grid,CM,y}
Data unit	tCO ₂ /MWh
Description	Combined Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database, Version 13, June 2018
Value applied	0.9475
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 07.0.0”. The data is obtained from “CO ₂ Baseline Database for Indian Power Sector” Version 13, June 2018, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	For the calculation of the Baseline Emission
Comments	This parameter is fixed ex-ante for the entire first crediting period.

4.2 Data and Parameters Monitored

Data / Parameter	EG _{facility,y}
Data unit	MWh
Description	Quantity of net electricity supplied (MWh) to the grid as a result of the implementation of the project activity in year y
Source of data	Credit Report /JMR as per Monthly Generation Report
Description of measurement methods and procedures to be applied	Data Type: Measured Monitoring equipment: Energy Meters are used for monitoring Recording Frequency: Continuous monitoring and Monthly recording from Energy Meters, Summarized Annually Archiving Policy: Paper & Electronic Calibration frequency: One in five years Electricity exported/imported to the grid is in kWh. However, for the calculation purpose electricity exported is converted in MWh. 1. For 350 MW Capacity – Kurnool – Andhra Pradesh The Net electricity supplied to the grid by the project activity was calculated as a difference of electricity exported to the grid, electricity imported from the grid obtained from joint meter reading certificates/credit notes issued by state electricity board as per below equation: $EG_{\text{facility,y}} = EG_{\text{Export}} - EG_{\text{Import}}$

	The joint reading at metering point (400/220 KV Grid Substation, Kurnool Ultra Mega Solar Park, Ghani) is carried out once in a month in presence of O&M officials and state electricity board personnel. The calculations/measurement of net electricity supplied to grid is under purview of state electricity board and the PP/Project activity owner has no role on it. PP/Project activity owner get value of net electricity supplied to grid and hence this parameter is mentioned as a part of monitoring plan. Cross Checking: Quantity of net electricity supplied to the grid was cross checked from the invoices raised by the PP to the State Electricity Board or invoices with third party. 2. For 250 MW – Andhra Pradesh & 200 MW – Pavagadaa (Karnataka) The REA statement issued by SRPC (Southern Regional Power Committee) contains the information of the Scheduled Power, Actual Power, and the Deviation between actual & scheduled power. The scheduled power being feed into the grid can be cross-checked from the monthly Invoices raised by the PP. For ER calculations, the values of Actual power have been considered. Metering point for 250MW – 220/400 KV PGCIL S.S., N.P. Kunta. Metering point for 200MW – KSPDCL Substations 5-66/220 KV which is further connected to PGCIL GSS. 3. For 600 MW Capacity (Phase 1 -300 MW - Commissioned)– Phalodi – Rajasthan The REA statement issued by NRPC (Northern Regional Power Committee) contains the information of Details of Inter-Regional Bilateral Exchanges Lakh Units (LUs) in which actual generation value can be cross-checked from the monthly Invoices raised by the PP. Monitoring point – 220/400/765 KV BHADLA Substation.
	Frequency of monitoring/recording
	Continuous monitoring and monthly recording
	Value monitored
	1,470,991.83 MWh
Monitoring equipment	
	Monitoring equipment has energy meter installed at the project activity site. Readings has cross checked with back up meter. The accuracy class of meters, calibration frequency of meters

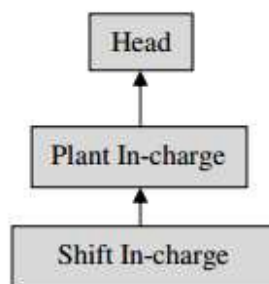
	is totally under purview of state electricity board and PP does not have any control on it. For detailed schedule of calibration of energy meters used in the project activity please refer Appendix- 1.
QA/QC procedures to be applied	The calibration of all the meters was undertaken once in five years ¹¹ and faulty meters will be duly replaced immediately. The meters was of accuracy class 0.2 s or higher. The meter accuracy class and calibration interval are under purview of state electricity board and PP/Project Activity owner do not have any control on it. It is also noted that apportioning procedure (if applicable for project activity) is under control of state electricity board and PP do not have any control on it. The available parameter to PP/project activity owner is the net electricity supplied to grid and same parameter is mentioned as monitoring parameter.
Purpose of the data	Calculation of baseline emissions
Calculation method	The parameter is measured and if any calculation is required, the calculation is based on measured parameters
Comments	Data hasf archived electronically for a period of 2 years beyond the end of crediting period

4.3 Monitoring Plan

The monitoring plan, which is implemented by the PP describes about the monitoring organisation, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving.

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data results with the PP. PP proposed the following structure for data monitoring, collection, data archiving and calibration of equipment for this project activity. The team comprises of the following members:

Organisational Structure for Monitoring



¹¹ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

PP has assigned the responsibility of operation and maintenance of project activity with relevant and authorised O&M contractors. The Plant In-charge and Shift In-Charge would be deployed by O&M contractors.

Responsibilities of Head: Overall functioning and maintenance of the data.

Responsibilities of Plant In-charge: Responsibility for Maintains the data records, ensures completeness of data, and reliability of data (calibration of equipments).

Responsibilities of Shift In-charge: Responsibility for day to day data collection and maintains day to day log book for monitored data.

In the event when the individual verification period dates and billing cycle dates of the project activity do not coincide, then the electricity export is apportioned based on number of days. The ratio of number of days under monitoring period and total number of days under billing cycle is multiplied to total electricity export to billing cycle.

No such event happened during current monitoring period.

For project activity which involves solar projects with common metering, apportioning is followed to determine net electricity export to grid. The apportioning procedure is not under control of PP, thus value of net electricity supplied to grid is available to PP and same is mentioned as monitoring parameter. The value of net electricity supplied to grid is used for ER calculations.

It is to be noted that the metering arrangement, accuracy class of meters, feeder arrangements, calibration frequency of meters are under control of state electricity board and PP does not have any control on it. Thus, any deviation at actual site or during verification is accepted.

Data Measurement:

Projects activity comprises of installation Energy meters at a GSS Substation prior to the Delivery point. The digital system is employed at the plant sites for overall monitoring of the project site.

1. 350 MW Kurnool – Andhra Pradesh

The electricity exported & imported are measured by Energy meter installed at substation. The electricity is fed in the Integrated Indian grid. Monitoring consists of metering the net electricity supplied to the grid ($EG_{\text{facility},y}$). This parameter is based on the monthly JMRs undertaken by APTRANSCO and PP which is continuously through energy meters. The PP is then raise monthly electricity sales invoices based on the JMR reading. Please refer Appendix 2 for SLD. The distance between the plant and Grid substation is 2.5 to 2.8 km.

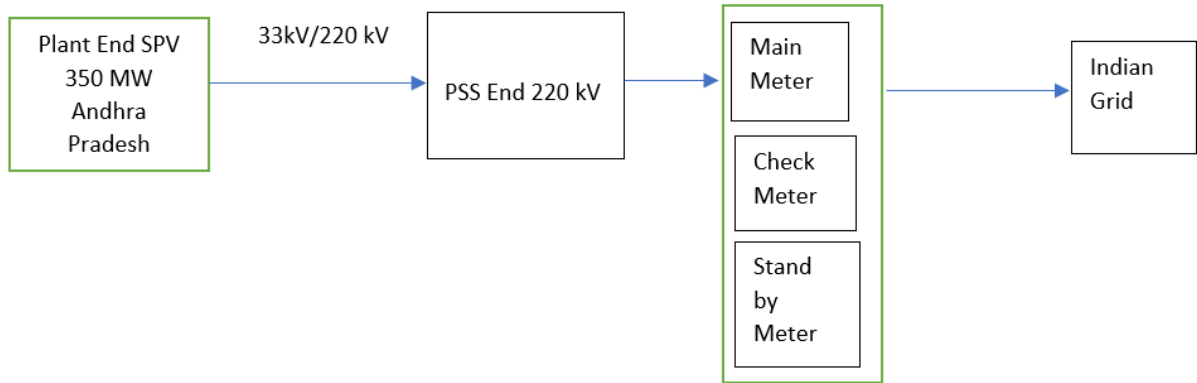


Figure: Single Line Diagram for Andhra Pradesh Site

2. 250 MW – Anantapur (Andhra Pradesh) & 200 MW – Pavagada (Karnataka)

The parameter $EG_{PJ,y}$ is calculated using the difference of export and import value measured from the electricity meter. Thus, value of net electricity supplied is directly sourced from the REA statement. For 250 MW the distance between plant and Grid Substation is 7-8 km and for 200 MW the distance is 500 meters.

The REA statement issued by SRPC which provide the values of Scheduled Power, Actual Power, and the Deviation between actual & scheduled power for the month.

The actual power is used for emission reduction calculation. For billing purpose, the meter readings shall be measured on monthly basis and the PP has no control over the process. Based on the statement the Invoice is raised by PP on the scheduled energy and thus crosschecking of actual energy supplied to grid from invoices is not possible. The scheduled power being feed into the grid can be cross-checked from the monthly Invoices supply of power from 200 MW (4*50 MW) (Block-23, Block-24, Block-25, Block-26) raised by the PP. For ER calculations, the values of Actual power have been considered.

The SRPC is a credible government body, and the REA statement is publicly available at the website of SRPC, which can be referred from [Welcome to SRPC | Ministry of Power \(kar.nic.in\)](http://Welcome%20to%20SRPC%20-%20Ministry%20of%20Power%20(kar.nic.in).htm). Please refer Appendix 2 for SLD.

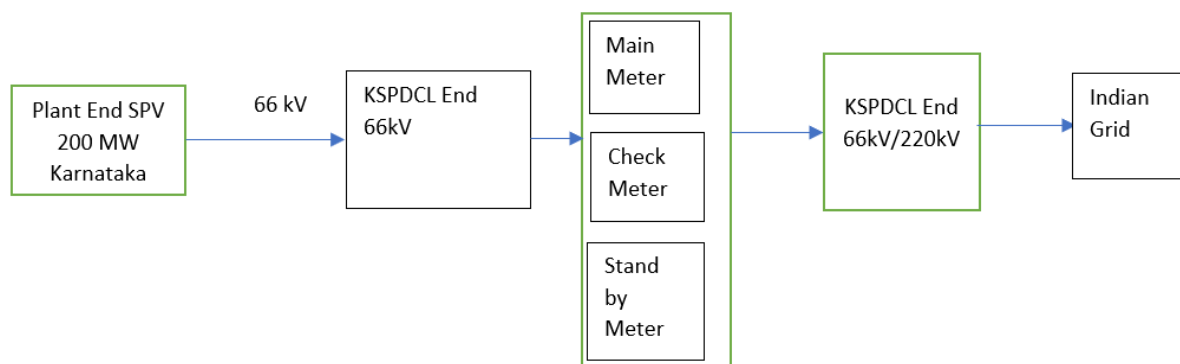


Figure: Single Line Diagram for Karnataka site

3. For 600 MW Capacity – Pokhran (Phase 2- 300 MW)¹² + Phalodi (Phase 1- 300 MW) – Rajasthan

The REA statement issued by NRPC (Northern Regional Power Committee) contains the information of Details of Inter-Regional Bilateral Exchanges (LUs) in which actual generation value can be cross-checked from the monthly Invoices raised by the PP. The NRPC is a credible government body, and the REA statement is publicly available at the website of NRPC, which can be referred from <http://nrpc.gov.in/>

The distance between plant and the Grid substation is 300 – 350 meters.

Single Line diagram of Solar PV project being followed at site is as follows:

¹² Yet to be commission- Phase-2.

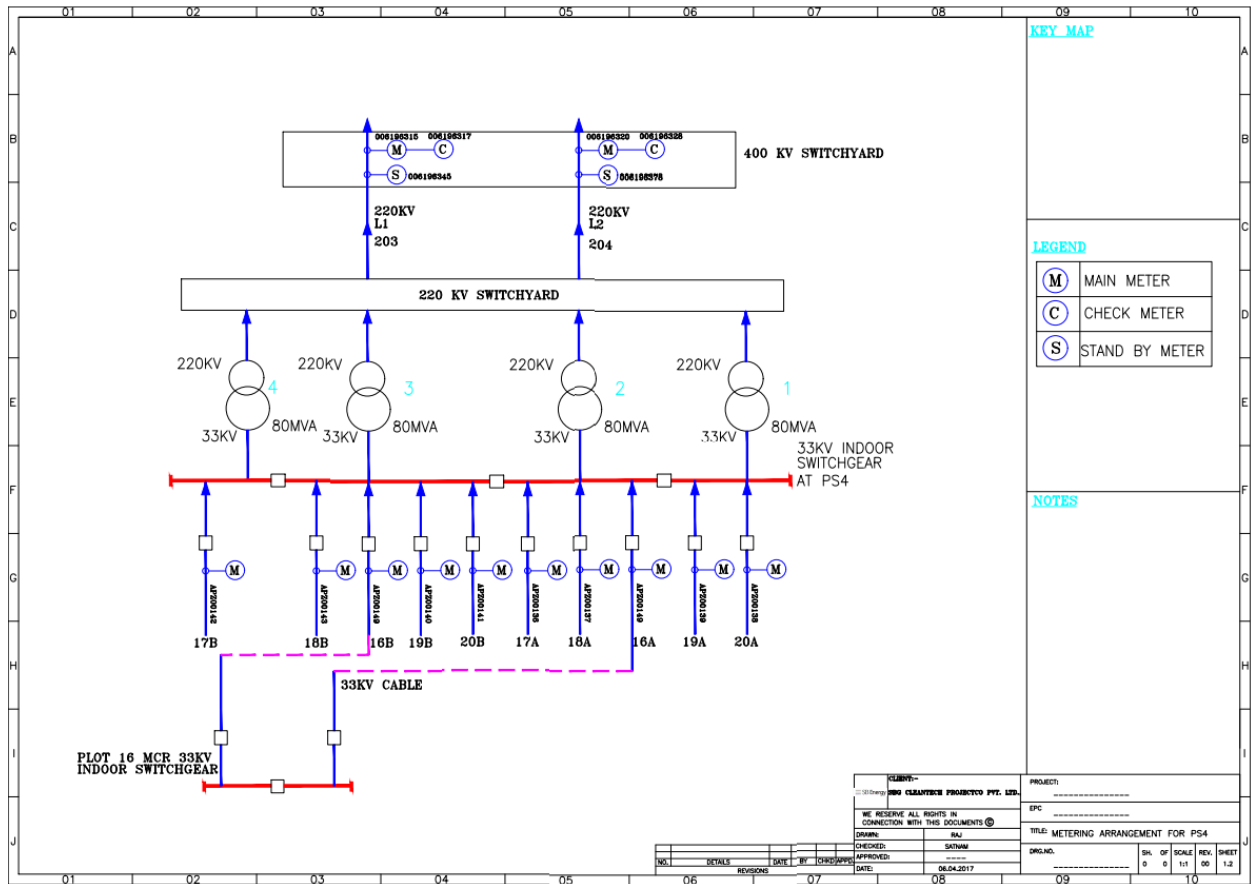


Figure 2 Single Line Diagram

QA & QC Procedures to be followed

Necessary check meters as required is installed, to operate in standby mode or when the main meters are not working. All meters was calibrated at least once in five year as per CEA notification. Records of calibration certificates has maintained for verification. Hence, high quality is ensured with the above parameters. The calibration of meters is under purview of state electricity board and CME/ project activity owner do not have any control on it. Out of 4 sites, 3 sites are done by Robotic cleaning which is covering a total capacity of 750 MW i.e. 300 MW, 200 MW, 250 MW respectively and the remaining one site i.e. 350 MW Kurnool installed in the solar park has been handled by the state government itself.

Data Recording and Storage

For measuring the net energy supplied to grid by the project activity at the interconnection point, one set of Main meter and Check Meter shall be provided. Representatives of both project activity Owner and State Utility is present to record the monthly meter readings. The state utility has prepare the credit report for the net energy supplied to the grid and same has been used as a basic document for monitoring and verification of the net energy supplied to the grid. Based on the monthly credit report, the project activity Owner shall raise an invoice to the utility. Utility has pay to the project activity Owner based on this document.

The above document has been kept at safe storage for verification of emission reductions generated from the project activity. The period of data storage has been 2 years beyond crediting period.

Emergency preparedness

The project activity has not result in any unidentified activity that can result in substantial emissions from the project activity. However, in case monitoring equipment get failed or found faulty, they shall be replaced with calibrated meters as quickly as possible. In case main meter get failed or found faulty, the reading of check meter has been considered. In the event that the main meter and check meter were both are not in services as a result of maintenance, repairs or testing, the Standby meter are used for readings. If where Standby meter not available than it is repaired, recalibrated or replace as soon as possible. At Pavagadaa (Karnataka) only main and check are available.

Personnel training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff has been trained. The Shift In-charge and Plant In-charge has be trained in equipment operation, data recording, operation and maintenance and emergency procedures in compliance with the monitoring plant.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

The baseline emission calculation for the project activity is attributable to the CO₂ Emission that could have been produced by the fossil fuel-based power plants in absence of the project activity. Therefore, the amount electricity supplied to the Indian grid is multiplied by the grid emission factor of Indian grid to calculate the baseline emissions reduced by the project activity.

$$BE_y = EG_{\text{facility},y} \times EF_{\text{grid},CM,y}$$

Where,

BE_y = Baseline Emissions in year y ; tCO₂

$EG_{\text{facility},y}$ = Quantity of net electricity supplied to the grid as a result of the implementation of the VCS project activity in year y (MWh)

$EF_{\text{grid},CM,y}$ = CO₂ emission factor of the grid in year y ; tCO₂/MWh

SPV wise details are as follows –

1. Adani Solar Energy AP Six Private Limited (earlier known as SBG Cleantech Project Co. Pvt Ltd) – 350 MW Kurnool, AP

Vintage 2023= 420818.58 MWh

Total Generation (MWh) =420818.58 MWh.

2. Adani Solar Energy AP Seven Private Limited (earlier known as SB Energy Solar Private Limited)– 250 MW Ananthapur, AP

Vintage 2023 = 362,883.87 MWh

Total Generation (MWh) = 362,883.87 MWh

3. Adani Solar Energy RJ One Private Limited (earlier known as SB Energy Six Private Limited) – 300 MW Phalodi, Rajasthan

Vintage 2023 = 403,086.80 MWh

Total Generation (MWh) = 403,086.80 MWh

4. Adani Solar Energy KA Nine Private Limited (earlier known as SBG Cleantech Project Co Five Private Limited) – 200 MW Pavagada, Karnataka

Vintage 2023 = 284,202.59 MWh

Total Generation (MWh) = 284,202.59 MWh

Total Generation from all SPVs for Vintage 2023 (MWh) = 420818.58 + 362,883.87 + 403,086.80 + 284,202.59 = 1,470,991.83 MWh

Thus,

BE_y = 1,470,991.83 MWh * 0.9475 tCO₂/MWh

= 1,393,764 tCO_{2e} (round down values)

5.2 Project Emissions

As per para 34 of methodology ACM0002- Grid-connected electricity generation from renewable sources, Version 19.0¹³, for renewable energy projects, there is no any project emissions occurred.

Hence, PE_y = 0

5.3 Leakage

As per para 56 of methodology ACM0002- Grid-connected electricity generation from renewable sources, Version 19.0¹⁴, for renewable energy projects, there is no any leakage emissions occurred.

Hence, LE_y = 0

¹³ <https://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD>

¹⁴ <https://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD>

5.4 Net GHG Emission Reductions and Removals

The net emission reduction as per registered capacity (2250 MW) as per registered PDD:

$$ER_y = BE_y - PE_y - LE_y$$

$$= 1,393,764 - 0 - 0$$

$$= 1,393,764 \text{ tCO}_2\text{e}$$

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2023 (01-Febrary-2023 to 31-August-2023)	1,393,764.00	0.00	0.00	1,393,764.00
Total	1,393,764.00	0.00	0.00	1,393,764.00

<u>Ex-ante emissions reductions /removals</u>	<u>Achieved emissions reduction s/removals</u>	<u>Percent difference</u>	<u>Justification for the difference</u>
2,529,273	1,393,764	-44.89%	The achieved emission reduction for this monitoring period is lower than estimated value in the PDD. The actual implemented capacity of the project activity is 1100 MW, which is lower than the registered capacity of 2250 MW. The generation of electricity depends upon many factors. As the total plant capacity is not fully implemented, therefore there is lesser generation and subsequently lower emission reductions.

The net emission reduction as per installed capacity during the current monitoring period (1100 MW):

$$ER_y = BE_y - PE_y - LE_y$$

$$= 1,393,764 - 0 - 0$$

$$= 1,393,764 \text{ tCO}_2\text{e}$$

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2023 (01-February-2023 to 31-August-2023)	1,393,764.00	0.00	0.00	1,393,764.00
Total	1,393,764.00	0.00	0.00	1,393,764.00

<u>Ex-ante emissions reductions /removals</u>	<u>Achieved emissions reduction s/removals</u>	<u>Percent difference</u>	<u>Justification for the difference</u>
1,236,533	1,393,764	+12.72%	The estimated PLF as per registered PDD and the actual PLF achieved during monitoring period varies. The achieved PLF is higher than the estimated PLF as per the registered PDD. The increase in the PLF is under the breaching value of Sensitivity as per the registered PDD. The higher generation was observed due to more sunshine hours and irradiance which is not under the control of project participant.

APPENDIX 1: METER CALIBRATION DETAILS

350 MW – Kurnool – Andhra Pradesh:

Pooling Substation – 4

Particular	Meter Serial No.	Accuracy Class	Recent Calibration Date	Validity
Feeder 203				
Main Meter	16196315	0.2 s	17-October-2019	16-October-2024
Check Meter	16196317	0.2 s	17-October-2019	16-October-2024
Stand by Meter	16196345	0.2 s	17-October-2019	16-October-2024
Feeder 204				
Main Meter	16196320	0.2 s	17-October-2019	16-October-2024
Check Meter	16196328	0.2 s	17-October-2019	16-October-2024
Stand by Meter	16196378	0.2 s	17-October-2019	16-October-2024

Pooling Substation – 3

Particular	Meter Serial No.	Accuracy Class	Recent Calibration Date	Validity
Feeder 205				
Main Meter	16196380	0.2 s	17-October-2019	16-October-2024
Check Meter	16196381	0.2 s	17-October-2019	16-October-2024
Stand by Meter	16196390	0.2 s	17-October-2019	16-October-2024
Feeder 206				
Main Meter	16196408	0.2 s	17-October-2019	16-October-2024
Check Meter	16196417	0.2 s	17-October-2019	16-

				October-2024
Stand by Meter	16196422	0.2 s	17-October-2019	16-October-2024

250 MW Anantapur – Andhra Pradesh

Feeder details	Meter	Make	Accuracy Class	Serial No	Calibration date	Calibration due date
GSS (Feeder-I)	Main Meter	L&T	0.2 s	NP-9769-A	20-December-2019	19-December-2024
GSS (Feeder-I)	Check Meter	L&T	0.2 s	NP-9768-A	20-December-2019	19-December-2024
PSS (Feeder-I)	Stand by Meter	L&T	0.2 s	LT-0736-A	20-December-2019	19-December-2024
GSS (Feeder-II)	Main Meter	L&T	0.2 s	NP-9726-A	20-December-2019	19-December-2024
GSS (Feeder-II)	Check Meter	L&T	0.2 s	NP-9725-A	20-December-2019	19-December-2024
PSS (Feeder-II)	Stand by Meter	L&T	0.2 s	LT-0739-A	20-December-2019	19-December-2024

EHT/DISCOM Grid Connected substation Details: 220/400 KV PGCIL S.S., N.P. Kunta.

200 MW – Pavagada – Karnataka

EHT/DISCOM Grid Connected substation Details: KSPDCL Substation 5 - 66/220 KV which is further connected to PGCIL GSS.

ABT meters	Capacity	Plant End	Meter Make/Class	Meter Serial No	Calibration Date	Calibration Date Due Date
1) Block 23	25 MW	Main Meter	L&T & 0.2 s	LT-0769-A	26-September-2019	25-September-2024
		Check Meter	L&T & 0.2 s	LT-0764-A	26-September-2019	25-September-2024
	25 MW	Main Meter	L&T & 0.2 s	LT-0866-A	27-September-2019	26-September-2024
		Check Meter	L&T & 0.2 s	LT-0863-A	27-September-	26-September-2024

					2019	
2) Block 24	25 MW	Main Meter	L&T & 0.2 s	LT -0874-A	27-September-2019	26-September-2024
		Check Meter	L&T & 0.2 s	LT-0871-A	27-September-2019	26-September-2024
	25 MW	Main Meter	L&T & 0.2 s	LT-0881-A	27-September-2019	26-September-2024
		Check Meter	L&T & 0.2 s	LT-0878-A	27-September-2019	26-September-2024
3) Block 25	25 MW	Main Meter	L&T & 0.2 s	LT-0870-A	27-September-2019	26-September-2024
		Check Meter	L&T & 0.2 s	LT-0880-A	01-October-2019	30-September-2024
	25 MW	Main Meter	L&T & 0.2 s	LT-0876-A	26-September-2019	25-September-2024
		Check Meter	L&T & 0.2 s	LT-0877-A	01-October-2019	30-September-2024
4) Block 26	25 MW	Main Meter	L&T & 0.2 s	LT-0872-A	27-September-2019	26-September-2024
		Check Meter	L&T & 0.2 s	LT-0778-A	26-September-2019	25-September-2024
	25 MW	Main Meter	L&T & 0.2 s	LT-0882-A	27-September-2019	26-September-2024
		Check Meter	L&T & 0.2 s	LT-0888-A	27-September-2019	26-September-2024

600 MW – Phalodi - Rajasthan

220/400/765 KV BHADLA SUBSTATION

Description	Main Meter- GSS	Check Meter - GSS	Standby Meter -ISS2
Meter Sr No	NS1125A	1127-A	1214-A
Meter Make	Secure	secure	secure
Accuracy	0.2 s	0.2 s	0.2 s
Calibration date	07-June-2021	07-June-2021	07-June-2021
Calibration due date	06-June-2026	06-June-2026	06-June-2026

APPENDIX 2: BREAKDOWN SUMMARY

Total Breakdown in the current monitoring period for 350 MW, Kurnool

S.No	Month	Hours
1	February-2023	159:57:00
2	March-2023	190:55:00
3	April-2023	123:45:00
4	May-2023	54:35:01
5	June-2023	15:36:00
6	July-2023	87:37:00
7	August-2023	15:32:00
Total		647:57:01

Total Breakdown in the current monitoring period for 250 MW, Anantapur

S.No	Month	Hours
1	February-2023	0.00
2	March-2023	0.00
3	April-2023	5:40:00
4	May-2023	51:41:00
5	June-2023	5:43:00
6	July-2023	6:36:00
7	August-2023	1:27:00
Total		71:07:00

Total Breakdown in the current monitoring period for 200 MW, Pavagada

S.No	Month	Block-23	Block-24	Block-25	Block-26
1	February-2023	0:00:00	0:00:00	0:00:00	0:00:00
2	March-2023	20:25:00	0:00:00	27:06:00	20:37:00
3	April-2023	0:00:00	9:59:00	9:37:00	5:28:00
4	May-2023	20:33:00	15:22:00	28:25:00	13:05:00
5	June-2023	00:00:00	4:09:00	4:45:00	12:24:00
6	July-2023	5:04:00	18:03:00	0:00:00	2:35:00
7	August-2023	4:58:00	4:38:00	0:00:00	15:01:00
Total		51:00:00	52:11:00	69:53:00	69:10:00

Total Breakdown in the current monitoring period for 300 MW, Rajasthan

S.No	Month	Hours
1	February-2023	36:27:00
2	March-2023	21:33:00
3	April-2023	30:05:00
4	May-2023	30:36:00
5	June-2023	17:39:00
6	July-2023	32:09:00
7	August-2023	54:21:00
Total		222:50:00

Plant Site	Total Operational Hours for all Sites	Net Operational Hours	Breakdown Hours
Kurnool and Anantapur of Andhra Pradesh and Jaisalmer of Rajasthan and Pavagadaa of Karnataka	100% = 20,352 Hours (total days 212*24(Hr)*04 (sites)	94.2% =19,165.92 Hours	5.8%=1186.08 Hours

Note: The summary of the breakdown details is provided, for more details for each site kindly refer the supporting documents.