



BUNDLED SOLAR PHOTOVOLTAIC PROJECT BY ACME



Document Prepared by EKI Energy Services Limited



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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

This grouped project activity is a step towards supporting the implementation and installation of grid connected renewable solar energy power plants in India. The implementation of project activity ensures energy security, diversification of the grid generation mix and sustainable growth of the electricity generation sector in India.

The main goal of project activity is to implement renewable energy projects in the country and the significant importance of revenues from sale of Verified Carbon Units (VCUs) to achieve this goal forms the basis of the implementation of this project activity. The project activity is a voluntary action and each SPV is the Project Proponent for their project activity. ACME Cleantech Solutions Private Limited as a parent company formed different SPV (Special Purpose Vehicles) for solar projects and projects are developed by name of SPVs. 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 project activity supports the development of new grid-connected renewable energy power plants in India and cover the solar energy technologies. It seeks to enable investment in large scale grid connected plants that export their generated output to the regional / national electricity grid in India. The electricity generated by renewable technology (solar) installed as part of the grouped project activity supplies either to the regional grid and/or supplied to the identified facility via regional grid through a contractual wheeling agreement for captive consumption there by displacing the consumption of electricity from the regional grid electricity distribution system. As of 31 December 2013, the Southern grid has also been synchronized with the NEWNE grid (Now unified INDIAN grid), hence forming one unified Indian Grid. Thus, for this Project activity instances Indian Grid is applicable. The objective of the grouped project activity is to develop a platform for reducing VCS Registration timelines and process costs for registration of individual projects under VCS. All the project instances i.e. renewable energy generation solar PV plants to be included in this grouped project from within India only. Hence the location and geographical boundary of the grouped project defined as India.

The commissioning dates of plant are mentioned in [section 3.1 Implementation status of the project activity](#). The respective project is running smoothly, there were no any instances occurred that would alter the GHG reductions, methodology applicability and monitoring procedure. The plant went for the schedule maintenance at regular intervals.

The total AC capacity of the project activity is 1,107.50 MW (with the reference to the deviation 7 ACME Rewari Solar Power Pvt Ltd and ACME Kurukshetra Solar Energy Pvt Ltd having total capacity 100 MW are no longer part of this grouped project and the total project capacity is reduced from 1207.50 MW to 1107.50 MW). The power produced displaces an equivalent amount of power from the grid, which is fed mainly by fossil fuel fired power plants. Hence, it results in reduction of GHG emissions. Estimated GHG emission reductions for current monitoring period from the project activity is 1,212,985 tonnes of CO₂e and total estimated GHG emission reductions for the chosen 10-year crediting period is 20,785,890 tonnes of CO₂e.

During the Current Monitoring Period from 25-September-2021 to 25-April-2022 (First and last date included) the project activity has contributed 1,305,548 tCO₂e GHG reductions.

1.2 Sectoral Scope and Project Type

The project activity falls under consideration of the grouped project activity. The project activity instances as part of the grouped project have the following parameters

Sectoral Scope : 01 - Energy industries (renewable / non-renewable sources)

Project Type : I - Renewable Energy Projects

Project Category: For each project activity, instances apply only solar technology. However, each project activity instances are either small scale or large scale and not the combination of two.

For large scale project activities, below large-scale methodology is applied

Methodology : ACM0002: Grid-connected electricity generation from renewable sources - Version 19.0¹

For small scale project activities, below small-scale methodology is applied

AMS-I.D.” Grid Connected renewable electricity generation – Version 18.0²

The project activity under consideration is a grouped project activity.

1.3 Project Proponent

Organization name	ACME Cleantech Solutions Private Limited
Contact person	Anurag Jain
Title	Manager EHS
Address	Plot No.152, Sector – 44, Gurugram -122 002, Haryana, India
Telephone	+91 95898 99649
Email	info@acme.in

¹ <http://cdm.unfccc.int/UserManagement/FileStorage/58IAGB7SZUDEO2VN6LYM30K41HFPRQ>

² <http://cdm.unfccc.int/UserManagement/FileStorage/2P7FS6ZQAR84LG3NMKYUH50WI9ODBC>

ACME Cleantech Solutions Private Limited as a parent company³ of all project activity instances formed as different SPV (Special Purpose Vehicles) for solar projects and projects are developed by name of SPVs.

Organization name	Athena Renewable Energy India Private Limited
Contact person	Ram Mohan
Title	CEO
Address	08B116, WeWork Enam Sambhav, C 20 G Block, Bandra Kurla Complex, Bandra East Mumbai Maharashtra 400051 INDIA
Telephone	+91 95898 99647
Email	ram@athena.in

Athena Bhiwadi Solar Power Pvt Ltd, Athena Hisar Solar Power Private Limited and Athena Karnal Solar Power Private Limited are the SPV of Athena Renewable Energy India Private Limited.

1.4 Other Entities Involved in the Project

Organization name	EKI Energy Services Limited
Role in the Project	Project Consultant
Contact person	Vipul Sahu
Title	Project Manager
Address	Office No 201, Plot No 48, Scheme 78, Vijay Nagar Part- II, Indore 452010, India
Telephone	+91-9111112889
Email	registry@enkingint.org , vipul.sahu@enkingint.org

³ Excluding Athena Bhiwadi Solar Power Pvt Ltd, Athena Hisar Solar Power Private Limited and Athena Karnal Solar Power Private Limited.

1.5 Project Start Date

The first project activity instance of the grouped project under consideration was commissioned and power generation started on 10-February-2017. The project activity instance is SPV Sunworld Energy Pvt Ltd under ACME group. Hence the project start date is defined as follows:

Project start date: 10-February-2017

1.6 Project Crediting Period

Crediting Period Start date: 10-February-2017⁴

Crediting Period End date: 09-February-2027

The grouped project activity adopts renewable crediting period of 10 years period which can be renewed for maximum 2 times.

1.7 Project Location

The details of the project locations are mentioned in the table below

Table 1 Details of the project locations

Activity Instances	Village	District	State	Name of the SPVs	Latitude	Longitude
01	Jagathiyal	Karimnagar	Telangana	Sunworld Solar Power Pvt Ltd	18.82203 N	79.10108 E
	Siricilla	Karimnagar	Telangana	ReNew Ranga Reddy Solar Power Pvt Ltd	18.30 N	78.88 E
	Annathsagar,	Medak	Telangana	ReNew Medak Solar Energy Pvt Ltd	18.14 N	78.29 E
	Beeravelly	Adilabad	Telangana	ReNew Nizamabad Solar Energy Pvt Ltd	19.13 N	78.24 E
	AnanthaSagar	Medak	Telangana	ACME PV Powertech Private Limited (Sadashivpet)	17.58 N	77.89 E
	Bhongir	Nalgonda	Telangana	ACME Solar Power Technology Private Limited	16.80 N	78.89 E
	Bhiwadi	Kadapa	Andhra Pradesh	Athena Bhiwadi Solar Power Pvt Ltd	14.11 N	78.45 E
	Hisar	Kadapa	Andhra Pradesh	Athena Hisar Solar Power Private Limited	14.11 N	78.78 E

⁴ Start date of crediting period is 10/02/2017, as on this day 1st set of Solar PV Plant associated to the one of the bundle starts its commercial operations. Accordingly end date of the crediting period is also been revised.

	Karnal	Kadapa	Andhra Pradesh	Athena Karnal Solar Power Private Limited	14.02 N	78.44 E
	Chitaguppa	Kaithal	Karnataka	ACME Kaithal Solar Power Private Limited	17.73 N	77.21 E
	Amaravati	Raichur	Karnataka	ACME Babadham Solar Power Private Limited	15.98979 N	76.93002 E
	Bidi	Belagavi	Karnataka	ACME Koppal Solar Energy Private Limited	17.21 N	76.77 E
	Malchapur	Bidar	Karnataka	ACME Vijayapura Solar Energy Pvt Ltd	17.91 N	77.37 E
	Bhadla	Jodhpur	Rajasthan	ACME Rewa Solar Energy Pvt Ltd	27.46 N	71.99 E
	Bap, Bhadla	Jodhpur	Rajasthan	Ayana Chittorgarh Solar Energy Pvt. Ltd	27.35 N	72.14 E
02	Kalvasrampur	Karimnagar	Telangana	ReNew Karimnagar Solar Power Pvt Ltd	18.52 N	79.55 E
03	Manthini	Karimnagar	Telangana	ReNew Purvanchal Solar Power Pvt Ltd	18.69 N	79.62 E
04	Jangaon	Karimnagar	Telangana	ReNew Rewanchal Solar Power Pvt Ltd	17.80 N	79.15 E
05	Gudhur	Karimnagar	Telangana	ReNew Neemuch Solar Power Pvt Ltd	18.79589 N	78.63609 E
06	Nandipet	Karimnagar	Telangana	ReNew Fazilka Power Pvt Ltd (Nandipet)	18.86 N	78.18 E
07	Lingampet Bayampally	Nizamabad	Telangana	ReNew Narwana Solar Power Pvt Ltd (Lingampet)	18.27893 N	78.10435 E
08	Mallaram	Karimnagar	Telangana	ReNew Warangal Solar Power Pvt Ltd	18.57 N	78.86 E
09	Kailashpuri, Gadarpur	Udham Singh Nagar	Uttarakhand	Devishi Renewable Energy Pvt Ltd	29.04 N	79.22 E
10	Kailashpuri, Gadarpur	Udham Singh Nagar	Uttarakhand	Devishi Solar Power Pvt Ltd	29.06 N	79.19 E
11	Ratanpura	Udham Singh Nagar	Uttarakhand	Sunworld Energy Pvt Ltd	29.20 N	79.08 E
12	Kalwakurthy	Mehboobnagar	Telangana	Acme Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	16.69 N	78.42 E
13	Mothkur	Yadadri	Telangana	Acme Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)	17.43 N	79.28 E

14	Kalwakurthy	Mehboobnagar	Telangana	ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)	16.71 N	78.47 E
15	Kalwakurthy	Mehboobnagar	Telangana	ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI)	18.40 N	78.21 E
16	Nagaram	Peddapally	Telangana	ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)	18.69 N	79.63 E

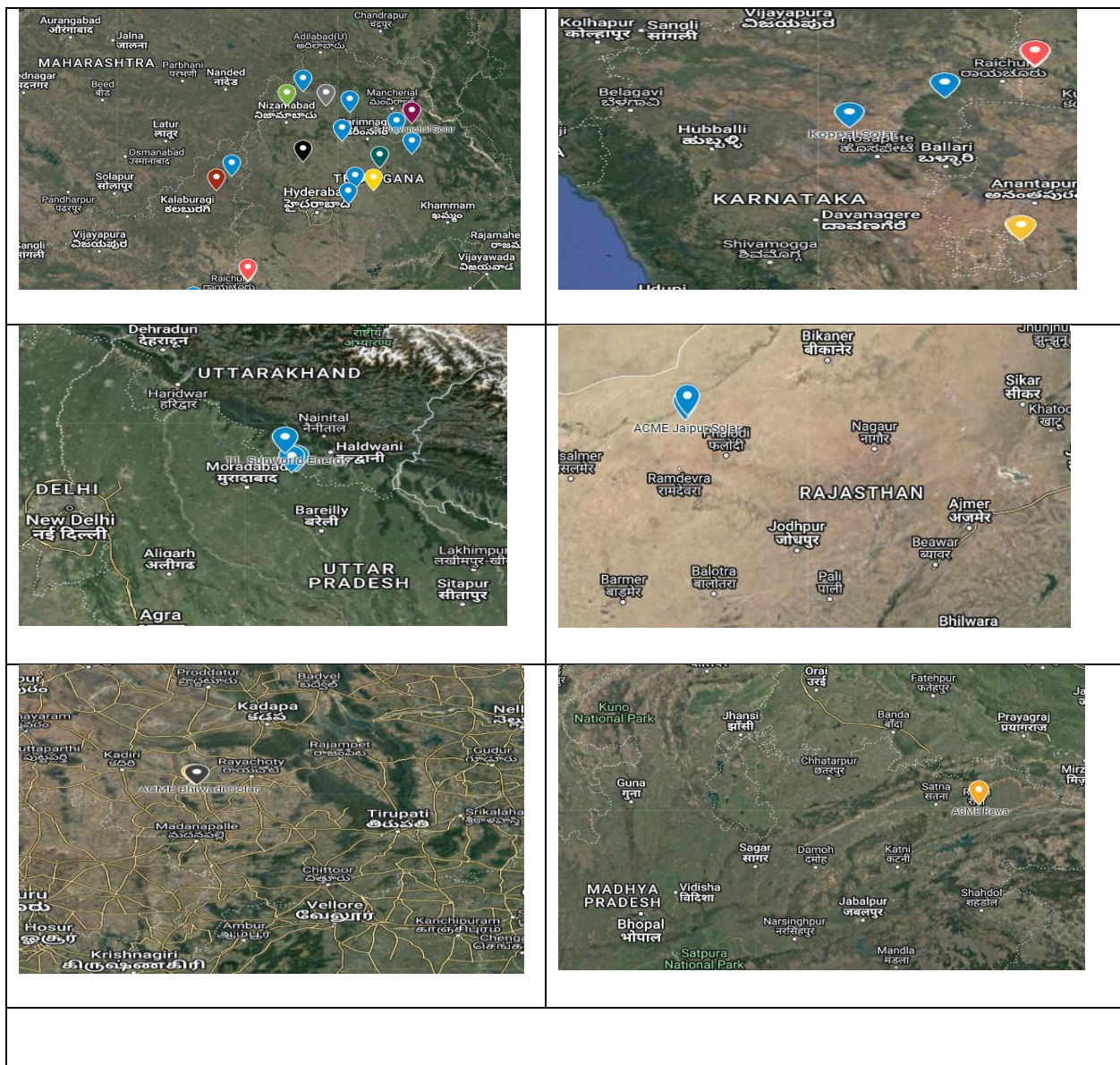




Figure 1 Satellite project location

Google Map of this Project activity:

<https://www.google.com/maps/d/u/0/edit?mid=1hXYNYDLqUZW0rXaFV5KRhrh0CIT5d44&usp=sharing>

1.8 Title and Reference of Methodology

The methodology for the project activity is approved methodology for large-scale CDM project activities. The details of the methodology are as follows:

Methodology : ACM0002
 Project Type : Type-I: Renewable Energy Projects
 Title : Grid-connected electricity generation from renewable sources
 Version No. : Version 19.0;
 Reference : CDM Methodology⁵

The methodology refers to following CDM Tools:

⁵ <http://cdm.unfccc.int/UserManagement/FileStorage/58IAGB7SZUDEO2VN6LYM30K41HFPRQ>

- Tool for the demonstration and assessment of additionality⁶ (Version 07.0.0, EB 70, Annex 8)
- Tool to calculate the emission factor for an electricity system⁷ - (Version 07.0 EB 100, Annex 04)

The methodology for small scale project activity instances was approved methodology for small-scale CDM project activities. The details of the methodology are as follows:

Methodology : AMS I.D
 Project Type : Type-I: Renewable Energy Projects
 Title : Grid connected renewable electricity generation
 Version No. : Version 18;
 Reference : CDM Methodology⁸

The methodology refers to following CDM Tools:

- Tool to calculate the emission factor for an electricity system⁹ - (Version 07.0 EB 100, Annex 04)

1.9 Participation under other GHG Programs

Not Applicable, as the project activity is not registered with any other program.

The undertaking from PP has been submitted for no any double accounting for current monitoring period and project activity is not participated any other GHG program other than VCS.

1.10 Other Forms of Credit

The project activity is not availing any REC benefits and the same can be confirmed from publically available link of REC generators.

Web-link: https://www.recregistryindia.nic.in/index.php/publics/accredited_regens PP has also submitted undertaking for not availing other forms of environmental credit for the same crediting period under consideration.

1.11 Sustainable Development Contributions

The project activity has beneficial effect on the local environment and employment in the nearby region. Clean Electricity generation through Solar PV result in avoidance of consumption of fossil fuels which results in contribution to SDG 7. The emission avoidance through these activities results in contribution to SDG 13. All the workers at site are trained which results in increase of skills, which contributes to SDG 4. Detailed indicators are mentioned in table 1. This is a voluntary

⁶ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-01-v7.0.0.pdf>

⁷ <https://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v7.0.pdf>

⁸ <https://cdm.unfccc.int/methodologies/DB/W3TINZ7KKWCK7L8WTXFQQOFQQH4SBK>

⁹ <http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v7.0.pdf>

project activity doesn't contribute to achieving any nationally stated sustainable development priorities. There is no compliance for monitoring and reporting the emission reduction and SDG contribution from the project activity.

Table 2: 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 1,377,912.16 MWh renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix.	Overall, 8,999,522.34 MWh (511,472.085+ 3,460,183.311+2,687,979.42+961,975.37+ 1,377,912.16) 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 1,377,912.16 MWh clean electricity (generated through Solar PV) to Indian grid, the project avoided release of 1,305,548 tCO _{2e} into the atmosphere during the reporting period.	Overall prevented the release of 8,526,931 (484,608 +3,278,486 + 2,546,833+911,456+ 1,305,548) tCO _{2e} into the atmosphere since project commissioning.
3)	4.4	4.4.1 Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill	Implemented activities to increase	Together with the technology supplier, the Project organize 282 ¹⁰ trainings for the staff on the technology and the monitoring of the plant operation, and the emergency and safety procedures.	Overall, 287 (282+05) trainings are provided during current monitoring period.

¹⁰ The details of Training records are provided in section

APPENDIX 3: Training records

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 PV panels, interfacing the generators with the State Electricity Board by setting up HT transmission lines and installation of other accessories.

Section 3.3 and 3.4 report on “Developmental Impacts and Sustainable Governance Aspects of Renewable Energy Projects” prepared by MNRE dated September 2013. This report clearly mentioned that solar PV project activity operations do not result in direct air pollution, noise pollution. Please refer below web link for the same¹¹.

Thus, there are no any potential negative environmental and socio-economic 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

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 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. For the global stakeholders, the suggestion and the grievance can be submitted to info@acme.in

Stakeholder meetings were organized at the time of registration of project activity in order to identify the major challenges around the area, stakeholders were invited well in advance through printed invitation, calls, meeting and a notice is placed around the local common areas. Various CSR activities around site are carried out. The stakeholder are request to share their experiences and grievances on continuous basis. Grievance registers is used to records the grievances and feedback.

During the current monitoring period, positive feedback is received regarding site operation. No grievances received during the current monitoring period; therefore, no any mitigation measures are required. In case of grievances, the nature of probable resolution is discussed with the plant

¹¹ <https://smartnet.niua.org/sites/default/files/resources/report-on-developmental-impacts-of-RE.pdf>

head office and implemented by the site in-charge. The grievance copies have been submitted to VVB.

2.3 AFOLU-Specific Safeguards

Not applicable to this as this is not an AFOLU project activity.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity involves the installation of Solar Power Projects. The total capacity of the project is 1,107.50 MW. The project is promoted by ACME Cleantech Solution Private Limited with its different group SPVs. The project activity is using solar energy to generate direct current (DC) using photovoltaic modules that converts into alternating current by inverters. The project activity instances under grouped project activity are grid connected and install a new power plant (i.e. solar PV) at a site where no renewable power plant was operating prior to the implementation of the project activity (green-field plant). The generated electricity is being supplied to grid or uses grid network for captive or third-party sale.

The project activity Instances are small scale project activities (with power generation capacity less than 15 MW) and large-scale project activities (with power generation capacity more than 15 MW). The Project activity follows AMS I.D. Version 18 or ACM0002 Version 19.0 based on scale of project activity instances.

The commissioning dates of plant are mentioned below:

Activity Instance	SPV Name	State	Capacity (MW)	Date of Commissioning
1	Sunworld Solar Power Pvt Ltd	Telangana	30	15-November-2017
	ReNew Ranga Reddy Solar Power Pvt Ltd		30	02-June-2017
	ReNew Medak Solar Energy Pvt Ltd		45	14-July-2017
	ReNew Nizamabad Solar Energy Pvt Ltd		50	11-September-2017
	ACME PV Powertech Private Limited (Sadashivpet)		50	07-July-2017
	ACME Solar Power Technology Private Limited		50	05-February-2018
	Athena Bhiwadi Solar Power Pvt Ltd	AP	50	05-July-2018
	Athena Hisar Solar Power Private Limited		50	21-June-2018

	Athena Karnal Solar Power Private Limited		50	15-June-2018
	ACME Kaithal Solar Power Private Limited	Karnataka	40	24-January-2018
	ACME Babadham Solar Power Private Limited		40	22-January-2018
	ACME Koppal Solar Energy Private Limited		40	15-April-2018
	ACME Vijayapura Solar Energy Pvt Ltd		40	23-January-2018
	ACME Rewa Solar Energy Pvt Ltd	Rajasthan	100	24-September-2018
	Ayana Chittorgarh Solar Energy Pvt. Ltd	Rajasthan	250	26-October-2019
2	ReNew Karimnagar Solar Power Pvt Ltd	Telangana	15	02-March-2017
3	ReNew Purvanchal Solar Power Pvt Ltd		15	23-February-2017
4	ReNew Rewanchal Solar Power Pvt Ltd		15	24-March-2017
5	ReNew Neemuch Solar Power Pvt Ltd		15	25-March-2017
6	ReNew Fazilka Power Pvt Ltd (Nandipet)		15	13-March-2017
7	ReNew Narwana Solar Power Pvt Ltd (Lingampet)		15	24-February-2017
8	ReNew Warangal Solar Power Pvt Ltd		15	03-March-2017
9	Devishi Renewable Energy Pvt Ltd	Uttarakhand	12.5	19-February-2017
10	Devishi Solar Power Pvt Ltd		12.5	19-February-2017
11	Sunworld Energy Pvt Ltd		12.5	10-February-2017
12	ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	Telangana	10	26-September-2017
13	ACME Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)		10	17-Septemeber-2017
14	ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)		10	11-September-2017
15	ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI)		10	09-September-2017
16	ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)		10	12-September-2017
Total			1,107.5¹²	

¹² ACME Rewari Solar Power Pvt Ltd (50 MW) and Acme Kurukshetra Solar Energy Pvt Ltd (50 MW) are no longer part of grouped project activities. These SPVs are not being verified and eligible since 01-July-2020. Deviation 7 has been approved in previous verification.

The solar power generated from the Project is displacing the electricity generated from thermal power stations feeding into Indian grid and replacing the usage of diesel generators for meeting the power demand during shortage periods. Since, the solar power is Green House Gas (GHG) emissions free, the power generated prevent the anthropogenic GHG emissions generated by the fossil fuel based thermal power stations comprising coal, diesel, furnace oil and gas. The estimation of GHG reductions by this project is limited to carbon dioxide (CO₂) only. The details of previous Monitoring periods and monitoring numbers are tabulated below.

Monitoring No.	Monitoring Period	Net GHG Emission reductions (tCO ₂ e)
First Verification	10-February-2017 to 28-February-2018 (both days inclusive)	484,608
Second Verification	01-March-2018 to 31-January-2020 (Inclusive of both days)	3,278,486
Third Verification	01-February-2020 to 24-April-2021 (Inclusive of both days)	2,546,833
Fourth verification	25-April-2021 to 24-September-2021(Inclusive of both days)	911,456

All project activity instances are photovoltaic (PV) plant/unit, the project activity instances used solar energy to generate direct current from photovoltaic modules that converted into alternating current by inverters. The technical specifications of the plants are tabulated below:

Table 3 Technical specifications of the plants

SPV NAME		Sunworld Energy Pvt Ltd, Bazpur
Site		Bazpur-2
Module	Make	BYD
	specification of module	260, 265 Watts
	Total No of Module	58872
Inverter	Make	TBEA
	AC power	1000 KW
	Total Number of Inverter	12
Transformer	Make	Electrotherm India Pvt Ltd
	Transformer KVA	4.5 Mva (1), 4 MVA (2)
	Total Numb PT	3
SPV NAME		ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)
Site		Kosgi
Module	Make	Trina
	specification of module	320, 325, 330 Watts

	Total No of Module	41860
Inverter	Make	Tbea
	AC power	1250 KW
	Total Number of Inverter	8
Transformer	Make	Aum Transformer
	Transformer KVA	-
	Total Numb PT	2
SPV NAME		ACME Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)
Site		Mothkur
Module	Make	ZN shine, TALESUN
	specification of module	315, 320 325 Watts
	Total No of Module	42120
Inverter	Make	Tbea
	AC power	1250 KW
	Total Number of Inverter	8
Transformer	Make	Pete Hammond
	Transformer KVA	
	Total Numb PT	2
SPV NAME		ACME Vijayapura Solar Power Pvt. Ltd.
Site		Halburga
Module	Make	Trina ,Zn Shine, Risen
	specification of module	315, 320, 325, 330 Watts
	Total No of Module	167620
Inverter	Make	Tbea
	AC power	1250 KWkw
	Total Number of Inverter	32
Transformer	Make	Prime Meiden
	Transformer KVA	1X32/40MVA
	Total Numb PT	1
SPV NAME		ACME Solar Power Technology Private Ltd, Bhongir
Site		Bohngir
Module	Make	YINGLI, GCL
	specification of module	265, 270, 260
	Total No of Module	245160

Inverter	Make	Sungrow
	AC power	2500 KW
	Total Number of Inverter	20
Transformer	Make	Voltamp
	Transformer KVA	-
	Total Numb PT	2
SPV NAME		ACME Mahbubnagar Solar Energy Pvt Ltd-3
Site		Padmajiwadi
Module	Make	Jollywwod, Trina solar
	specification of module	370, 325, 320, 330 Watts
	Total No of Module	39500
Inverter	Make	Tbea
	AC power	1250 KW
	Total Number of Inverter	8
Transformer	Make	Aum Transformer
	Transformer KVA	-
	Total Numb PT	2
SPV NAME		ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)
Site		Godhur-2
Module	Make	BYD
	specification of module	265, 260 Watts
	Total No of Module	52368
Inverter	Make	Tbea
	AC power	1250 KW
	Total Number of Inverter	8
Transformer	Make	Pete Hammond
	Transformer KVA	-
	Total Numb PT	2
SPV NAME		ACME Rewa Solar Energy Pvt Ltd
Site		Bhadla-L2
Module	Make	ZnShine, GCL
	specification of module	315, 320, 325,330 Watts
	Total No of Module	464760
Inverter	Make	Tbea

	AC power	3750 KW/5000KW
	Total Number of Inverter	26
Transformer	Make	Silchar, Toshiba,Reychen Rpg
	Transformer KVA	
	Total Numb PT	14
SPV NAME		ACME Kaithal Solar Power Pvt. Ltd.
Site		Chittuguppa
Module	Make	Trina, Znshine, Yingli
	specification of module	320, 325 Watts
	Total No of Module	168440
Inverter	Make	Tbea
	AC power	1250 KW KW
	Total Number of Inverter	32
Transformer	Make	Prime Meiden
	Transformer KVA	32/40 MVA
	Total Numb PT	1
SPV NAME		Devishi Renewable Energy Pvt Ltd, Gadarpur
Site		Gadarpur-1
Module	Make	BYD
	specification of module	255, 260, 275 Watts
	Total No of Module	62304
Inverter	Make	Tbea
	AC power	1000 KW
	Total Number of Inverter	12
Transformer	Make	Electrotherm India Pvt Ltd
	Transformer KVA	4.5 Mva (1), 4 MVA (2)
	Total Numb PT	3
SPV NAME		ACME PV Powertech Private Limited
Site		Sadashivpet
Module	Make	RISEN, GCL, BYD
	specification of module	270, 265, 260, 275 Watts
	Total No of Module	242616
Inverter	Make	Sungrow
	AC power	2520 KW

	Total Number of Inverter	20
Transformer	Make	Transformer & Rectifiers
	Transformer KVA	-
	Total Numb PT	2
SPV NAME		ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)
Site		Manthani
Module	Make	BYD
	specification of module	260, 265 Watts
	Total No of Module	51864
Inverter	Make	Tbea
	AC power	1250 KW
	Total Number of Inverter	8
Transformer	Make	Aum Transformer
	Transformer KVA	-
	Total Numb PT	2
SPV NAME		Ayana Chittorgarh Solar Energy Pvt. Ltd
Site		Bhadla-L3
Module	Make	ZNSHINE, GCL & ECONESS
	specification of module	315, 320, 325,330 Watts
	Total No of Module	462210
Inverter	Make	Tbea
	AC power	3750 KW/5000KW
	Total Number of Inverter	26
Transformer	Make	Silchar, Toshiba
	Transformer KVA	
	Total Numb PT	14
SPV NAME		ACME Babadham Solar Power Pvt. Ltd.
Site		Byagwat
Module	Make	Trina,Znshine, Yingli,Talesun
	specification of module	315, 320, 325 Watts
	Total No of Module	168240
Inverter	Make	TBEA
	AC power	1250 KW KW

	Total Number of Inverter	32
Transformer	Make	Prime Meiden
	Transformer KVA	40MVA
	Total Numb PT	1
SPV NAME		Devishi Solar Power Pvt Ltd
Site		Gadarpur-2
Module	Make	BYD, Goldi
	specification of module	255, 260, 275, 270
	Total No of Module	62136
Inverter	Make	Tbea
	AC power	1000 KW
	Total Number of Inverter	12
Transformer	Make	Electrotherm India Pvt Ltd
	Transformer KVA	4.5 Mva (1), 4 MVA (2)
	Total Numb PT	3
SPV NAME		Devishi Renewable Energy Pvt Ltd, Gadarpur
Site		Gadarpur-1
Module	Make	BYD
	specification of module	255, 260, 275
	Total No of Module	62304
Inverter	Make	Tbea
	AC power	1000 KW
	Total Number of Inverter	12
Transformer	Make	Electrotherm India Pvt Ltd
	Transformer KVA	4.5 Mva (1), 4 MVA (2)
	Total Numb PT	3
SPV NAME		ACME Koppal Solar Energy Pvt. Ltd.
Site		Farhatabad
Module	Make	Seraphim, Yingli, Znshine
	specification of module	320, 325
	Total No of Module	168700
Inverter	Make	Tbea
	AC power	1250 KW kW

	Total Number of Inverter	32
Transformer	Make	Prime Meiden
	Transformer KVA	40 MVA
	Total Numb PT	3

SPV Name	Athena Bhiwadi Solar Power Pvt Ltd
AC Capacity in MW	50
Plan DC Capacity in MWp	72.5
DC Capacity Connected	72.5
Tilt details	3 degree & 24 Degree
PV technology	Polycrystalline
Make	Risen, CECEP, Znshine, trusun
specification of module	315, 320,325,330,335 Watts
Total No of Module	223300
Make	Risen, CECEP, Znshine, trusun
AC power	2.5 MW
Total Number of Inverter	20
Output	2.5 MW
Make	TBEA
Transformer KVA	1.IDTs 10000KVA - 4 Nos , 5000 KVA -2Nos and 2. Auxillary tarfo - 50 KVA - 2Nos
Total Numb PT & Trafo	Power transformer not available
SPV Name	Athena Karnal Solar Power Pvt Ltd
AC Capacity in MW	50
Plan DC Capacity in MWp	73.5
DC Capacity Connected	73.5
Tilt details	3 degree & 24 Degree
PV technology	Poly crystalline
Make	CECEP, Znshine, LIGHTWAY, SERAPHIM
specification of module	315 , 320,325,330,335 Watts
Total No of Module	226440
Make	CECEP, Znshine, LIGHTWAY, SERAPHIM
AC power	2.5 MW
Total Number of Inverter	20
Output	2.5 MW
Make	TBEA

Transformer KVA	1.IDTs 10000KVA - 4 Nos, 5000 KVA -2Nos and 2. Auxillary tarfo - 50 KVA - 2Nos
Total Numb PT & Trafo	Power transformer not available
SPV Name	Athena Hisar Solar Power Pvt Ltd
AC Capacity in MW	50
Plan DC Capacity in MWp	72.5
DC Capacity Connected	72.5
Tilt details	3 degree & 24 Degree
PV technology	Polycrystalline
Make	Risen, Adani CECEP, taleseun
specification of module	315 , 320,325,330,335 Watts
Total No of Module	222180
Make	Risen, Adani CECEP, taleseun
AC power	2.5 MW
Total Number of Inverter	20
Output	2.5 MW
Make	TBEA
Transformer KVA	1.IDTs 10000 KVA - 4 Nos , 5000 KVA -2Nos and 2. Auxillary tarfo - 50 KVA - 2Nos
Total Numb PT & Trafo	Power transformer not available
SPV Name	ReNew Purvanchal Solar
Site	Manthani
AC Capacity	15
Plant DC Capacity (CEIG)	19.72
DC Capacity Connected	19.72
Tilt details	3&25
PV technology	Polycrystalline
Make	Risen
specification of module	255, 260, 265 13920, 31008, 30600
Total No of Module	75528
Make	TBEA
AC power	1250
Total Number of Inverter	12
Output (V)	400
Make	Kryfs(3),PowerWare(1)
Transformer KVA	5000, 50
Total Numb PT ,IDT, Aux	4

SPV Name	ReNew Narwana Solar Power Pvt Ltd
Site	Lingampet
AC Capacity	15
Plant DC Capacity (CEIG)	
DC Capacity Connected	19.30
Tilt details	3&25
PV technology	Polycrystalline
Make	BYD
specification of module	255, 260
	15720, 58800
Total No of Module	74520
Make	TBEA
AC power	1250
Total Number of Inverter	12
Output (V)	380
Make	KRYFS (1), CENTURY (1), UTTAM(1),Powerware (1)
Transformer KVA	5000, 5000, 5000.50
Total Numb PT ,IDT, Aux	4
SPV Name	Renew karimnagar solar power pvt ltd
Site	KalwaSrirampur
AC Capacity	15
Plant DC Capacity (CEIG)	19.35
DC Capacity Connected	19.35
Tilt details	3& 25
PV technology	Polycrystalline
Make	Risen BYD
specification of module	255, 260, 265, 260
	19248, 21000, 33912
Total No of Module	74160
Make	TBEA
AC power	1250
Total Number of Inverter	12
Output (V)	380
Make	UTTAM (1), CENTURY(2), Powerware (1)
Transformer KVA	5000, 5000, 50
Total Numb PT ,IDT, Aux	4

SPV Name	Renew Fazlika Solar Power Pvt Ltd
Site	Nandipet
AC Capacity	15
Plant DC Capacity (CEIG)	19.41
DC Capacity Connected	19.41
Tilt details	3,15,25
PV technology	Polycrystalline
Make	Risen
specification of module	255, 260, 265
	13464, 57912, 3288
Total No of Module	74832
Make	TBEA
AC power	1250
Total Number of Inverter	12
Output (V)	380
Make	UTTAM (2), KRYFS (1), Powerware(1)
Transformer KVA	5000,5000,50
Total Numb PT ,IDT, Aux	4
SPV Name	ReNew Neemuch Solar Power Pvt Ltd
Site	Godhur
AC Capacity	15
Plant DC Capacity (CEIG)	19.45
DC Capacity Connected	19.45
Tilt details	3&25
PV technology	Polycrystalline
Make	Talesun
specification of module	260, 265
	25896, 48048
Total No of Module	73944
Make	TBEA
AC power	1250
Total Number of Inverter	12
Output (V)	380
Make	Rachyem, KRYFS, PETE, Powerware (1)
Transformer KVA	5000, 5000, 5000, 50
Total Numb PT ,IDT, Aux	4
SPV Name	Sun World Solar Power Private Limited
Site	Jagtial

AC Capacity	30
Plant DC Capacity (CEIG)	39.2
DC Capacity Connected	38.9382
Tilt details	3&25
PV technology	Polycrystalline
Make	Talesun, BYD, Yingli
specification of module	260, 265, 260, 265, 265
	5,94,31,88,625
Total No of Module	148056
Make	TBEA
AC power	1250
Total Number of Inverter	24
Output (V)	380
Make	Voltamp (7), Powerware (2)
Transformer KVA	5000, 50
Total Numb PT ,IDT, Aux	9
SPV Name	ReNew Nizamabad Power Pvt Ltd
Site	Nirmal
AC Capacity	50
Plant DC Capacity (CEIG)	64.627
DC Capacity Connected	64.627
Tilt details	3&25
PV technology	Polycrystalline
Make	Talesun, GCL, BYD
specification of module	260, 265, 265, 270, 255
	24888, 170040, 48504
Total No of Module	243432
Make	Sungrow
AC power	2500
Total Number of Inverter	20
Output (V)	360
Make	AUM (2), PETE (5), VOLTAMP (3), T&R(2) Powerware(2)
Transformer KVA	5000, 5000, 5000, 20000/25000, 50
Total Numb PT ,IDT, Aux	14
SPV Name	ReNew Rewanchal Solar Power Plant
Site	Jangaon

AC Capacity	15
Plant DC Capacity (CEIG)	19.37
DC Capacity Connected	16.72
Tilt details	3 & 25
PV technology	Polycrystalline
Make	BYD Risen
specification of module	260, 265, 260, 265
	31320, 32376
Total No of Module	63696
Make	TBEA
AC power	1250
Total Number of Inverter	12
Output (V)	380
Make	Kryfs(3), PowerWare(1)
Transformer KVA	5000,50
Total Numb PT ,IDT, Aux	4
SPV Name	Renew Warangal Power Private Limited
Site	Mallaram
AC Capacity	15
Plant DC Capacity (CEIG)	19.47
DC Capacity Connected	19.47
Tilt details	3&25
PV technology	Polycrystalline
Make	GCL
specification of module	260, 265, 270
	2184, 46176, 24696
Total No of Module	73056
Make	TBEA Sungrow
AC power	1250*8 2500*2
Total Number of Inverter	10
Output (V)	380
Make	Rachyem (2), AUM (1),Powerware (1)
Transformer KVA	5000, 5000, 50
Total Numb PT ,IDT, Aux	4
SPV Name	ReNew Medak Power Private Limited
Site	Medak
AC Capacity	45

Plant DC Capacity (CEIG)	58.44
DC Capacity Connected	58.45
Tilt details	3&25
PV technology	Polycrystalline
Make	Talesun, GCL, BYD
specification of module	260, 265, 265, 270, 260
	220200
Total No of Module	220200
Make	TBEA
AC power	1250
Total Number of Inverter	36
Output (V)	380
Make	Rachyem(4), KRYFS (2), UTTAM (2), Volt Amp (1) T&R(2), Power Ware(2)
Transformer KVA	5000, 5000, 5000, 5000, 20000/25000, 50
Total Numb PT , IDT, Aux	13
SPV Name	Rangareddy Solar Power Private Ltd
Site	Siricilla
AC Capacity	30
Plant DC Capacity (CEIG)	37.23
DC Capacity Connected	37.22
Tilt details	3&25
PV technology	Polycrystalline
Make	BYD
specification of module	260, 265
	31392, 109704
Total No of Module	141096
Make	TBEA
AC power	1250
Total Number of Inverter	24
Output (V)	380
Make	Rachyem (5), KRYFS (1), Power Ware (2)
Transformer KVA	5000,5000,50
Total Numb PT, IDT, Aux	8

3.2 Deviations

3.2.1 Methodology Deviations

No methodology deviation is applied during the monitoring period.

3.2.2 Project Description Deviations

Deviation 1:

This deviation is a permanent monitoring deviation. The meter reading practice in India is upgrading to optimum level which based on robust technology and requires minimum human intervention. The deviation is for Andhra Pradesh state project having SPV name ACME Bhiwadi Solar Power Pvt Ltd, ACME Hisar Solar Power Private Limited and ACME Karnal Solar Power Private Limited but not limited to further upgradation at another states of India. This deviation is already approved in previous verifications.

The monitoring practice is updated (October 2018) and it's shifted to Deviation Settlement Mechanism (DSM) in order to more strengthen the national grid. The export and import values are omitted and no longer provided, only net export values are being provided for the invoicing to respective boards/government institutions. In DSM, PP have to forecast electrical energy generation in day time blocks (In India, 15 minutes each block, total 96 blocks) well in advance. The invoicing is done on the forecasted value. The actual generation deviation from the forecasted values is penalized, it depends upon the deviation magnitude. Therefore, instead of export and import values, the net values are directly obtained (either by including deviation to the schedule values or directly considering the actual values from the SRPC report) for the emission reduction calculation. The approach doesn't alter the emission reduction and its calculations.

For most of the Indian Southern Region, Total Energy schedule and the Actual values (which is the actual Net delivered) is maintained by the Southern Regional Power Committee (SRPC) Secretariat, Central Electricity Authority, Government of India. Regional Energy Account (monthly net export) for every month in respect of Southern Region has been uploaded on the SRPC website, www.srpc.kar.nic.in. Since the document is provided by government nodal agency, therefore no any cross-checking is required.

The nature of deviation is permanent and already approved in the second verification.

Deviation 2:

Continuation of deviation 1, ACME Rewari Solar Power Pvt Ltd and ACME Kurukshetra Solar Energy Pvt Ltd, the Deviation Settlement Mechanism (DSM) is also applicable to mentioned SPVs. Therefore, instead of export and import values, the net values are directly obtained (either by including deviation to the schedule values or directly considering the actual values from the SRPC report) for the emission reduction calculation. The approach doesn't alter the emission reduction and its calculations. The nature of deviation is permanent.

Deviation 3:

The commissioning date of ACME Bhiwadi Solar Power Pvt Ltd is revised from 01-July-2018 to 05-July-2018. This was the typo error and the nature of deviation is permanent.

Deviation 4:

Mentioned SPVs geodic coordinates are corrected for better identification of over satellite. There has been no change in the design and specification of the SPVs:

Sunworld Solar Power Pvt Ltd	18.57 N	78.86 E
ACME PV Powertech Private Limited (Sadashivpet)	17.58 N	77.89 E
ACME Solar Power Technology Private Limited	16.80 N	78.89 E
ACME Bhiwadi Solar Power Pvt Ltd	14.11 N	78.45 E
ACME Hisar Solar Power Private Limited	14.11 N	78.78 E
Athena Karnal Solar Power Private Limited	14.02 N	78.44 E
Athena Babadham Solar Power Private Limited	15.9 N	76.9 E
Athena Koppal Solar Energy Private Limited	17.21 N	76.77 E
Ayana Chittorgarh Solar Energy Pvt. Ltd	27.35 N	72.14 E
ReNew Narwana Solar Power Pvt Ltd (Lingampet)	18.86 N	78.18 E
ReNew Warangal Solar Power Pvt Ltd	18.57 N	78.86 E
Acme Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	16.69 N	78.42 E
Acme Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)	17.43 N	79.28 E
ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)	16.71 N	78.47 E
ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI)	18.40 N	78.21 E

The above-mentioned deviation are already approved during previous verifications.

Deviation 5:

ACME Bhiwadi Solar Power Pvt Ltd, ACME Hisar Solar Power Private Limited and ACME Karnal Solar Power Private Limited changed to Athena Bhiwadi Solar Power Pvt Ltd, Athena Hisar Solar Power Private Limited and Athena Karnal Solar Power Private Limited respectively. This is only due to the asset transfer between the ACME group and Athena group. The applicable date is 31/03/2021 on which PPA addendum took place. Athena group has been added as project proponent. The design change doesn't alter the project design, monitoring approach, additionality, emission reduction and its calculations. The nature of deviation is permanent.

Deviation 6:

In order to align the monitoring start date and end date with billing cycle, various start and end date of billing cycle has been apportioned using Daily Generation Report of respective SPVs. The apportioning is done on the basis of generation ratio (Generation ratio: DGR's generation for the period covered in the monitoring period/ DGR's Total generation for the month, the ratio is then multiplied with the export and import values). The details are provided in the emission reduction calculation spreadsheet. The design change doesn't alter the project design, monitoring approach and additionality. Through this deviation, the emission reduction and its calculations are aligned to the generation covered in the monitoring period. The nature of deviation is permanent.

Deviation 7:

ACME Rewari Solar Power Pvt Ltd. (50 MW) and ACME Kurukshetra Solar Energy Pvt Ltd. (50 MW) are not a part of the grouped project activity. These SPVs are not being verified and eligible since 01-July-2020. The design change doesn't alter the project design, monitoring approach, additionality, and emission reduction calculations. The nature of deviation is permanent.

- Deviations from 1 have been approved in the second verification (Monitoring period: 01-March-2018 to 31-January-2020 (Inclusive of both days)).
- Deviations 2, Deviations 3, and Deviations 4 have been approved in the third verification (Monitoring period: 01-February-2020 to 24-April-2021 (Inclusive of both days)).
- Deviations 5, Deviations 6, and Deviations 7 have been approved in the fourth verification (Monitoring period: 25-April-2021 to 24-September-2021 (Inclusive of both days)).

Deviation 8:

An asset transfer materialized between ACME Cleantech Solutions Private Limited and ReNew Power Private Limited, ACME Cleantech Solutions Private Limited and Ayana Renewable Power Private Limited for the transfer of assets. The new and old assets owners are tabulated below. However, in the contractual agreement between new and old SPV, the rights of environmental credits holds with ACME Cleantech Solutions Private Limited. Therefore, the accession and revised communication agreement is not required. The contract has been shared with VVB. The design change doesn't alter the project design, monitoring approach, additionality and emission reduction calculations. The nature of deviation is permanent.

Old SPV Owners	New SPV Owners	Asset Transfer date
ACME Fazilka Power Pvt Ltd	ReNew Fazilka Power Pvt Ltd	03-Novemeber-2021
ACME Karimnagar Solar Power Pvt Ltd	ReNew Karimnagar Solar Power Pvt Ltd	03-Novemeber-2021
ACME Warangal Solar Power Pvst Ltd	ReNew Warangal Solar Power Pvt Ltd	03-Novemeber-2021
ACME Narwana Solar Power Pvt Ltd	ReNew Narwana Solar Power Pvt Ltd	03-Novemeber-2021
ACME Ranga Reddy Solar Power Pvt Ltd	ReNew Ranga Reddy Solar Power Pvt Ltd	03-Novemeber-2021
ACME Nizamabad Solar Energy Pvt Ltd	ReNew Nizamabad Solar Energy Pvt Ltd	03-Novemeber-2021
ACME Medak Solar Energy Pvt Ltd	ReNew Medak Solar Energy Pvt Ltd	03-Novemeber-2021
Purvanchal Solar Power Pvt Ltd	ReNew Purvanchal Solar Power Pvt Ltd	03-Novemeber-2021
Rewanchal Solar Power Pvt Ltd	ReNew Rewanchal Solar Power Pvt Ltd	03-Novemeber-2021
Neemuch Solar Power Pvt Ltd	ReNew Neemuch Solar Power Pvt Ltd	03-Novemeber-2021
ACME Chittorgarh Solar Energy Pvt. Ltd	Ayana Renewable Power Private Limited	18-Novemeber-2021

Deviation-9:

Few changes observed in the plant technical details and specifications of equipment's mentioned in *Section 3.1 Implementation status of project activity*. The plant technical equipment configuration in *Table 3 Technical specifications of the plants* is updated due to maintenance and upgradation activity. The equipment reconfigurations doesn't alter project capacity, design changes, calculation of emission reduction, and any impact on additionality, capacity, and PLF of the project. Changes regarding the plant specifications (Inverter and module specifications) are being mentioned in APPENDIX 4: TECHNICAL SPECIFICATIONS.

The Nature of Deviation is permanent.

Deviation-10:

The meters replacement/Monitoring procedure/calibration of the billing meter are completely under State electricity board of Karnataka. The monitoring procedure have been recently updated and the net electricity export have been calculated using "Export- 115% Import", the same net electricity values are reflected in the crosscheck invoices. PP don't have anything to engage with metering and monitoring procedures. The meter is completely taken care of by State Electricity Board. Following SPVs are located in the state of Karnataka.

1. ACME Kaithal Solar Power Private Limited
2. ACME Babadham Solar Power Private Limited
3. ACME Koppal Solar Energy Private Limited
4. ACME Vijayapura Solar Energy Pvt Ltd

The deviation does not negatively impact the conservativeness of the quantification of GHG emission reductions or removals and the deviations relate only to the criteria and procedures for monitoring or measurement, and do not relate to any other part of the methodology. Deviation does not alter additionality, calculation of emission reduction and the project design. The nature of this deviation is permanent.

Deviation-11:

Few Typo error observed in the *Appendix 1: Input Parameters for Additionality Assessment for Respective Project Activities* of the registered VCS Joint PD & MR. Error related to sensitivity analysis values of Sunworld Solar Power Pvt Ltd and ACME Kaithal Solar Power Private Limited. In the registered Joint Project description & Monitoring report, the following table are mentioned of sensitivity analysis.

- Sunworld Solar Power Pvt Ltd:

Sensitivity Analysis	Equity IRR			
Variation %	-10%	Normal	10%	Breaching Value
PLF	6.90%	4.68%	13.15%	16.55%
O&M	10.34%	4.68%	9.37%	-92.54%
Project Cost	12.65%	4.68%	7.80%	-18.29%
Tariff Rate	6.90%	4.68%	13.15%	16.55%

- ACME Kaithal Solar Power Private Limited:

Sensitivity Analysis	Equity IRR			
Variation %	-10%	Normal	10%	Breaching Value
PLF	7.35%	6.87%	14.09%	14.11%
O&M	11.49%	6.87%	9.92%	-68.47%
Project Cost	13.31%	6.87%	8.42%	-17.13%
Tariff Rate	7.35%	6.87%	14.09%	14.12%

The sensitivity has been reassessed with the same values and the table are mentioned below.

The revised sheets are being submitted to VVB for reviews.

- Sunworld Solar Power Pvt Ltd:

Equity IRR without CDM: 4.68%

Benchmark (Equity IRR): 15.32 %

Sensitivity Analysis	Equity IRR			
Variation %	-10%	Normal	10%	Breaching Value
PLF	2.35%	4.68%	7.22%	38.16%
O&M	5.31%	4.68%	4.03%	-177.34%
Project Cost	6.70%	4.68%	3.11%	-35.79%
Tariff Rate	2.35%	4.68%	7.22%	38.16%

- ACME Kaithal Solar Power Private Limited:

Equity IRR without CDM: 6.87 %

Benchmark (Equity IRR): 15.50

Sensitivity Analysis	Equity IRR			
Variation %	-10%	Normal	10%	Breaching Value
PLF	3.90%	6.87%	9.88%	26.74%
O&M	7.69%	6.87%	5.99%	-68.47%
Project Cost	9.13%	6.87%	4.89%	-17.13%
Tariff Rate	7.35%	6.87%	14.09%	26.74%

The deviation does not negatively impact the conservativeness of the quantification of GHG emission reductions or removals. The deviations only correct the typo errors, and do not relate to any other part of the methodology. The Deviation doesn't alter the additionality, project design, monitoring approach, and emission reduction calculations. The nature of deviation is permanent.

Deviation-12:

Below SPV's geodetic coordinates are corrected for better identification of site. The previously mentioned coordinates have slight typo errors. With this deviation, there has been no change in the design and specification of the SPVs. The new and old geodetic coordinates owners are tabulated below.

Name of the SPVs	Old geodetic coordinates		New geodetic coordinates	
	Latitude	Longitude	Latitude	Longitude
Sunworld Solar Power Pvt Ltd	18.57 N	78.86 E	18.82203 N	79.10108 E
ACME Babadham Solar Power Private Limited	15.9 N	76.9 E	15.98979 N	76.93002 E
ReNew Neemuch Solar Power Pvt Ltd	18.9 N	78.60 E	18.79589 N	78.63609 E
ReNew Narwana Solar Power Pvt Ltd (Lingampet)	18.86 N	78.18 E	18.27893 N	78.10435 E

The deviations only correct the typo errors and do not relate to any other part of the methodology. The Deviation doesn't alter the project design, monitoring approach, and emission reduction calculations. The nature of deviation is permanent.

3.3 Grouped Projects

The project is a grouped project activity. However, no any new instances added since first joint validation and verification. Therefore, demonstration of new activity eligibility criteria is not required.

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 ¹³
Value applied	0.9726
Justification of choice of data or description of	Calculated as per "Tool to calculate the emission factor for an electricity system, version 07" as 3-year generation weighted

¹³ https://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver13.pdf

measurement methods and procedures applied	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, 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 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 ¹⁴
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 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, May 2017 ¹⁵
Value applied	0.9475
Justification of choice of data or description of measurement methods and procedures applied	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ Where: EF_{grid,BM,y}= Build margin CO₂ emission factor in year y (tCO₂/MWh) EF_{grid,OM,y}= Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25%

¹⁴ https://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver13.pdf

¹⁵ https://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver13.pdf

	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 crediting period.

4.2 Data and Parameters Monitored

Data / Parameter	EG _{PJ, y}
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (Solar) plant/unit to the grid in year y
Source of data	Telangana, Uttarakhand and Rajasthan-JMR Andhra Pradesh and Karnataka- Regional Energy Account Report
Description of measurement methods and procedures to be applied	The value of net electricity generation supplied to the grid as per Monthly electricity form B /Credit Note or Joint Meter Reading Report forms the basis for calculation of the emission reductions; which can be cross checked from the invoice raised to DISCOM. Net electricity supplied to grid are being calculated as the difference of the measured values of “export” and “import” of electricity through the dedicated SEB energy meter installed at the delivery point. Monthly meter readings are taken from the main and check meter installed at metering point and certified by the representatives of SEB Officials and the representatives of the project proponent
Frequency of monitoring/recording	Continuous monitoring, hourly measurement and at least monthly recording
Value monitored	1,377,912.16 MWh
Monitoring equipment	Monitoring: Bidirectional Tri vector meter is used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters. Class of meter: 0.2s.

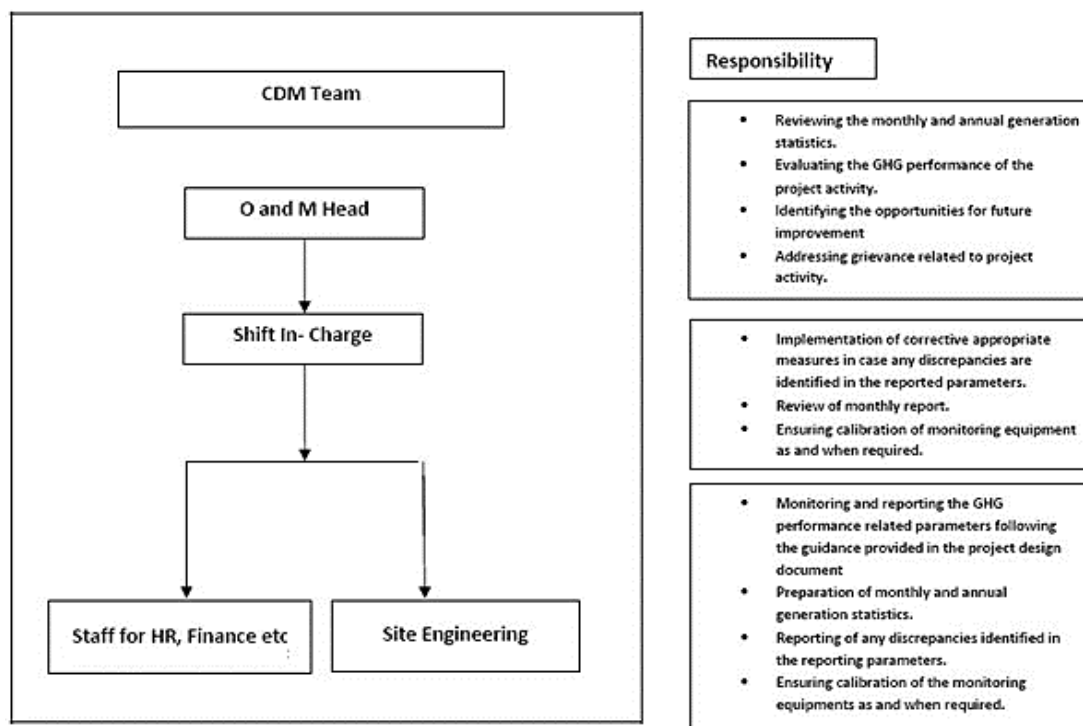
	Calibration frequency: One in five years¹⁶ The meter details, make, calibration date, due date and respective accuracy class are mentioned in the APPENDIX 1: Calibration details
QA/QC procedures to be applied	The calibration of all the meters is undertaken at required intervals (once is five years as per CEA notification) and faulty meters are duly replaced immediately. The meters accuracy class is 0.2s. The meter accuracy class and calibration interval are under purview of state electricity board and PP does not have any control on it. It is also noted that apportioning procedure is under control of state electricity board and PP do not have any control on it. The available parameter to PP is the net electricity supplied to grid and same parameter is mentioned as monitoring parameter. The Net electricity exported to the grid is being cross checked against the invoice raised by the PP towards the DISCOM.
Purpose of the data	Calculation of baseline emissions
Calculation method	Net electricity supplied to grid is calculated as the difference of the measured values of “export” and “import” of electricity through the dedicated SEB energy meter installed at the delivery point, which can be cross checked from the invoice raised to DISCOM.
Comments	Data is being archived in paper & electronic form for two years after the end of crediting period or of the last issuance of VERs for this project activity, whichever occurs later.

4.3 Monitoring Plan

The monitoring plan is developed in accordance with the modalities and procedures for VCS project activities and is proposed for grid-connected solar power project. The monitoring plan, which implemented by the project participant describes about the monitoring organization, 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 rests with the project participant. 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:

¹⁶ https://www.aegcl.co.in/wp-content/uploads/2020/12/Metering_Regulations_Of_CEA_17_03_2006.pdf



Data Measurement

The export and import energy values are measured continuously using above-mentioned Main and Check meters located at the substations. Readings of meters taken on monthly basis by authorized officer of SEB in the presence of PP or representative of PP. Based on the Meter Reading Statement, invoices are being raised. These invoices can be used for cross checking the meter readings taken for the respective project activity.

QA & QC Procedures to be followed

Necessary check meters as required have been installed, to operate in standby mode or when the main meters are not working. All meters are calibrated at least once in five year as per CEA notification. Records of calibration certificates are 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 instances owner do not have any control on it.

Data collection and archiving

Readings from meters collected in the presence of the plant in-charge. Export and Import data recorded and stored in logs as well as in electronic form on a daily basis. The records are checked periodically by the Plant Manager and discussed thoroughly with the plant supervisor. The period of storage of the monitored data would be 2 years after the end of crediting period or till the last issuance of VERs for the project activity whichever occurs later.

Emergency preparedness

The project activity not result in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized.

Personnel training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff are being trained. The plant helps trained in equipment operation, data recording, reports writing, operation and maintenance and emergency procedures in compliance with the monitoring plan.

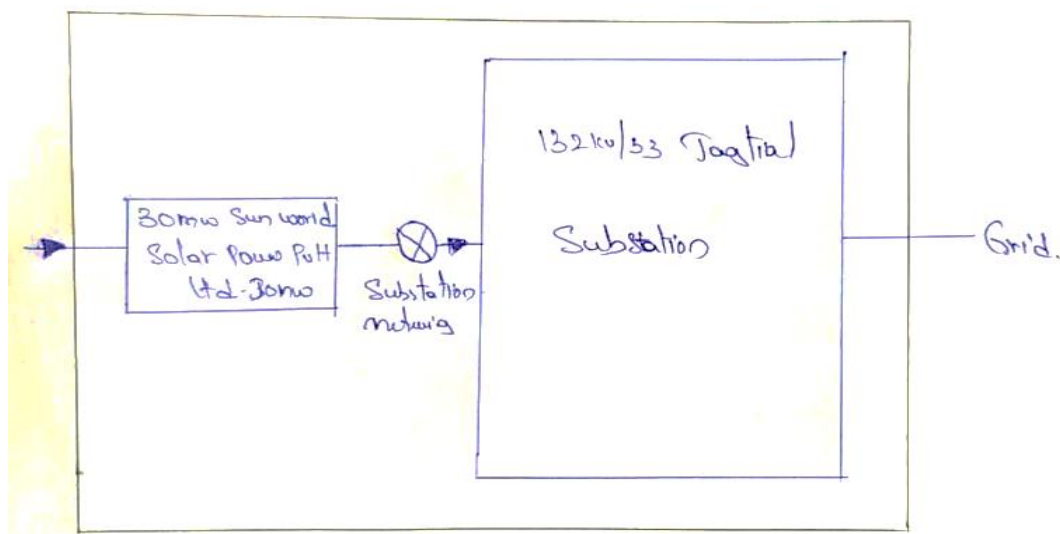


Figure 2 Line diagram of Sunworld Solar Power Pvt. Ltd.

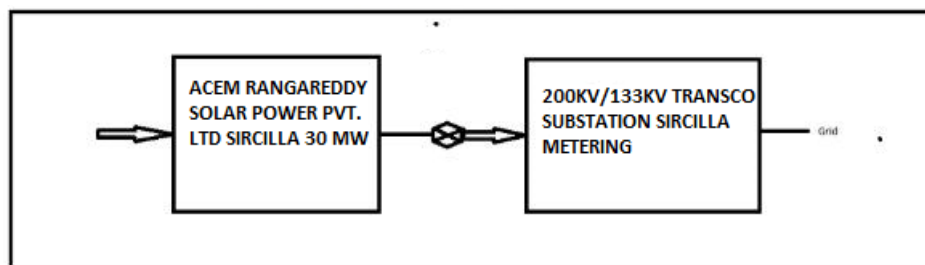


Figure 3 Line diagram of ReNew Ranga Reddy Solar Power Pvt. Ltd.

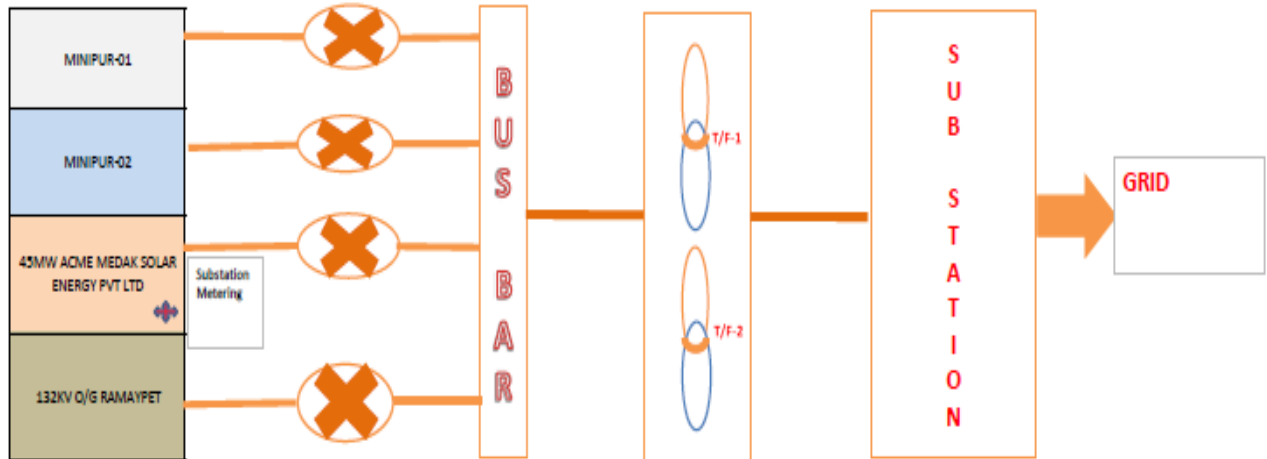


Figure 4 Line diagram of ReNew Medak Solar Energy Pvt. Ltd.

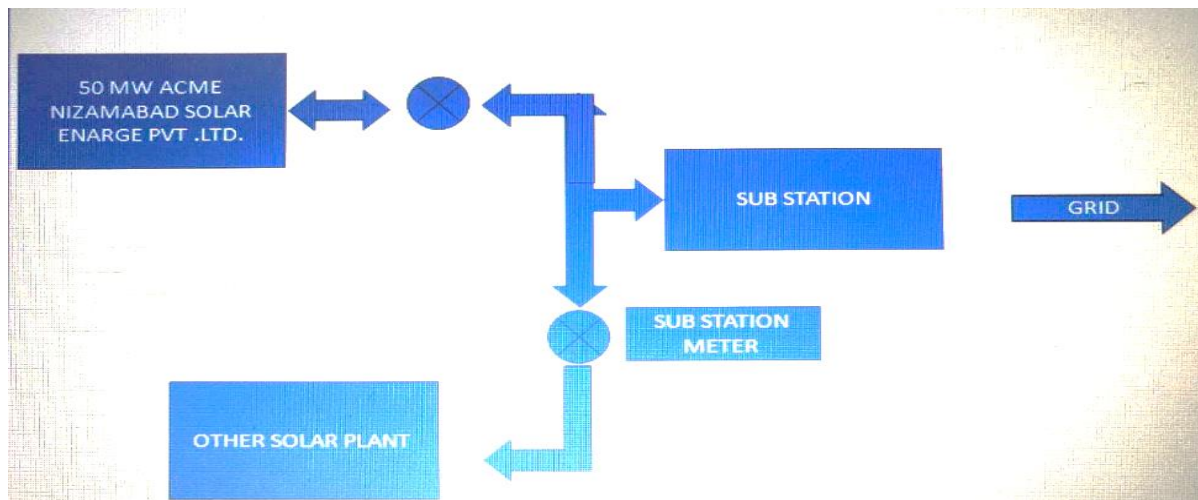


Figure 5 Line diagram of ReNew Nizamabad Solar Energy Pvt. Ltd.

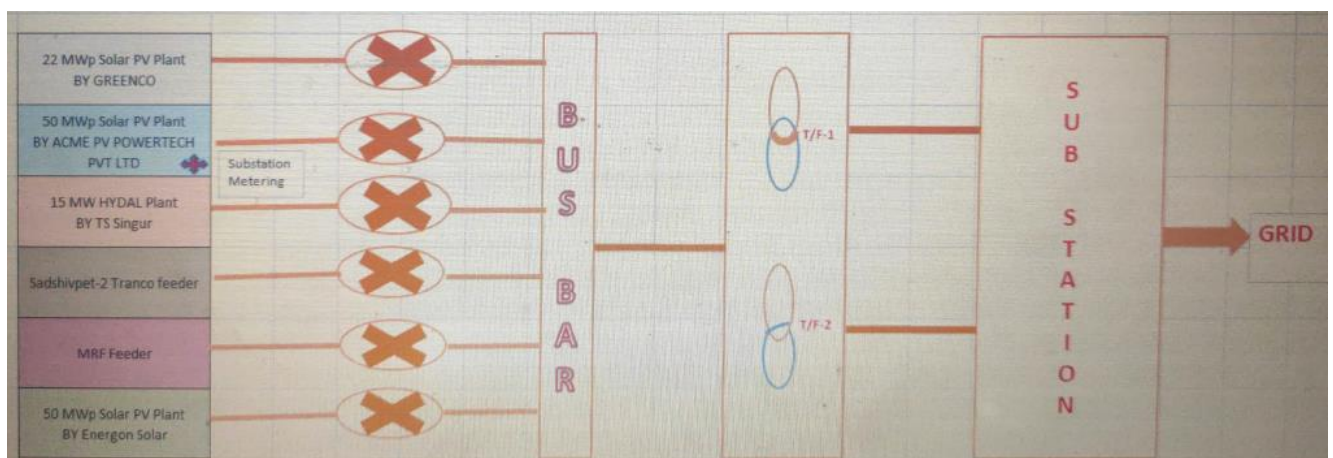


Figure 6 Line diagram of ACME PV Powertech Private Limited

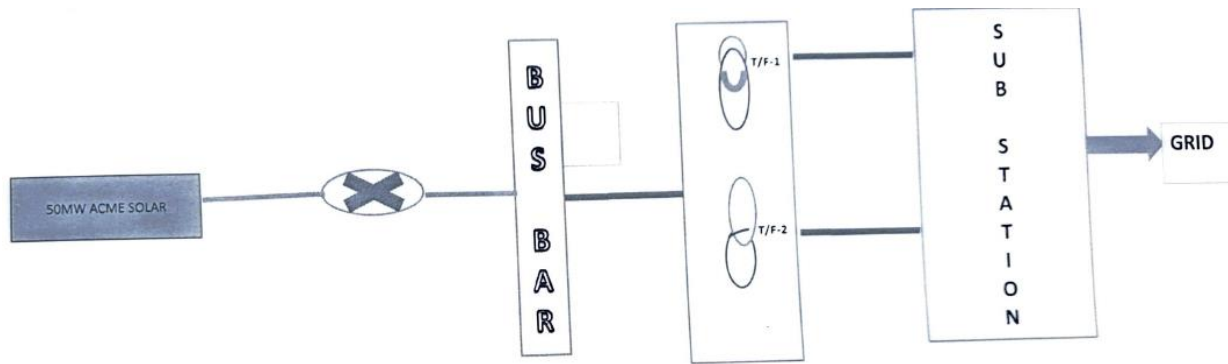


Figure 7 Line diagram of ACME Solar Power Technology Private Limited

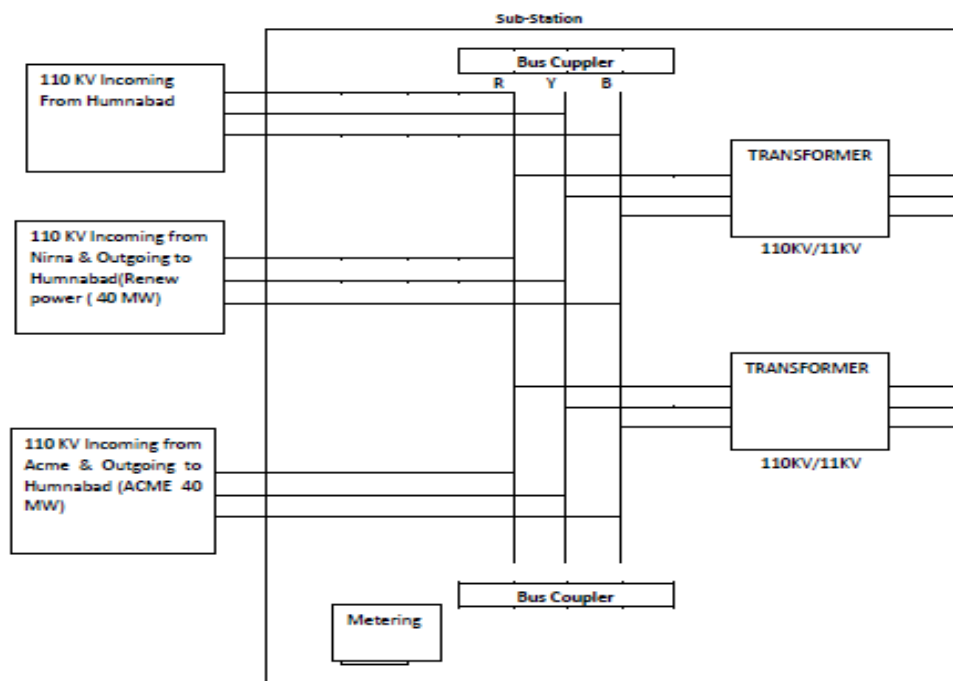


Figure 8 Line diagram of ACME Kaithal Solar Power Private Limited

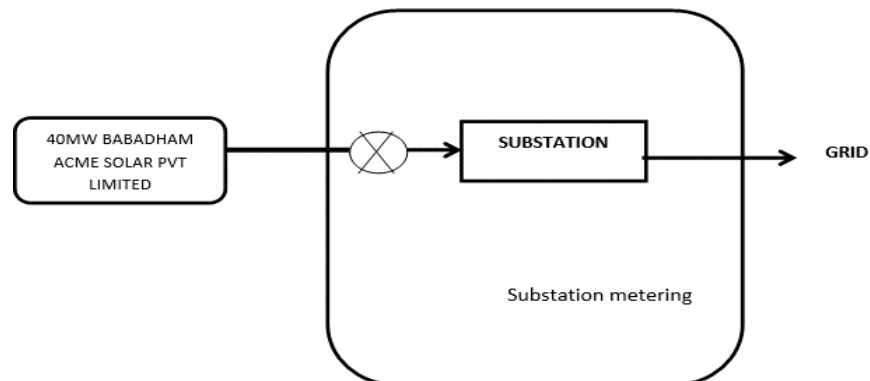


Figure 9 Line diagram of ACME Babadham Solar Power Private Limited

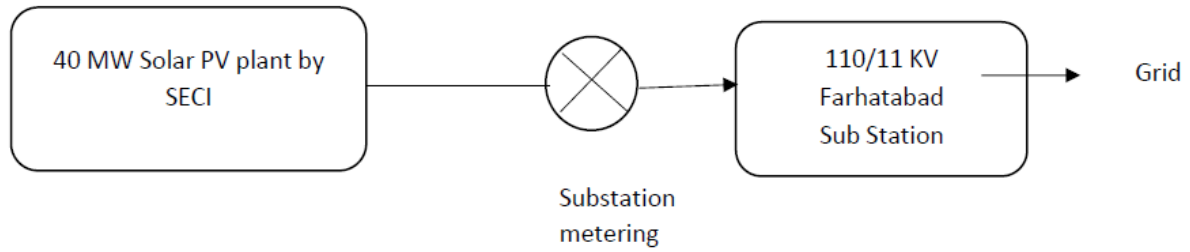


Figure 10 Line diagram of ACME Koppal Solar Energy Private Limited

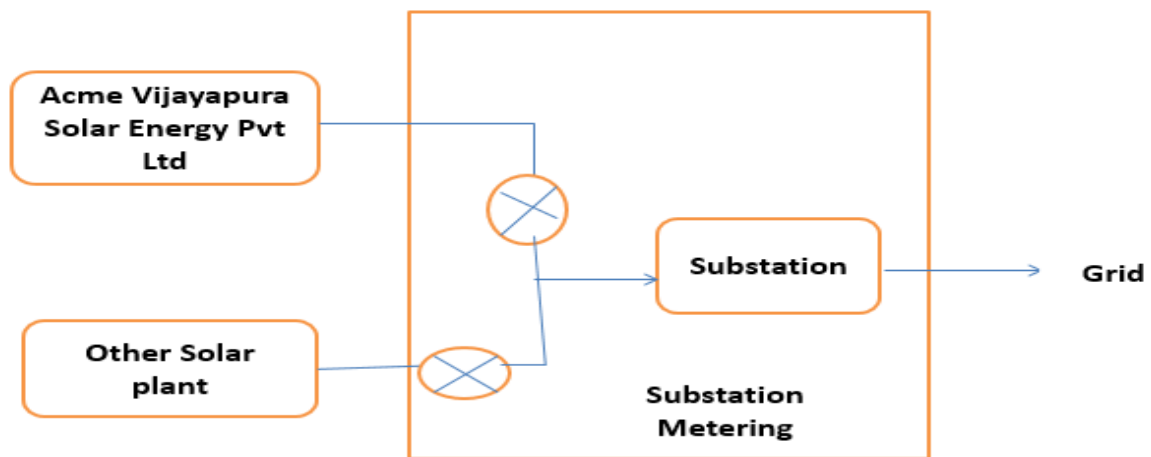


Figure 11 Line diagram of ACME Vijayapura Solar Energy Pvt. Ltd.

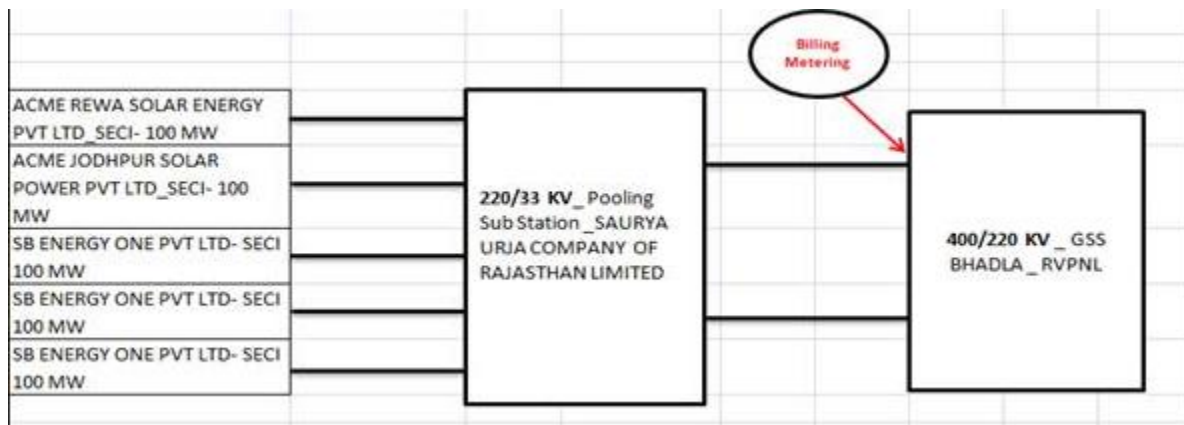


Figure 12 Line diagram of ACME Rewa Solar Energy Pvt. Ltd.

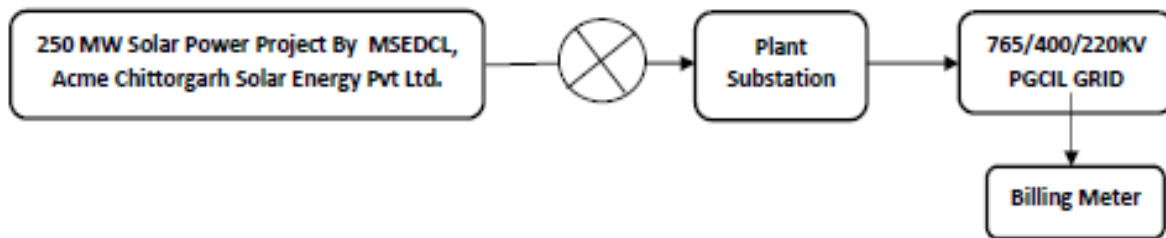


Figure 13 Line diagram of Ayana Chittorgarh solar energy Pvt. Ltd.

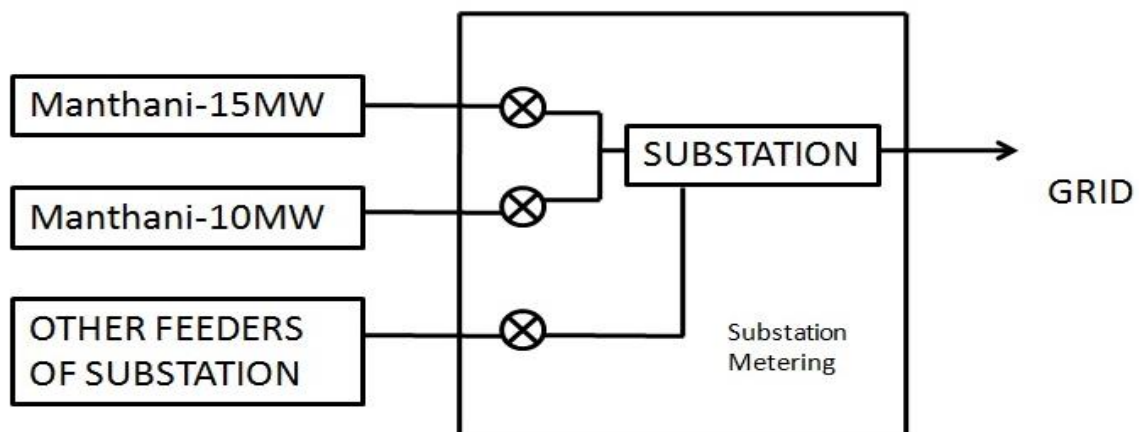


Figure 14 Line diagram of ReNew Purvanchal Solar Power Pvt. Ltd.

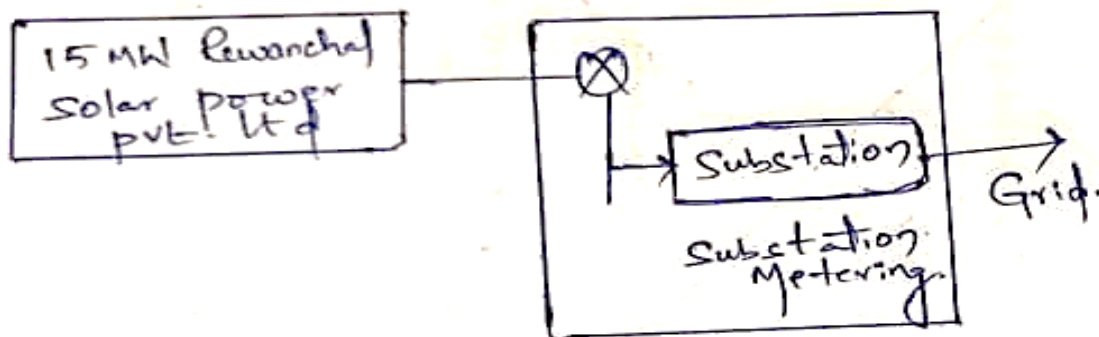


Figure 15 Line diagram of ReNew Rewanchal Solar Power Pvt. Ltd.

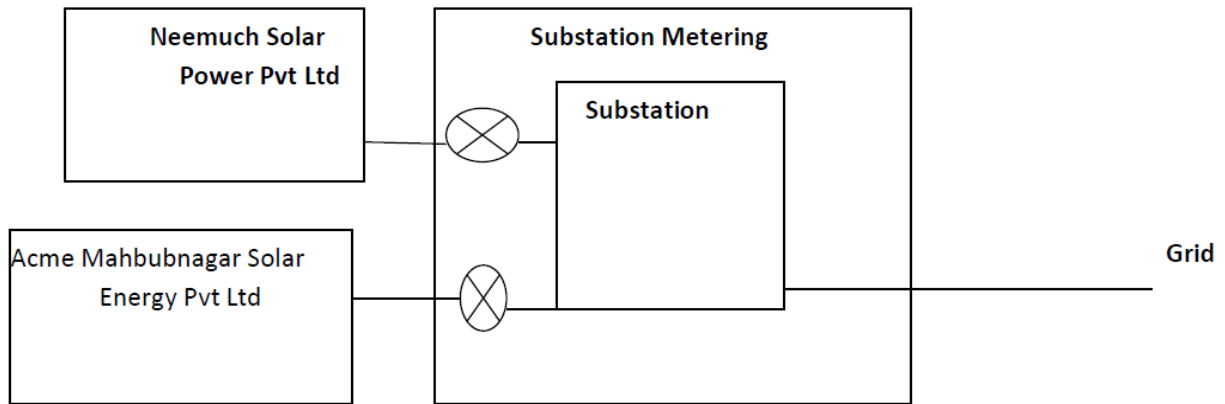


Figure 16 Line diagram of ReNew Neemuch Solar Power Pvt. Ltd.

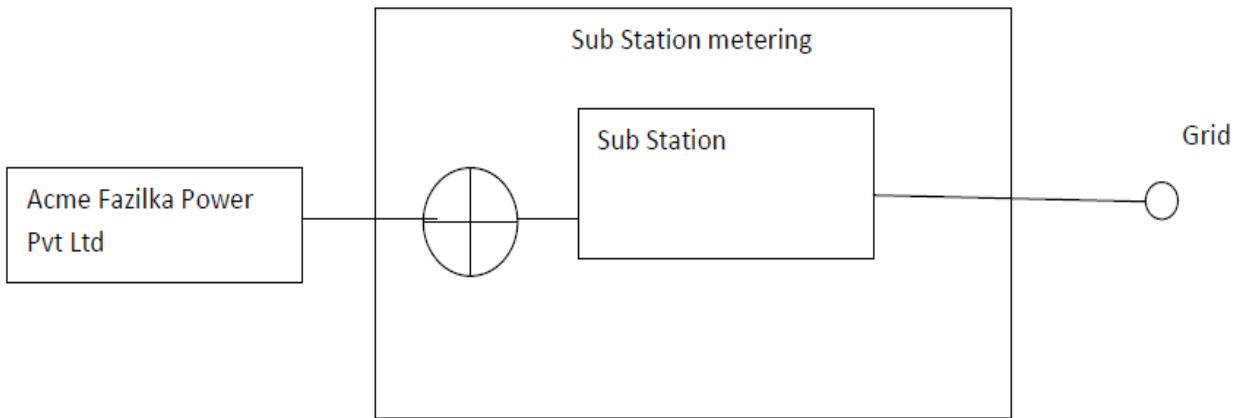


Figure 17 Line diagram of ReNew Fazilka Power Pvt. Ltd.

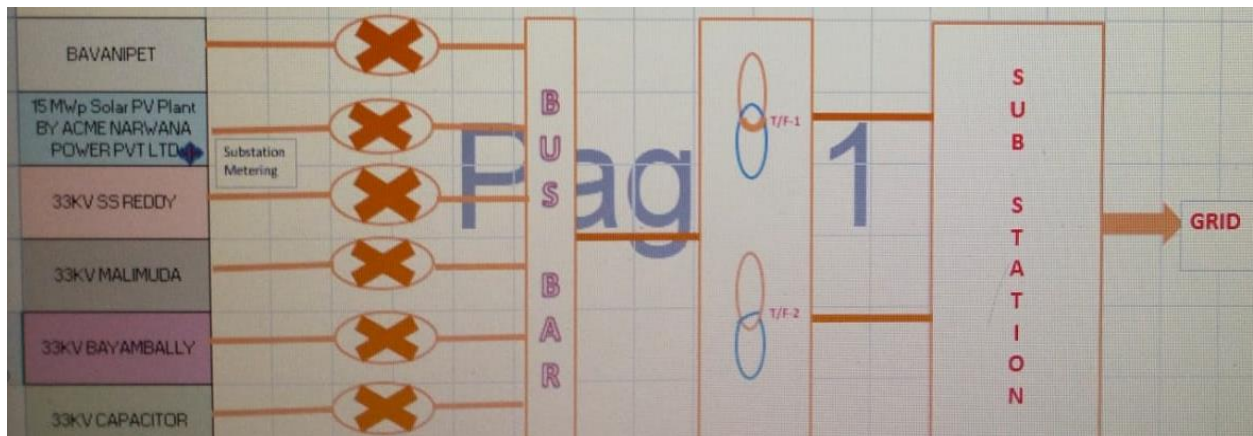


Figure 18 Line diagram of ReNew Narwana Solar Power Pvt. Ltd.

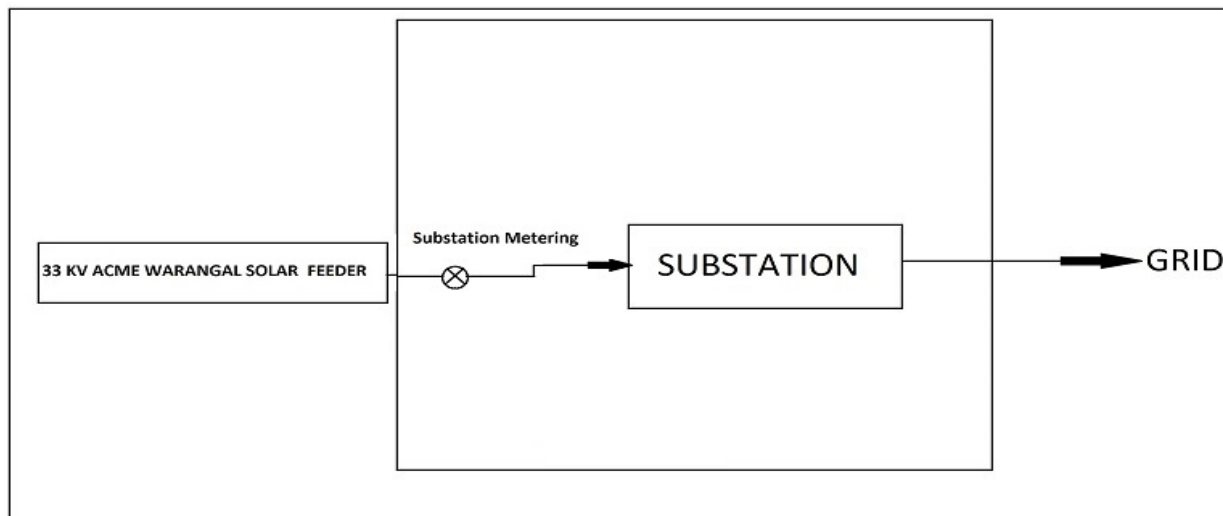


Figure 19 Line diagram of ReNew Warangal Solar Power Pvt. Ltd.

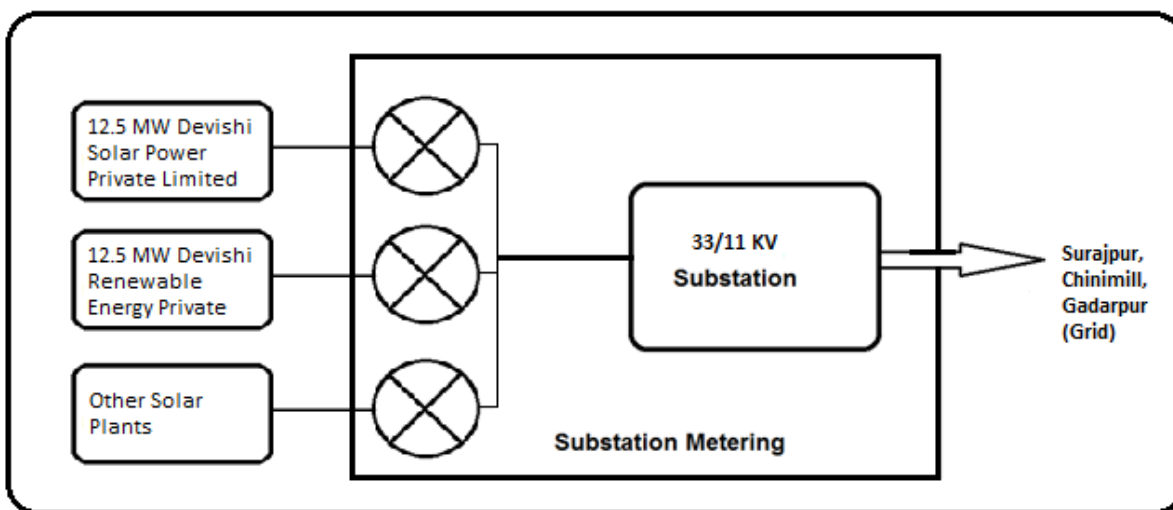


Figure 20 Line diagram of Devishi Renewable Energy Pvt. Ltd.

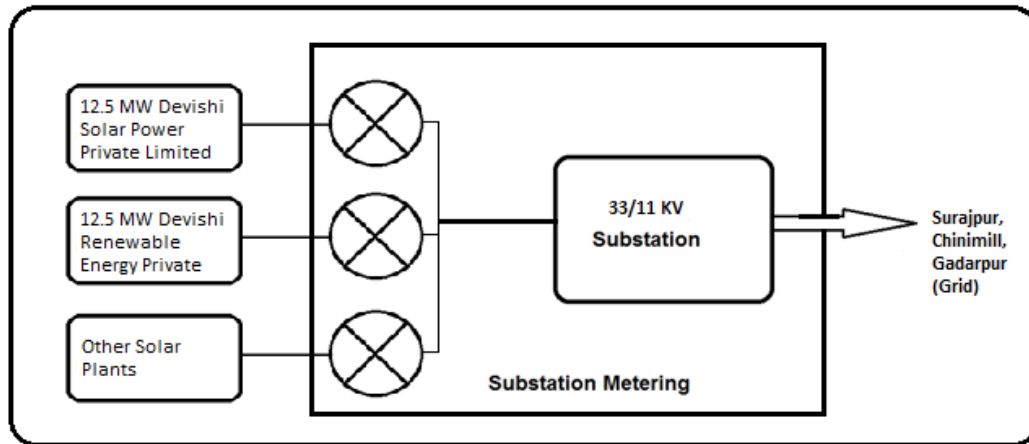


Figure 21 Line diagram of Devishi solar Pvt. Ltd.

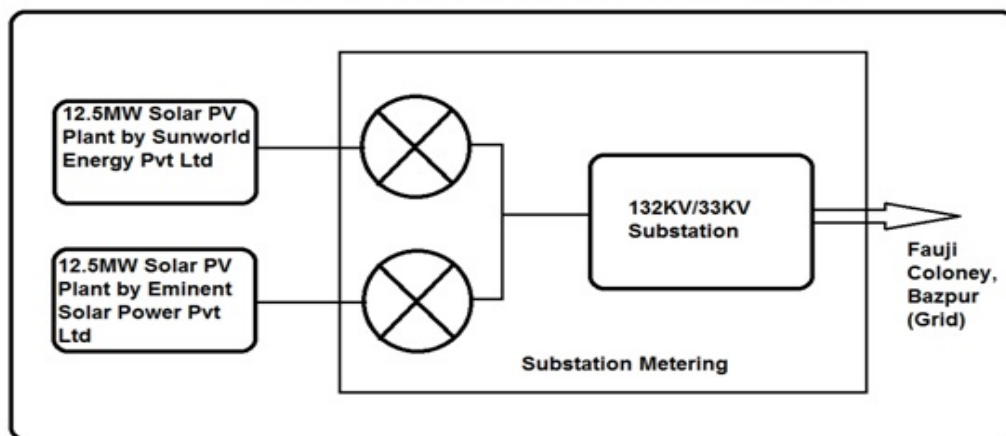


Figure 22 Line diagram of Sunworld Energy Pvt. Ltd.

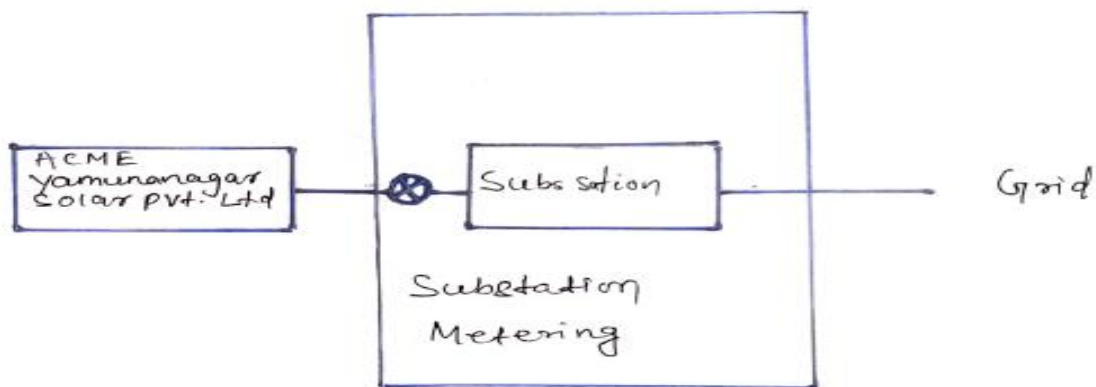


Figure 23 Line diagram of ACME Yamunanagar Solar Power Pvt. Ltd-1 (KOSGI)

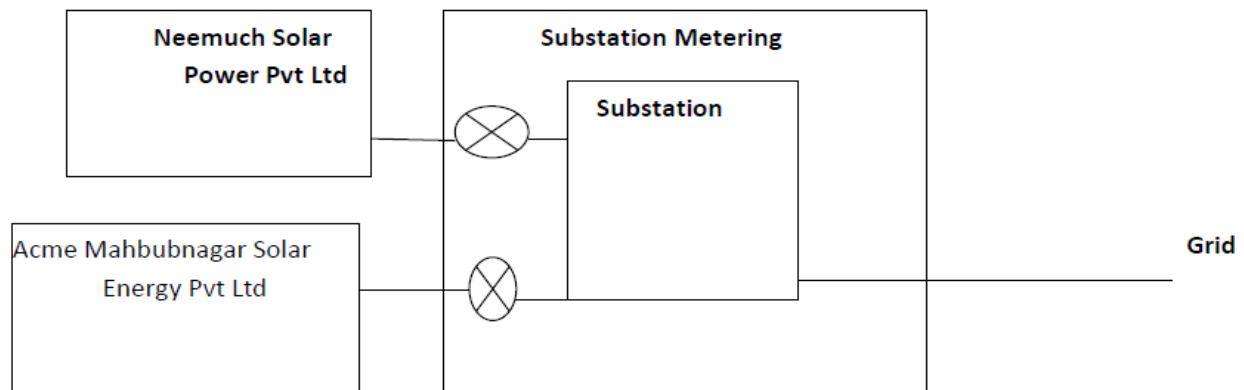


Figure 24 Line diagram of ACME Mahbubnagar Solar Energy Pvt. Ltd-2 (GODHUR)

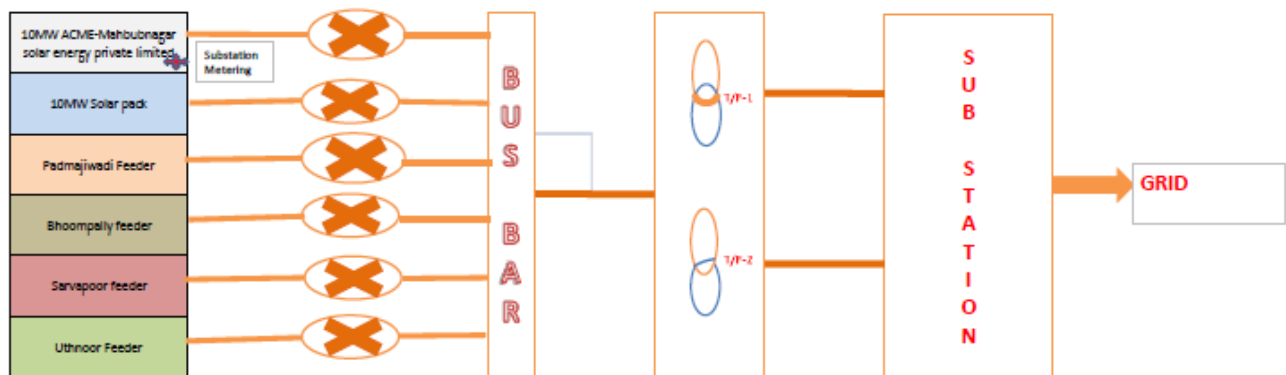


Figure 25 Line diagram of ACME Mahbubnagar Solar 3 (PADMAJIWADI)

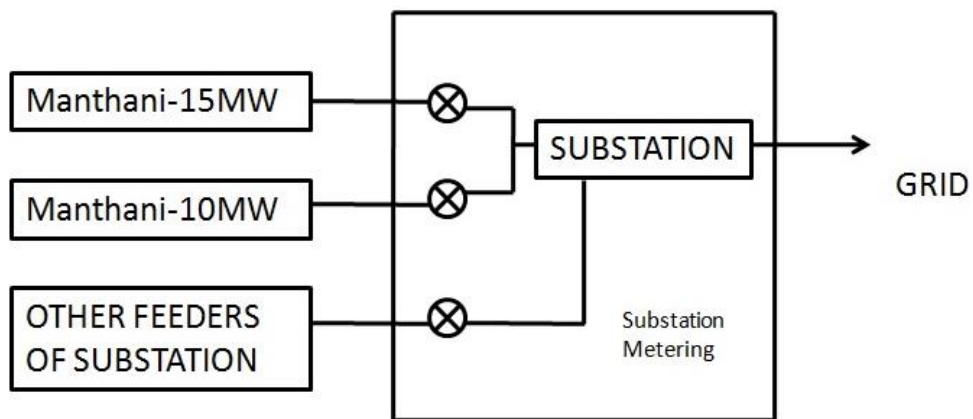


Figure 26 Line diagram of ACME Mahbubnagar Solar 1 (MANTHANI)

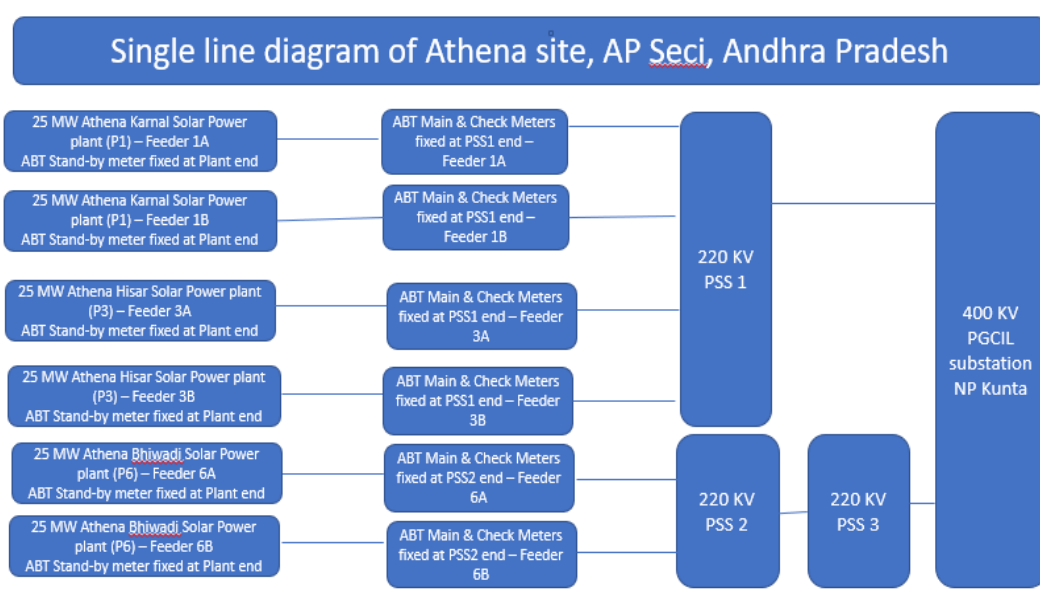


Figure 27 Line diagram of Athena site (Karnal solar Power, Hisar Solar Power, and Bhiwadi Solar Power)

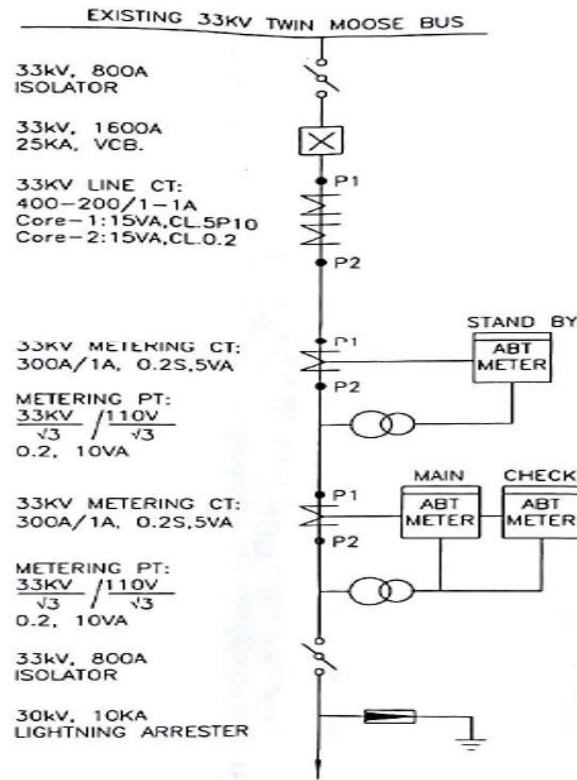


Figure 28 ReNew Karimnagar Solar Private Limited

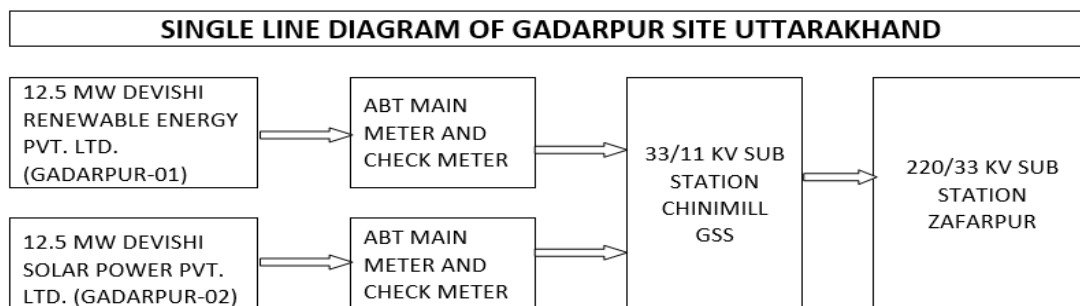


Figure 29 Single line Block Diagram of Devishi Solar and Devishi Renewable

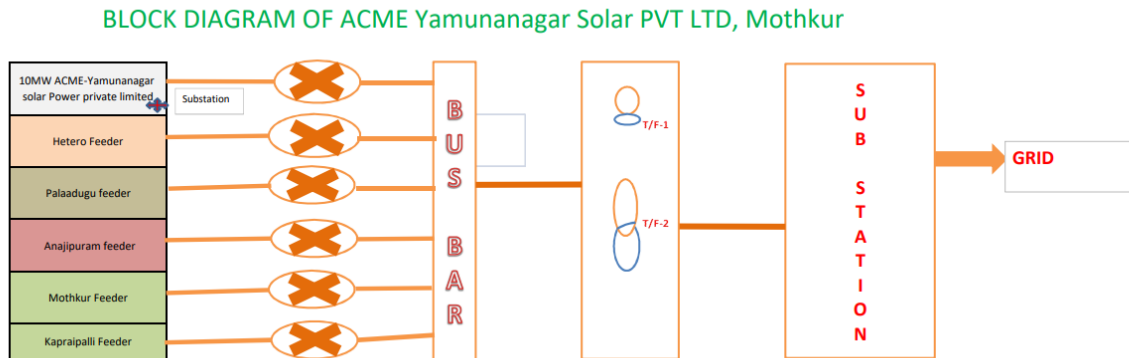


Figure 30 Single line block diagram of ACME Yamunanagar Solar Private Limited, Mothkur

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

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

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

Where,

BE_y = Baseline Emissions in year y; tCO₂e

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

$EF_{grid, CM, y}$ = CO₂ emission factor of the grid in year y; tCO₂e/MWh

Thus

$$\begin{aligned}
 BE_y &= 1,377,912.16 * 0.9475 \\
 &= 1,305,548 \text{ tCO}_2\text{e (round down values)}
 \end{aligned}$$

Note that above value of emissions is summation of rounded down for each SPV, thus overall value is less than simply multiplication of $1,377,912.16 * 0.9475 = 1,305,571 \text{ tCO}_2\text{e}$

5.2 Project Emissions

As per methodology AMD I.D. Version 18.0 and ACM0002 Version 19.0, for renewable energy projects, there is no any project emissions occurred.

Hence, $PE_y = 0$

5.3 Leakage

As per methodology AMD I.D. Version 18.0 and ACM0002 Version 19.0, for renewable energy projects, there is no any leakage emissions occurred.

Hence, $LE_y = 0$

5.4 Net GHG Emission Reductions and Removals

The Formula used to calculate the net emission reduction for the project activity is

$$ER_y = BE_y - PE_y - LE_y$$

Where,

ER_y = Emission Reduction in tCO_2/year

BE_y = Baseline emission in tCO_2/year

PE_y = Project emissions in tCO_2/year

LE_y = Leakage Emissions in tCO_2/year

For the project activity during the current monitoring period, as per section 5.1

$$BE_y = 1,305,548 \text{ tCO}_2\text{e}$$

$$PE_y = 0 \text{ tCO}_2\text{e}$$

$$LE_y = 0 \text{ tCO}_2\text{e}$$

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
25-September-2021 to 31-December-2021	552,518	0	0	552,518
01-January-2022 to 25-April-2022	753,030	0	0	753,030

Total	1,305,548	0	0	1,305,548
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During the current monitoring period, actual emission reductions achieved are 1,305,548 tCO₂e whereas estimated emission reductions was 1,212,985¹⁷ tCO₂e. The project witnessed an increase of 7.63% in emission reductions as compared to ex-ante emissions, which is due to natural phenomena and nature dependent and cannot be controlled by the Project Proponent.

Though the emission reduction amount is higher during the current monitoring period but additionality of the project activity is not influenced as the PLF breaching value with respect to registered PD sensitivity analysis is below the breaching benchmark values. The current monitoring period doesn't cover the complete year but the PLF has been calculated for all SPVs. 6 SPVs have been identified that breach the sensitivity mark, therefore one latest complete year (2021) generation values are considered for PLF variation. The one-year PLF variation is within the breaching limits, therefore the higher emission reduction is justified for the current monitoring period. The scenarios is tabulated below.

Table 4 PLF Variations of all SPVs

PLF Justification for current monitoring period					PLF Justification for the current monitoring period as per total generation of year 2021			
Observed PLF for current monitoring period	PLF at the time of Validation	PLF Variations	PLF Additionality Breaching Values as per sensitivity analysis	Additionality breached due to increased PLF	Net generation for Year 2021	Observed PLF for Year 2021	PLF Variations	Additionality breached due to increased PLF
22.73 %	19.00%	19.64%	38.16%	No	56,521.39	21.51%	13.20%	No
21.06 %	19.00%	10.84%	33.66%	No	Not Applicable, as these are justified with the current monitoring period.			
23.25 %	19.00%	22.37%	36.90%	No				
22.46 %	19.00%	18.23%	35.79%	No				
22.83 %	19.00%	20.16%	30.32%	No				
22.62 %	19.00%	19.07%	30.32%	No				
25.44 %	19.00%	33.90%	26.18%	Yes	79,206.08	18.08%	-4.82%	No
25.03 %	19.00%	31.72%	26.18%	Yes	78,605.70	17.95%	-5.54%	No

¹⁷ ER Estimation for Current Monitoring Period is based on pro rata basis.

25.46 %	19.00%	34.01%	26.18%	Yes	79,145.37	18.07%	-4.90%	No
24.11 %	19.00%	26.92%	26.74%	Yes	80,407.66	22.95%	20.78%	No
24.26 %	19.00%	27.71%	26.74%	Yes	82,888.35	23.66%	24.50%	No
24.00 %	19.00%	26.32%	26.74%	No	Not Applicable, as these are justified with the current monitoring period.			
24.34 %	19.00%	28.08%	26.74%	Yes	79,772.57	22.77%	19.82%	No
27.62 %	23.50%	17.55%	26.58%	No	Not Applicable, as these are justified with the current monitoring period.			
26.42 %	23.50%	12.41%	20.18%	No				
21.71 %	22.15%	-1.97%	Not Applicable as these are small-scale project activities.					
22.88 %	22.15%	3.30%						
19.19 %	22.15%	-13.38%						
22.82 %	22.15%	3.04%						
22.32 %	22.15%	0.78%						
22.04 %	22.15%	-0.51%						
22.84 %	22.15%	3.13%						
18.73 %	20.00%	-6.36%						
18.64 %	20.00%	-6.79%						
16.04 %	20.00%	-19.82%						
24.28 %	22.15%	9.60%						
23.37 %	22.15%	5.52%						
23.26 %	22.15%	5.03%						
25.18 %	22.15%	13.69%						
23.17 %	22.15%	4.58%						

Emission reduction breakdown with all SPVs:

Table 5 Emission reduction breakdown and Net electricity with all SPVs

Activity Instance	SPVs	Capacity (MW)	Net electricity (KWh)	Emission Reductions (tCO ₂ e)		Total
				2021	2022	

1	Sunworld Solar Power Pvt Ltd	30.0	34,860,100	14,492	18,537	33,029
	ReNew Ranga Reddy Solar Power Pvt Ltd	30.0	32,296,000	13,149	17,451	30,600
	ReNew Medak Solar Energy Pvt Ltd	45.0	53,483,200	22,133	28,542	50,675
	ReNew Nizamabad Solar Energy Pvt Ltd	50.0	57,418,039	23,592	30,811	54,403
	ACME PV Powertech Private Limited (Sadashivpet)	50.0	58,354,612	23,960	31,330	55,290
	ACME Solar Power Technology Private Limited	50.0	57,825,686	23,469	31,320	54,789
	Athena Bhiwadi Solar Power Pvt Ltd	50.0	65,024,793	22,849	38,761	61,610
	Athena Hisar Solar Power Private Limited	50.0	63,967,891	22,939	37,670	60,609
	Athena Karnal Solar Power Private Limited	50.0	65,078,727	23,008	38,653	61,661
	ACME Kaithal Solar Power Private Limited	40.0	49,309,157	19,864	26,856	46,720
	ACME Babadham Solar Power Private Limited	40.0	49,615,191	19,305	27,705	47,010
	ACME Koppal Solar Energy Private Limited	40.0	49,078,262	20,237	26,264	46,501
	ACME Vijayapura Solar Energy Pvt Ltd	40.0	49,761,854	20,156	26,993	47,149
	ACME Rewa Solar Energy Pvt Ltd	100.0	141,211,323	58,389	75,408	133,797
	Ayana Chittorgarh Solar Energy Pvt. Ltd	250.0	337,595,008	1,37,612	1,82,258	319,870
2	ReNew Karimnagar Solar Power Pvt Ltd	15.0	16,650,688	6,893	8,882	15,775
3	ReNew Purvanchal Solar Power Pvt Ltd	15.0	17,545,300	7,293	9,330	16,623
4	ReNew Rewanchal Solar Power Pvt Ltd	15.0	14,712,350	5,820	8,119	13,939
5	ReNew Neemuch Solar Power Pvt Ltd	15.0	17,500,901	6,976	9,605	16,581
6	ReNew Fazilka Power Pvt Ltd (Nandipet)	15.0	17,117,780	7,060	9,159	16,219
7	ReNew Narwana Solar Power Pvt Ltd (Lingampet)	15.0	16,897,381	6,897	9,112	16,009
8	ReNew Warangal Solar Power Pvt Ltd	15.0	17,515,600	7,100	9,495	16,595
9	Devishi Renewable Energy Pvt Ltd	12.5	11,966,703	5,174	6,164	11,338
10	Devishi Solar Power Pvt Ltd	12.5	11,912,518	5,100	6,187	11,287
11	Sunworld Energy Pvt Ltd	12.5	10,247,525	4,404	5,305	9,709
12	ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	10.0	12,410,066	4,841	6,917	11,758

13	ACME Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)	10.0	11,947,844	4,719	6,601	11,320
14	ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)	10.0	11,892,252	4,905	6,362	11,267
15	ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI)	10.0	12,873,307	5,219	6,977	12,196
16	ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)	10.0	11,842,100	4,963	6,256	11,219
Total (MW)		1,107.50	1,377,912.16	552,518	753,030	1,305,548

APPENDIX 1: CALIBRATION DETAILS

Since metering arrangement, monitoring practice, accuracy class, calibration interval is under control of state electricity board, the PP do not have any control on monitoring practice and calibration of meters.

The Energy Meters details used for commissioned project activity is tabulated below:

Table 6. SPV meter details

Project Instance Number	Name of the SPVs	Capacity (MW)	Main Meter Details	Check Meter Details	Calibration Date	Due date
1	Sunworld Solar Power Pvt Ltd	30	SL. No. APZ00191 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00192 Make: Secure Accuracy class: 0.2 s	17-December-2019	16-December-2024
	ReNew Ranga Reddy Solar Power Pvt Ltd	30	SL. No. APZ00197 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00198 Make: Secure Accuracy class: 0.2 s	29-November-2019	28-November-2024
	ReNew Medak Solar Energy Pvt Ltd	45	SL. No. APZ00188 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00189 Make: Secure Accuracy class: 0.2 s	29-October-2020	28-October-2025
	ReNew Nizamabad Solar Energy Pvt Ltd	50	SL. No. APZ00194 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00195 Make: Secure Accuracy class: 0.2 s	21-March-2020	20-March-2025
	ACME PV Powertech Private Limited (Sadashivpet)	50	SL. No. APZ00200 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00201 Make: Secure Accuracy class: 0.2 s	19-September-2020	18-September-2025

	ACME Solar Power Technology Private Limited	50	SL. No. APZ00185 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00186 Make: Secure Accuracy class: 0.2 s	09-November-2020	08-November-2025
	Athena Bhiwadi Solar Power Pvt Ltd	50	SL. No.: AT-0501-A Make: Larsen & Toubro Limited Accuracy Class: 0.2s	SL. No.: AT-0502-A Make: Larsen & Toubro Limited Accuracy Class: 0.2s	10-September-2018	09-September-2023
	Athena Hisar Solar Power Private Limited	50	SL. No. AT-0496-A Make: Larsen & Toubro Limited Accuracy Class: 0.2s	SL. No. AT-0495-A Make: Larsen & Toubro Limited Accuracy Class: 0.2s	10-September-2018	09-September-2023
	Athena Karnal Solar Power Private Limited	50	SL. No. AT-0507-A Make: Larsen & Toubro Limited Accuracy Class: 0.2s	SL. No. AT-0508-A Make: Larsen & Toubro Limited Accuracy Class: 0.2s	10-September-2018	09-September-2023
	ACME Kaithal Solar Power Private Limited	40	SL. No. 17054932 Accuracy class: 0.2 s	SL. No. 17054938 Accuracy class: 0.2 s	03-March-2018	02-March-2023
	ACME Babadham Solar Power Private Limited	40	SL. No. 16113468 Accuracy class: 0.2 s	SL. No. 17069195 Accuracy class: 0.2 s	18-August-2020	17-August-2025
	ACME Koppal Solar Energy Private Limited	40	SL. No. 17115504 Accuracy class: 0.2 s	SL. No. 17069212 Accuracy class: 0.2 s	20-July-2020	19-July-2025

	ACME Vijayapura Solar Energy Pvt Ltd	40	SL. No. 17054962 Accuracy class: 0.2 s	SL. No. 17054957 Accuracy class: 0.2 s	09-June- 2020	08-June- 2025
	ACME Rewa Solar Energy Pvt Ltd	100	SL. No. 18053541 Make: L&T Accuracy Class: 0.2s	Sl. No. 18053542 Make: L&T Accuracy Class: 0.2s	16- Septembe r-2020	15- Septemb er-2025
	Ayana Chittorgarh Solar Energy Pvt. Ltd	250	SL. No. 18053539 Make: L&T Accuracy Class: 0.2s	Sl. No. 18053540 Make: L&T Accuracy Class: 0.2s	26- Septembe r-2021	25- Septemb er-2026
2	ReNew Karimnagar Solar Power Pvt Ltd	15	SL. No. APZ00131 Make: Secure Apex 150 Accuracy class: 0.2 s	SL. No. APZ00132 Make: Secure Apex 150 Accuracy class: 0.2 s	09- January- 2021	08- January- 2026
3	ReNew Purvanchal Solar Power Pvt Ltd	15	SL. No. APZ00102 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00103 Make: Secure Accuracy class: 0.2 s	16- November- 2019	15- Novembe r-2024
4	ReNew Rewanchal Solar Power Pvt Ltd	15	SL. No. APZ00106 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00107 Make: Secure Accuracy class: 0.2 s	05- January- 2021	04- January- 2026
5	ReNew Neemuch Solar Power Pvt Ltd	15	SL. No. APZ00111 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00112 Make: Secure Accuracy class: 0.2 s	18-July- 2019	17-July- 2024
6	ReNew Fazilka Power Pvt Ltd (Nandipet)	15	SL. No. APZ00116 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00117 Make: Secure Accuracy class: 0.2 s	21-June- 2019	22-June- 2024

7	ReNew Narwana Solar Power Pvt Ltd (Lingampet)	15	SL. No. APZ00126 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00127 Make: Secure Accuracy class: 0.2 s	23-July- 2020	22-July- 2025
8	ReNew Warangal Solar Power Pvt Ltd	15	SL. No. APZ00121 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00122 Make: Secure Accuracy class: 0.2 s	13- December -2019	12- Decembe r-2024
9	Devishi Renewable Energy Pvt Ltd	13	SL. No. UKD02401 Make: Secure Accuracy class: 0.2 s	SL. No. UKD02402 Make: Secure Accuracy class: 0.2 s	01- November- 2019	31- October- 2024
10	Devishi Solar Power Pvt Ltd	13	SL. No. UKD02400 Make: Secure Accuracy class: 0.2 s	SL. No. UKD02399 Make: Secure Accuracy class: 0.2 s	01- November- 2019	31- October- 2024
11	Sunworld Energy Pvt Ltd	13	SL. No. UKD02416 Make: Secure Accuracy class: 0.2 s	SL. No. UKD02417 Make: Secure Accuracy class: 0.2 s	10- Septembe r-2021	09- Septemb er-2026
12	ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	10	SL. No. APZ00321 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00322 Make: Secure Accuracy class: 0.2 s	29-May- 2019	28-May- 2024
13	ACME Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)	10	SL. No. APZ00316 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00317 Make: Secure Accuracy class: 0.2 s	24-August- 2020	25- August- 2025
14	ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)	10	SL. No. APZ00301 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00302 Make: Secure Accuracy class: 0.2 s	16-March- 2020	15- March- 2025

15	ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI)	10	SL. No. APZ00312 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00313 Make: Secure Accuracy class: 0.2 s	27-July- 2020	26-July- 2025
16	ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)	10	SL. No. APZ00306 Make: Secure Accuracy class: 0.2 s	SL. No. APZ00307 Make: Secure Accuracy class: 0.2 s	16- November- 2019	15- Novembe r-2024

APPENDIX 2: GENERATION RATIO

For ReNew Nizamabad Solar Energy Pvt. Ltd. Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 26/08/2021 to 26/09/2021:	6,843,400	36,500
Generation from 25/09/2021 to 26/09/2021:	367,400	2,300
Generation ratio:	0.053686764	0.0630137
Generation from 26/03/2022 to 26/04/2022:	8,892,805	
Generation from 26/03/2022 to 25/04/2022:	8,580,742	
Generation ratio:	0.964908342	

For ACME PV Powertech Pvt. Ltd. End date of monitoring period doesn't match with billing cycle, therefore end date is apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 24/10/2021:	8,343,369	38,680
Generation from 25/09/2021 to 24/10/2021:	8,096,563	37,380
Generation ratio:	0.97041887	0.9663927
Generation from 24/04/2022 to 24/05/2022:	8,171,063	34,040
Generation from 24/04/2022 to 25/04/2022:	614,594	2,120
Generation ratio:	0.07521589	0.0622795

For ACME Solar Power Technology Private Limited: start date of monitoring period doesn't match with billing cycle, therefore end date is apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 24/10/2021:	8,476,367	37,984
Generation from 25/09/2021 to 24/10/2021:	8,221,206	36,689
Generation ratio:	0.96989746	0.96590152

For Athena Bhiwadi Solar Power Pvt Ltd: Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export
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Generation from 01/09/2021 to 30/09/2021:	8,965
Generation from 25/09/2021 to 30/09/2021:	1,775
Generation ratio:	0.19801682
Generation from 01/04/2022 to 30/04/2022:	10,343
Generation from 01/04/2022 to 25/04/2022:	8,583
Generation ratio:	0.829826203

For Athena Hisar Solar Power Private Limited.: Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export
Generation from 01/09/2021 to 30/09/2021:	8,942
Generation from 25/09/2021 to 30/09/2021:	1,780
Generation ratio:	0.199058832
Generation from 01/04/2022 to 30/04/2022:	10,264
Generation from 01/04/2022 to 25/04/2022:	8,511
Generation ratio:	0.829200123

For Athena Karnal Solar Power Private Limited: Start and end date of monitoring period doesn't match with billing cycle, therefore start date is apportionate using the Daily generation values:

	Export
Generation from 01/09/2021 to 30/09/2021:	9,113
Generation from 25/09/2021 to 30/09/2021:	1,831
Generation ratio:	0.200969134
Generation from 01/04/2022 to 30/04/2022:	10,219
Generation from 01/04/2022 to 25/04/2022:	8,470
Generation ratio:	0.828798765

For ACME Kaithal Solar Power Private Limited: Start and end date of monitoring period doesn't match with billing cycle, therefore start date is apportionate using the Daily generation values.

	Export	Import
Generation from 01/09/2021 to 01/10/2021:	5,845,657	26,882

Generation from 25/09/2021 to 01/10/2021:	1,257,532	6,253
Generation ratio:	0.215122483	0.232602044
Generation from 01/04/2022 to 01/05/2022:	7,089,286	25,561
Generation from 01/04/2022 to 25/04/2022:	5,721,397	20,659
Generation ratio:	0.807048397	0.808228128

For ACME Babadham Solar Power Private Limited : Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 01/09/2021 to 01/10/2021:	6,608,100	17,000
Generation from 25/09/2021 to 01/10/2021:	1,377,000	4,000
Generation ratio:	0.2083806	0.235294
Generation from 01/04/2021 to 01/05/2022:	7,236,280	28,000
Generation from 01/04/2021 to 25/04/2022:	5,794,200	23,000
Generation ratio:	0.8007153	0.821429

For ACME Koppal Solar Energy Private Limited: Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 01/09/2021 to 03/10/2021:	6,555,200	27,850
Generation from 25/09/2021 to 03/10/2021:	1,795,375	7,800
Generation ratio:	0.2738856	0.280072
Generation from 01/04/2022 to 02/05/2022:	7,278,875	25,825
Generation from 01/04/2022 to 25/04/2022:	5,577,225	20,525
Generation ratio:	0.7662207	0.794773

For ACME Vijayapura Solar Energy Pvt Ltd : Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
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Generation from 01/09/2021 to 01/10/2021:	5,332,360	27,670
Generation from 25/09/2021 to 01/10/2021:	948,270	5,900
Generation ratio:	0.1778331	0.213227
Generation from 01/04/2022 to 01/05/2022:	7,189,100	26,810
Generation from 01/04/2022 to 25/04/2022:	5,941,190	22,170
Generation ratio:	0.8264164	0.82693

For ACME Rewa Solar Energy Pvt Ltd: Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 01/09/2021 to 01/10/2021:	18,871,710	55,122
Generation from 25/09/2021 to 01/10/2021:	4,558,710	13,122
Generation ratio:	0.2415632	0.238054
Generation from 01/04/2022 to 01/05/2022:	23,737,800	55,800
Generation from 01/04/2022 to 25/04/2022:	19,149,000	46,200
Generation ratio:	0.8066881	0.827957

For ReNew Karimnagar Solar Power Pvt Ltd : Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

ReNew Karimnagar Solar Power Pvt Ltd	Export	Import
Generation from 24/08/2021 to 27/09/2021:	2,198,539	6,300
Generation from 25/09/2021 to 27/09/2021:	156,162	540
Generation ratio:	0.071029898	0.085714
Generation from 23/04/2022 to 23/05/2022:	2,468,572.412	
Generation from 23/04/2022 to 25/04/2022:	245,314.8114	
Generation ratio:	0.099375173	

For ReNew Neemuch Solar Power Pvt Ltd : Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

ReNew Neemuch Solar Power Pvt Ltd	Export	Import
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Generation from 24/09/2021 to 25/10/2021:	2,581,090	7,750
Generation from 25/09/2021 to 25/10/2021:	2,496,530	7,500
Generation ratio:	0.967238647	0.967742
Generation from 24/04/2022 to 24/05/2022:	2,754,702.838	
Generation from 24/04/2022 to 25/04/2022:	170,440.26	
Generation ratio:	0.061872467	

For ReNew Fazilka Power Pvt Ltd : Start date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 25/10/2021:	2,520,248	6,822
Generation from 25/09/2021 to 25/10/2021:	2,448,057	6,601
Generation ratio:	0.971355542	0.967550148

For ReNew Narwana Solar Power Pvt Ltd : Start date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 23/10/2021:	2,253,650	6,600
Generation from 25/09/2021 to 23/10/2021:	2,178,252	6,350
Generation ratio:	0.96654386	0.96212121

For Devishi Renewable Energy Pvt Ltd: Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 01/09/2021 to 01/10/2021:	1,934,831	5,557
Generation from 25/09/2021 to 01/10/2021:	484,410	1,302
Generation ratio:	0.250362884	0.234307101
Generation from 01/04/2022 to 01/05/2022:	2,266,209	4,909
Generation from 01/04/2022 to 25/04/2022:	1,850,785	4,022
Generation ratio:	0.816687656	0.819266125

For Devishi Solar Power Pvt Ltd: Start date and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 01/09/2021 to 01/10/2021:	1,966,655	6,506
Generation from 25/09/2021 to 01/10/2021:	489,268	1,510
Generation ratio:	0.24878194	0.232014755
Generation from 01/04/2022 to 01/05/2022:	2,275,338	5,629
Generation from 01/04/2022 to 25/04/2022:	1,861,410	4,626
Generation ratio:	0.81808059	0.821848754

For Sunworld Energy Pvt Ltd: Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 01/09/2021 to 30/09/2021:	1,672,431	6,606
Generation from 25/09/2021 to 30/09/2021:	370,031	1,311
Generation ratio:	0.22125343	0.198447688
Generation from 01/04/2022 to 30/04/2022:	1,840,268	7,343
Generation from 01/04/2022 to 25/04/2022:	1,531,237	6,159
Generation ratio:	0.832072573	0.83881533

For ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI): Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 24/10/2021:	1,760,000	4,750
Generation from 25/09/2021 to 24/10/2021:	1,717,500	4,550
Generation ratio:	0.97585227	0.957894737
Generation from 24/04/2022 to 24/05/2022:	1,803,900	4,650
Generation from 24/04/2022 to 25/04/2022:	132,440	300
Generation ratio:	0.0734187	0.064516129

For ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI): Start and end date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 23/09/2021 to 23/10/2021:	1,722,904	6,200
Generation from 25/09/2021 to 23/10/2021:	1,615,432	5,800
Generation ratio:	0.937621597	0.935483871
Generation from 23/04/2022 to 23/05/2022:	1,890,409	4,909
Generation from 23/04/2022 to 25/04/2022:	19,3017	487
Generation ratio:	0.10210328	0.099112375

For ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR): Start date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 25/10/2021:	1,738,940	6,500
Generation from 25/09/2021 to 25/10/2021:	1,682,390	6,300
Generation ratio:	0.967480189	0.969230769

For ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI): Start date of monitoring period doesn't match with billing cycle, therefore start and end date are apportionate using the Daily generation values:

	Export	Import
Generation from 24/09/2021 to 23/10/2021:	1,681,000	4,500
Generation from 25/09/2021 to 23/10/2021:	1,626,944	4,350
Generation ratio:	0.967842951	0.966666667
Generation from 24/04/2022 to 24/05/2022:	1,926,200	3,850
Generation from 24/04/2022 to 25/04/2022:	139,500	250
Generation ratio:	0.072422386	0.064935065

APPENDIX 3: TRAINING RECORDS

Activity Instance	SPVs Name	No. of trainings
1	Sunworld Solar Power Pvt Ltd	5
	ReNew Ranga Reddy Solar Power Pvt Ltd	5
	ReNew Medak Solar Energy Pvt Ltd	2
	ReNew Nizamabad Solar Energy Pvt Ltd	11
	ACME PV Powertech Private Limited (Sadashivpet)	10
	ACME Solar Power Technology Private Limited	5
	Athena Bhiwadi Solar Power Pvt Ltd	13
	Athena Hisar Solar Power Private Limited	13
	Athena Karnal Solar Power Private Limited	13
	ACME Kaithal Solar Power Private Limited	24
	ACME Babadham Solar Power Private Limited	2
	ACME Koppal Solar Energy Private Limited	2
	ACME Vijayapura Solar Energy Pvt Ltd	4
	ACME Rewa solar energy private limited	2
	Ayana Chittorgarh Solar Energy Pvt. Ltd	36
2	ReNew Karimnagar Solar Power Pvt Ltd	4
3	ReNew Purvanchal Solar Power Pvt Ltd	1
4	ReNew Rewanchal Solar Power Pvt Ltd	4
5	ReNew Neemuch Solar Power Pvt Ltd	5
6	ReNew Fazilka Power Pvt Ltd (Nandipet)	4
7	ReNew Narwana Solar Power Pvt Ltd (Lingampet)	4
8	ReNew Warangal Solar Power Pvt Ltd	5
9	Devishi Renewable Energy Pvt Ltd	24
10	Devishi Solar Power Pvt Ltd	16
11	Sunworld Energy Pvt Ltd	2
12	ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	4
13	ACME Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)	10
14	ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)	13
15	ACME Mahbubnagar Solar Energy Pvt Ltd-3 (PADMAJIWADI)	12
16	ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)	3
Total		282

APPENDIX 4: TECHNICAL SPECIFICATIONS

Name of the SPVs	Specifications	Old technical detail	New technical detail
ReNew Karimnagar Solar Power Pvt Ltd	Solar photovoltaic module	255,260 Wp & 265 Wp	255, 260, 265 Wp 19248, 21000, 33912
	No. of modules	74088	74160
ReNew Purvanchal Solar Power Pvt Ltd	Solar photovoltaic module	255,260 Wp & 265 Wp	255, 260, 265 13920, 31008, 30600
	No. of modules	75600	75528
ReNew Rewanchal Solar Power Pvt Ltd	Solar photovoltaic module	260 Wp & 265 Wp	260, 265, 260, 265 31320, 32376
	No. of modules	62208	63696
ReNew Neemuch Solar Power Pvt Ltd	Solar photovoltaic module	260 Wp & 265 Wp	260, 265 25896, 48048
	No. of modules	73824	73944
ReNew Fazilka Power Pvt Ltd	Solar photovoltaic module	255,260 Wp & 265	255, 260, 265 13464, 57912, 3288
	No. of modules	74640	74832
Sun World Solar Power Pvt. Ltd	Solar photovoltaic module	260 Wp & 265 Wp	260, 265, 260, 265, 265
	No. of modules	133008	148056
ReNew Ranga Reddy Solar Power Pvt Ltd	Solar photovoltaic module	260 Wp & 265 Wp	260, 265 31392, 109704
	No. of modules	141504	141096
ReNew Medak Solar Energy Pvt Ltd	Solar photovoltaic module	260,265 Wp & 270 Wp	260, 265, 265, 270, 260
	No. of modules	220176	220200
ReNew Narwana Solar Power Pvt Ltd	Solar photovoltaic module	255 Wp & 260 Wp	255, 260
	No. of modules	74544	74520
ReNew Nizamabad Solar Energy Pvt Ltd	Solar photovoltaic module	260,265 Wp & 270 Wp	260, 265, 265, 270, 255
	No. of modules	243816	243432
ACME PV Powertech Private Limited	Solar photovoltaic module	265,270 Wp & 275 Wp	270, 265, 260, 275 Watts
	No. of modules	234936	242616
Devishi Renewable Energy Pvt Ltd	Solar photovoltaic module	255Wp & 260 Wp	255, 260, 275
	No. of modules	60144	62304
Devishi Solar Power Pvt Ltd	Solar photovoltaic module	255Wp & 260 Wp	255, 260, 275, 270
	No. of modules	60144	62136
Sunworld Energy Pvt Ltd	Solar photovoltaic module	260Wp & 265 Wp	260, 265 Watts
	No. of modules	58512	58872
ACME Solar Power Technology Private Ltd	Solar photovoltaic module	265 Wp & 270 Wp	265, 270, 260

	No. of modules	216095 Installation WIP	245160
ACME Yamunanagar Solar Power Pvt Ltd-1 (KOSGI)	Solar photovoltaic module	Trina Solar (320Wp, 325Wp, 330Wp)	320, 325, 330 Watts
	No. of modules	41880	41860
ACME Yamunanagar Solar Power Pvt Ltd-2 (MOTHKUR)	Total Number of Invertors	04 Nos. (2500 kW*4)	08 Nos. 1250 kW*8)
ACME Mahbubnagar Solar Energy Pvt Ltd-2 (GODHUR)	No. of modules	39500	52368
	Total Number of Invertors	52368 No's	08
ACME Mahbubnagar Solar Energy Pvt Ltd-1 (MANTHANI)	Solar photovoltaic module	250W,260W and 265MW	265, 260 Watts
	No. of modules	51960	52368
	Transformer numbers	2 Nos.	8 Nos.
ACME Bhiwadi Solar Power Pvt Ltd	Solar photovoltaic module	315 Wp, 320 Wp, 325 Wp	315, 320,325,330,335 Watts
	No. of modules	207600	223300
ACME Kaithal Solar Power Private Limited	No. of modules	16731632	168440
ACME Karnal Solar Power Private Limited	Solar photovoltaic module	320 Wp, 325 Wp, 330 Wp	315 , 320,325,330,335 Watts
	No. of modules	206360	226440
ACME Koppal Solar Energy Private Limited	Solar photovoltaic module	315Wp,320Wp, 325Wp	320, 325
	No. of modules	168240	168700
ACME Rewa Solar Energy Pvt Ltd	Solar photovoltaic module	320 Wp, 325 Wp, 330 Wp	315, 320, 325,330 Watts
	No. of modules	400000	464760
ACME Chittorgarh Solar Energy Pvt. Ltd	Solar photovoltaic module	(320 Wp, 325 Wp, 330 Wp)	315, 320, 325,330 Watts
	No. of modules	400000	462210