

TEMPLATE

MONITORING REPORT

PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

RELATED SUPPORT - **TEMPLATE GUIDE Monitoring Report v. 1.1**

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KEY PROJECT INFORMATION

Key Project Information

GS ID (s) of Project (s)	GS7525
Title of the project (s) covered by monitoring report	BIM Solar Farm
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	11
Version number of the monitoring report	03
Completion date of the monitoring report	20/05/2026
Date of project design certification	02/03/2020
Date of Last Annual Report	14/01/2025
Monitoring period number	03
Duration of this monitoring period	01/06/2024 – 28/02/2026 (both dates inclusive)
Project Representative	BIM Renewable Energy Joint Stock Company (BIMRE) – Vietnam BIM Energy Joint stock Company (BIME) – Vietnam
Host Country	Vietnam
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Methodology (ies) applied and version number	ACM0002: Grid-connected electricity generation from renewable sources (Version 21.0)
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A

Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units/ Products
SDG 7	Affordable and clean energy	1,021,489	MWh
SDG 8	Decent work and economic growth	63 jobs 21 trainings	Number Number
SDG 13	Climate action	822,272	tCO ₂

Table 2 – Product Vintages

		Amount Achieved
Start Dates	End Dates	SDG 13 (tCO ₂)
01/06/2024	31/12/2024	264,557
01/01/2025	31/12/2025	473,181
01/01/2026	28/02/2026	84,534

SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

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BIM Group (Vietnam) is implemented “BIM Solar Farm” (hereafter referred as “Proposed project” or “Project activity”) with a total installed capacity of 405 MW, which comprises of three solar plants as follows:

Plant Name	Location	Capacity (MW)
18N +18NX	Phuoc Ninh Commune	250 + 75
18S	Highway 1A, Lac Tien Hamlet, Phuoc Minh Commune	50
18E	Highway 1A, Quan The Hamlet, Phuoc Minh Commune	30
Total		405

All the above plants are located at Thuan Nam District, Ninh Thuan Province, Vietnam. The legal owner of 18N+NX & 18S is BIM Renewable Energy Joint Stock Company (BIMRE) and the 18E is BIM Energy Joint stock Company (BIME). Both BIMRE and BIME are the brands belonging to BIM Group (Vietnam).

The primary goal of the project activity is to generate green & clean electricity through solar energy. The project activity started to operate in May 2019 with the total installed capacity of 330MW as follows:

Plant Name	Date of COD	Source of Document
18N (250 MW)	11/05/2019	Agreement on Operation date (14/05/2019)
18S (50 MW)	07/05/2019	Agreement on Operation date (14/05/2019)
18E (30 MW)	23/04/2019	Agreement on Operation date (04/05/2019)

An additional 75 MW (also called 18NX) as an expansion of existing facility was started to operate on 24/12/2020 onwards as per the agreement signed on 28/12/2020.

The electricity generated by the project activity is supplied to the national grid. The project activity replaces anthropogenic emissions of Greenhouse Gases (GHGs) by displacing equivalent amount of electricity from fossil fuel-based power plants connected to the Vietnam’s national grid.

During this monitoring period (from 01/06/2024 to 28/02/2026), the emission reduction achieved by the project activity is 822,272 tCO₂.

Vietnam is a Non-Annex I country and thereby no emission reduction cap enforced as well as no emission trading system implemented as per the Decree 06/2022/ND-CP¹, Article 17, clause 1c. Also, Article 20, clause 5 states:

The subjects specified in Clause 1 of this Article implementing programs and projects under the carbon credit exchange and offset mechanism outside the framework of the UNFCCC, international treaties and agreements to which the Socialist Republic of Vietnam is a member in the territory of Vietnam shall be responsible for:

- When registering a program or project, registration information must be sent to the Ministry of Natural Resources and Environment (MoNRE) according to Form No. 04, Appendix V issued with this Decree;
- During the implementation of the program, the project must periodically provide information on the implementation status to the MoNRE every year before December 31 according to Form No. 05, Appendix V issued with this Decree.

Moreover, the project activity is constructed, operated, and owned by a private entity without any ODA fund. Therefore, the project owner has full legal rights to own any GS-VERs generated from the project activity. The above confirms that there is no double counting with national climate policies, and the GHG emission reductions from the project activity are not accounted for within the relevant system of the host country/ regional or voluntary mechanism.

A.2. Location of project

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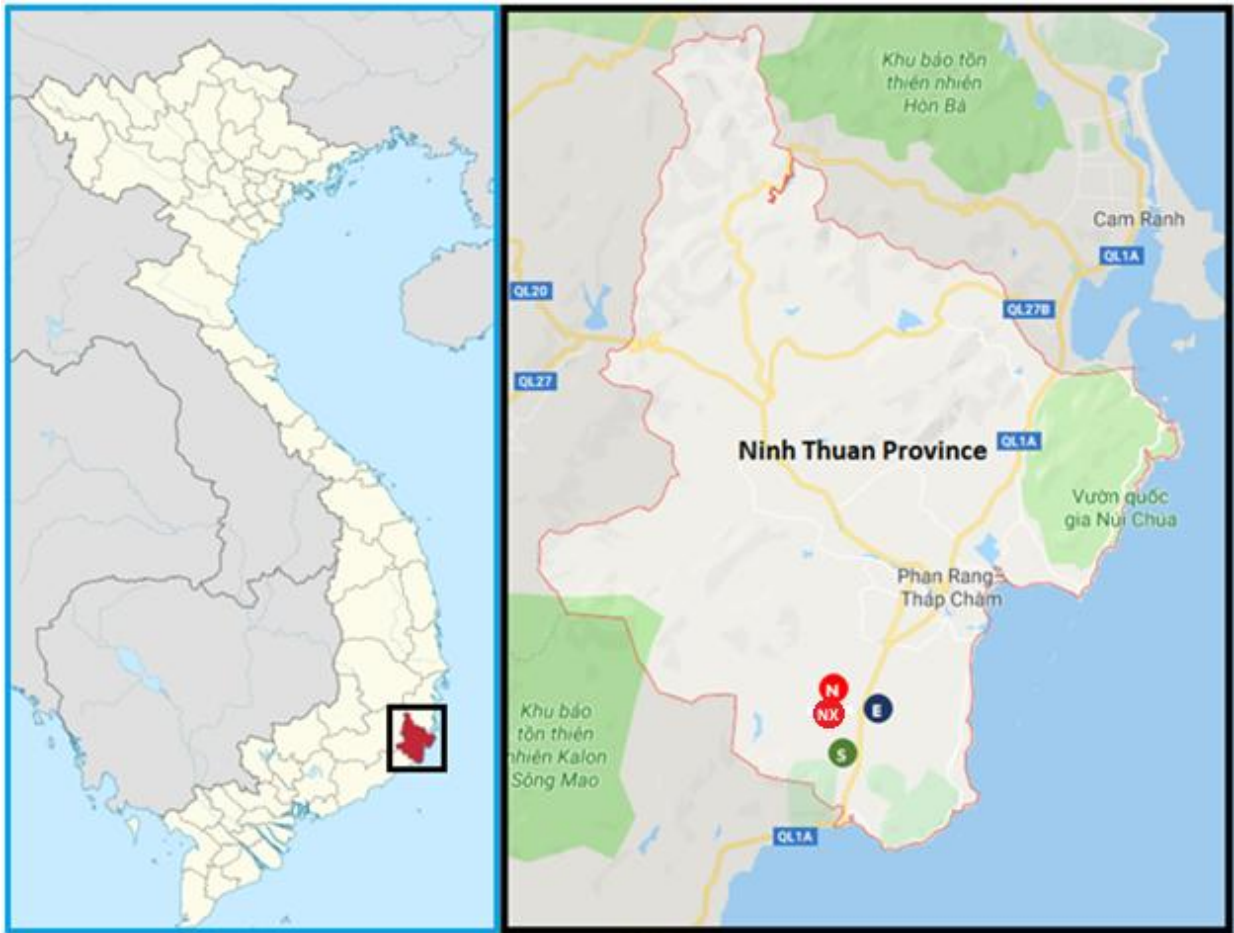
Host Country: Vietnam

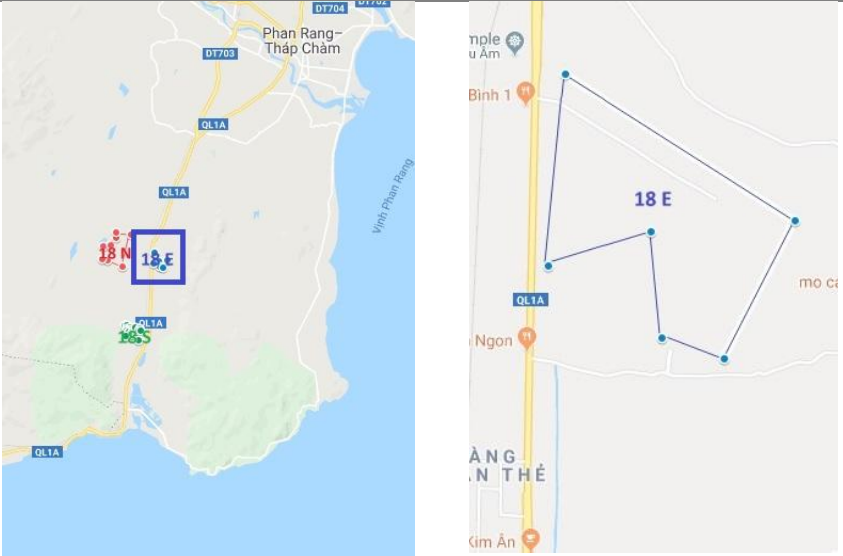
Province: Ninh Thuan

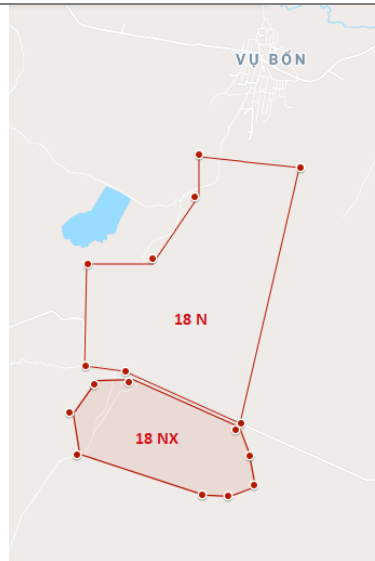
District: Thuan nam

Communes: Phuoc Ninh & Phuoc Minh

¹ <https://thuvienphapluat.vn/van-ban/tai-nguyen-moi-truong/Nghi-dinh-06-2022-ND-CP-giam-nhe-phat-thai-khi-nha-kinh-va-bao-ve-tang-o-don-500104.aspx>



Corner GPS Coordinates	Aerial locations and layouts	
18E E1 – 11.44853, 108.89506 E2 – 11.44347, 108.90312 E3 – 11.43871, 108.90066 E4 – 11.43945, 108.89845 E5 – 11.44422, 108.89818 E6 – 11.44192, 108.89445		

Corner GPS Coordinates	Aerial locations and layouts	
18N N1 – 11.43961, 108.87468 N2 – 11.44349, 108.86501 N3 – 11.44432, 108.86175 N4 – 11.4526, 108.8618 N5 – 11.45295, 108.86721 N6 – 11.45785, 108.87063 N7 – 11.46102, 108.87072 N8 – 11.45997, 108.87973 18NX NX1 – 11.44297, 108.86535 NX2 – 11.4428, 108.8626 NX3 – 11.44061, 108.86063 NX4 – 11.43733, 108.86123 NX5 – 11.43422, 108.87118 NX6 – 11.43413, 108.87324 NX7 – 11.43497, 108.875 NX8 – 11.43724, 108.87496 NX9 – 11.43926, 108.87384		
18S S1 – 11.40232, 108.87579 S2 – 11.40244, 108.8775 S3 – 11.40046, 108.87753 S4 – 11.40105, 108.87928 S5 – 11.40046, 108.87753 S6 – 11.40105, 108.87928 S7 – 11.40008, 108.87936 S8 – 11.39916, 108.87739 S9 – 11.39797, 108.87775 S10 – 11.39864, 108.87886 S11 – 11.39814, 108.88152 S12 – 11.39673, 108.88139 S13 – 11.39667, 108.88311 S14 – 11.40119, 108.88264 S15 – 11.40059, 108.8853 S16 – 11.39942, 108.88504 S17 – 11.39915, 108.88617 S18 – 11.3929, 108.88511		

A.3. Reference of applied methodology

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The selected approved methodology as follows:

Scope No : 1

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

Title : ACM0002: Grid-connected electricity generation from renewable sources

Version : 21.0
Validity : 02/11/2022 to 30/05/2024

Tools referenced in this methodology:

- Tool to calculate the emission factor for an electricity system (Version 7.0)
- Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (version 3.0.1)

A.4. Crediting period of project

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Renewable crediting period. Renew every 5 years for 15 years as follows:

CP-01: 02/06/2019 – 31/05/2024

CP-02: 01/06/2024 – 31/05/2029

CP-03: 01/06/2029 – 31/05/2034

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

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The technology being employed is a conversion of solar energy into electrical energy. The project activity is the installation of an environment friendly green technology since there are no GHG emissions associated with the electricity generation. Since this is a greenfield project there was no electricity generation at the project site prior to its implementation. The technical specifications² of equipment as follows:

General Information			
Plant Name	18E	18N + 18NX	18S
Total Capacity	30MW	250 + 75 MW	50MW
Number of Inverters	8	58+18	12
Total Number of Modules	90,990	761,580 + 187,544	153,900

² Suppliers' specifications / data sheet

Technical Specifications of PV Modules							
Model	TSM-325PE14A (18N)	TSM-330PE14A (18N)	JKM325PP-72-V (18N)	JKM330PP-72-V (18N)	JAP72S01-325/SC (18S)	JAP72S01-330/SC (18E)	JKM400M-72H-V (18NX)
Type	Multi-crystalline	Multi-crystalline	Poly-crystalline	Poly-crystalline	Poly-crystalline	Poly-crystalline	Mono-crystalline
Max Power (Pmax)	325	330	325	330	325	330	400
Efficiency (%)	16.7	17	16.75	17.01	16.7	17.0	19.88

Technical Specifications of Inverters	
Model	SG3125HV
Max. PV Input Voltage	1500V
Max Efficiency / Euro. Efficiency	99.0% / 98.7%
Operating Ambient Temperature range	-35 ^o to 60 ^o C
Cooling Method	Temperature controlled forced air cooling

The average lifetime of the project is 25 years as per the equipment supplier's specifications.

Plant Name	Date of COD	Source of Document
18N (250 MW)	11/05/2019	Agreement on Operation date (14/05/2019)
18S (50 MW)	07/05/2019	Agreement on Operation date (14/05/2019)
18E (30 MW)	23/04/2019	Agreement on Operation date (04/05/2019)

An additional 75 MW (also called 18NX) as an expansion of existing facility was started to operate on 24/12/2020 onwards as per the agreement signed on 28/12/2020.

The project activity is registered/design certified under Gold Standard on 02/03/2020 and the design change was completed on 06/09/2021.

Several incidents (listed in Annex 1) occurred during this monitoring period that partially disrupted the operation of the plant. However, no event could impact on the applicability of GS requirements.

In this report, the fourth monitoring report covers 01/06/2024 to 28/02/2026.

B.1.1 Forward Action Requests

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The following FAR raised by VVB during the renewal of Crediting Period (CP):

During future verification, VVB is requested to re assess project's additionality in case electricity generation/tariff is higher than estimation. It's noticed from sensitivity analysis that benchmark will be reached with electricity generation or tariff increase by 4.8%

Response to the FAR:

Star Date	End Date	Ex-Ante Estimation (MWh)	Actual Generation (MWh)	Variance (%)
01/06/2024	31/12/2024	391,530	328,653	-16.1%
01/01/2025	31/12/2025	671,195	587,821	-12.4%
01/01/2026	28/02/2026	111,866	105,015	-6.1%
Total		1,174,591	1,021,489	-13.0%

Based on the above table, the actual electricity generation did not exceed the estimated power generation by more than 4.8%. In addition, the tariff is fixed for 20 years under the Power Purchase Agreement (PPA); therefore, there has been no increase in the tariff.

B.2. Post-Design Certification changes

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B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

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Not Applicable

B.2.2. Corrections

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Not Applicable

B.2.3. Changes to start date of crediting period

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Not Applicable

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

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Not Applicable

B.2.5. Changes to project design of approved project

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Not Applicable

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

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Monitoring data is collected in accordance with the agreement done between the project owner and Vietnam Electricity Corporation (EVN) which provides the infrastructure for the connection to the national grid. Data will be stored electronically, during the crediting period and at least two years after the last issuance of credits for the solar power project activity in the concerning crediting period. The Project Participant will be responsible for storage of data received from the measuring devices.

Monitoring procedures

All the installed electricity meters (refer Annex 2 for metering layout) have an internal memory that can be stored 18 months of monitored data. The electricity meters will obtain hourly data and send to the historical server located at HV substation control room on a daily basis. The data can be downloaded from the computer at control room through web-based dashboard installed by EVN. The data will be monitored by the assigned operator at control room during 5am to 6pm and the EVN who can see the data remotely from their location. There will be no data after sunset and the inverter turn in to standby mode. The operator will collate and compile all operational data on a monthly basis and send to plant operation manager. The operation manager will verify the data and send to top management for endorsement before proceeding to billing to power purchaser. In case of meter failure or data gaps, the plant follows its internal O&M and data management procedures. The issue is recorded, the meter/SCADA fault is checked and rectified by the responsible technical team, and the affected period is identified. Where any data gap occurs, generation data are cross-

checked and reconstructed using available supporting records such as SCADA logs, backup meter data, utility/grid records, and meter reading reports. Any estimated or substituted data, if required, will be clearly documented with justification and supporting evidence for verification.

Period of archiving

The data will be archived electronically every hour in meters and the meters will send the data to historical server on a daily basis. Monthly data can be downloaded for billing purposes.

Data Management

The plant uses a SCADA system for automatic monitoring, recording and storage of operational data. The SCADA system captures relevant plant parameters, including electricity generation data, and stores them in the plant server/database. The data are backed up periodically to prevent loss of records. Access to the SCADA system is restricted to authorized personnel through user login credentials and defined access rights. Historical data for the monitoring period can be retrieved from the SCADA database and exported as reports when required for monitoring, verification and audit purposes. The retrieved data are cross-checked with meter readings and other supporting generation records, where applicable, to ensure consistency and traceability.

Calibration of equipment

The calibration of electricity meters will be done as per supplier recommendation by an independent accredited third party. However, the main tariff meters are validated by EVN as per their requirement once in a year. All other meters are verified once in three years interval³. The relevant calibration certificates are available for GS-VVB review.

The meters' specifications are as follows:

³ Item 43 in the Table under Article 4 of the circular 07_2019_TT-BKHCN (<https://thuvienphapluat.vn/van-ban/Bo-may-hanh-chinh/Thong-tu-07-2019-TT-BKHCN-sua-doi-Thong-tu-23-2013-TT-BKHCN-424852.aspx>)

Plant Name	Brand	Model	Accuracy Class	Number of Meters
18N, 18NX & 18S	Elster	A1700	Tariff Meter: 0.2	15 (18N), 10 (18NX) & 9 (18S)
18E	Landis+Gyr	E650 Series 3	Others: 0.5	7 (18E)

The calibration certificates of the meters are provided to GS-VVB during the verification. The dates of calibrations are as follows:

Plant Name	Meter Number	Serial Number	Calibration Dates		
			2024 ⁴	2025	2026
18E	131 Main	38152538	25/03/2024 (Valid until: 31/03/2027)	28/02/2025 (Valid until: 27/02/2028)	27/02/2026 (Valid until: 27/02/2029)
	131 Backup	40377372			
18N & 18NX	275 Main	22019513	26/03/2024 (Valid until: 28/02/2027)	28/02/2025 (Valid until: 27/02/2027)	27/02/2026 (Valid until: 27/02/2029)
	275 Backup	18080164			
18S	272 Main	18066336	26/03/2024 (Valid until: 28/02/2027)	28/02/2025 (Valid until: 27/02/2027)	27/02/2026 (Valid until: 27/02/2029)
	272 Backup	17051038			

QC/QA

The monitored data will be provided to GS consultant on a yearly basis for the calculation and estimation of emission reductions to prepare the annual report. This data will be checked against the billing to EVN.

⁴ Since the calibration of meters are not carried within a year, the error in generation and consumption for March 2024 is calculated separately in the ER spreadsheet.

SECTION D. DATA AND PARAMETERS

D.1. Data and parameters fixed ex ante or at renewal of crediting period

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Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	EF _{grid,OM,y}
Unit	tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor for the electricity system in year y
Source of data	Department of Climate Change, Vietnam
Value(s) applied	0.9334
Choice of data or Measurement methods and procedures	Calculated as per "Tool to calculate the emission factor for an electricity system, version 07" by using the latest data available for the past three recent years 2020, 2021 and 2022. The Ministry of Natural Resource and Environment (MONRE) has obtained the historical data from "National electricity system regulation centre" and calculated the emission factor.
Purpose of data	For the calculation of the Baseline Emission
Additional comment	–

Relevant SDG Indicator	SDG 13: Climate Action
Data/parameter	EF _{grid,BM,y}
Unit	tCO ₂ /MWh
Description	Build Margin CO ₂ emission factor for the electricity system in year y
Source of data	Department of Climate Change, Vietnam
Value(s) applied	0.4197
Choice of data or Measurement methods and procedures	Calculated as per "Tool to calculate the emission factor for an electricity system, version 07" by using the latest data available for the past three recent years 2020, 2021 and 2022. The Ministry of Natural Resource and Environment (MONRE) has obtained the historical data from "National electricity system regulation centre" and calculated the emission factor.
Purpose of data	For the calculation of the Baseline Emission
Additional comment	–

Relevant SDG Indicator	SDG 13: Climate Action
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Data/parameter	$EF_{grid,CM,y}$
Unit	tCO ₂ /MWh
Description	Combined Margin CO ₂ emission factor for the electricity system in year y
Source of data	Department of Climate Change, Vietnam
Value(s) applied	0.8050
Choice of data or Measurement methods and procedures	The combined margin emissions factor is calculated as per Tool 7, paragraph 86 a), where the different weightage applied for OM & BM emission factors for the solar power generation project activities: $EF_{grid,CM,y} = (EF_{grid,OM,y} \times W_{OM}) + (EF_{grid,BM,y} \times W_{BM})$ 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) WOM = Weighting of operating margin emissions factor (%) = 75% WBM = Weighting of build margin emissions factor (%) = 25%
Purpose of data	For the calculation of the Baseline Emission
Additional comment	–

D.2 Data and parameters monitored

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Relevant SDG Indicator	7.2.1 – Renewable energy share in the total final energy consumption																						
Data / Parameter	Gross Power Generation																						
Unit	MWh/yr																						
Description	Quantity of net electricity generated and supplied by the project power plant to the grid in year y																						
Source of data	Standard metering of the net electricity supplied to the grid as indicated in the Power Purchase Agreement (PPA)																						
Value(s) applied	<table><tr><th rowspan="2">Monitoring Period</th><th colspan="3">Generation in MWh</th></tr><tr><th>18E</th><th>18N+NX</th><th>18S</th></tr><tr><td>01/06/2024 – 31/12/2024</td><td>25.860</td><td>262,072</td><td>41,931</td></tr><tr><td>01/01/2025 – 31/12/2025</td><td>46,408</td><td>467,140</td><td>76,293</td></tr><tr><td>01/01/2026 – 28/02/2026</td><td>8,569</td><td>76,293</td><td>13,628</td></tr></table>				Monitoring Period	Generation in MWh			18E	18N+NX	18S	01/06/2024 – 31/12/2024	25.860	262,072	41,931	01/01/2025 – 31/12/2025	46,408	467,140	76,293	01/01/2026 – 28/02/2026	8,569	76,293	13,628
Monitoring Period	Generation in MWh																						
	18E	18N+NX	18S																				
01/06/2024 – 31/12/2024	25.860	262,072	41,931																				
01/01/2025 – 31/12/2025	46,408	467,140	76,293																				
01/01/2026 – 28/02/2026	8,569	76,293	13,628																				

	Total	1,025,065
Measurement methods and procedures	Electricity generated is monitored by the electricity meters on a continuous basis and readings will be taken every month for billing purpose. The meters have the capability to store 18 months of data as well as transfer them to historical server which is located in the HV substation control room. It can be downloaded on a monthly basis for billing purpose. The computer has a web-based software where the data can be seen by the Vietnam Electricity (EVN) remotely. Archive of the data would be available for entire lifetime of the project.	
Monitoring frequency	Continuous measurement with daily recording (The meters can capture half hourly generation data and the data would be logged through the SCADA system in a daily basis. However, readings will be downloaded on a monthly basis for record keeping and billing to the EVN.)	
QA/QC procedures	Electricity meters are calibrated once in three years as per EVN requirement. The electricity meters and calibration details are provided in Section C. The electricity generation can also be cross-checked using the invoices billed to EVNEPTC for payment	
Purpose of data	Calculation of baseline emissions to demonstrate contribution to SDG7'-7.2 By 2030, increase substantially the share of renewable energy in the global energy mix"	
Additional comment	None	

Relevant SDG Indicator	7.2.1 – Renewable energy share in the total final energy consumption																					
Data / Parameter	Auxiliary Power Consumption																					
Unit	MWh/yr																					
Description	Quantity of electricity consumed by the project electricity consumption source j in year y																					
Source of data	Direct measurement by electricity meters																					
Value(s) applied	<table border="1"> <thead> <tr> <th rowspan="2">Monitoring Period</th><th colspan="3">Consumption in MWh</th></tr> <tr> <th>18E</th><th>18N+NX</th><th>18S</th></tr> </thead> <tbody> <tr> <td>01/06/2024 – 31/12/2024</td><td>130</td><td colspan="2">1,079</td></tr> <tr> <td>01/01/2025 – 31/12/2025</td><td>215</td><td colspan="2">1,805</td></tr> <tr> <td>01/01/2026 – 28/02/2026</td><td>39</td><td colspan="2">306</td></tr> </tbody> </table>			Monitoring Period	Consumption in MWh			18E	18N+NX	18S	01/06/2024 – 31/12/2024	130	1,079		01/01/2025 – 31/12/2025	215	1,805		01/01/2026 – 28/02/2026	39	306	
Monitoring Period	Consumption in MWh																					
	18E	18N+NX	18S																			
01/06/2024 – 31/12/2024	130	1,079																				
01/01/2025 – 31/12/2025	215	1,805																				
01/01/2026 – 28/02/2026	39	306																				

	Total	3,574
Measurement methods and procedures	Electricity consumption by the project plant is monitored by the electricity meters on a continuous basis and readings have been taken every month for billing purpose. The main meter is acting like a two-way (bi-directional) meter and therefore capture electricity consumption as well as transfer them to server which is located in the HV substation control room. It can be downloaded on a monthly basis for billing purpose. Archive of the data would be available for entire lifetime of the project.	
Monitoring frequency	The meters can capture half hourly data and the data would be logged through the SCADA system in a daily basis. However, readings will be taken on a monthly basis for record keeping and billing to the EVN.	
QA/QC procedures	Continuous measurement with daily recording (The meters can capture half hourly generation data and the data would be logged through the SCADA system in a daily basis. However, readings will be downloaded on a monthly basis for record keeping and billing to the EVN.)	
Purpose of data	Calculation of project emissions to demonstrate contribution to SDG7'-7.2 By 2030, increase substantially the share of renewable energy in the global energy mix"	
Additional comment	None	
Relevant SDG Indicator	8.5.1 – Average hourly earnings of female and male employees, by occupation, age and persons with disabilities	
Data / Parameter	Employees' monthly wages	
Unit	Vietnam Dong per employee	
Description	Monthly wages to all employees by the project activity	
Source of data	Job contracts (or) Pay slip (or) Payroll records	
Value(s) applied	Detailed spreadsheet provided to GS-VVB contains hourly wages based on the employees': 1. Age 2. Position 3. Gender	
Measurement methods and procedures	Randomly choose employees with similar designation from payroll records and compare their wages and experience	

Monitoring frequency	Once for each monitoring period
QA/QC procedures	Payroll records, job contracts and staff register are provided annually. After first verification, only changes in employees are reported.
Purpose of data	To demonstrate contribution to SDG8 – 8.5 “By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value’
Additional comment	None

Relevant SDG Indicator	8.8.1 – Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status
Data / Parameter	No of Fatal & Non-fatal injuries
Unit	Number
Description	Total number of employees injured during the operation and maintenance period of project activity
Source of data	Health & Safety issues records
Value(s) applied	0
Measurement methods and procedures	The total number of Health and Safety training based on Training Records or Certificates
Monitoring frequency	Once for each monitoring period
QA/QC procedures	Accident or incident records are provided.
Purpose of data	Monitoring the health and safety records of employees to demonstrate contribution to SDG8 – 8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment
Additional comment	None

Relevant SDG Indicator	13.3.2 – Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions
Data / Parameter	No of awareness programmes
Unit	Number
Description	Provide awareness trainings regarding the climate change and mitigation measures

Source of data	Training records include attendance register or photos of training											
Value(s) applied	<table><tr><th>Year</th><th>No of Trainings</th><th>No of Attendees</th></tr><tr><td>2024</td><td>9</td><td>87</td></tr><tr><td>2025</td><td>12</td><td>192</td></tr></table>			Year	No of Trainings	No of Attendees	2024	9	87	2025	12	192
Year	No of Trainings	No of Attendees										
2024	9	87										
2025	12	192										
Measurement methods and procedures	The training records include attendance registers and photos are available to measure the level of awareness program conducted for local communities and others											
Monitoring frequency	Once for each monitoring period											
QA/QC procedures	None											
Purpose of data	Monitoring the awareness programs conducted will help to demonstrate the contribution to SDG13 – 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning											
Additional comment	None											

D.3. Comparison of monitored parameters with last monitoring period

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
Not Applicable		

D.4. Implementation of sampling plan

>>

Not Applicable

SECTION E. CALCULATION OF SDG IMPACTS

E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

>>

SDG 7 – Affordable & Clean Energy

The baseline outcome is zero.

SDG 8 – Decent work & Economic Growth

The baseline outcome is zero.

SDG 13 – Climate Action

AS per ACM0002 (Version 21.0), the baseline emissions are to be calculated as follows:

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

Where:

BE_y = Baseline emissions in year y (tCO₂/yr)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of "TOOL07: Tool to calculate the emission factor for an electricity system" (tCO₂/MWh)

Based on the monitored data, the computation of Baseline emission as follows:

Symbol	Unit	01/06/2024 – 31/12/2024	01/01/2025 – 31/12/2025	01/01/2026 – 28/02/2026
$EG_{PJ,grid,y}$	MWh	328,653	587,821	105,015
$EF_{grid,CM,y}$	tCO ₂ /MWh		0.8050	
BE_y	tCO ₂	264,557	473,181	84,534
Total			822,272	

E.2. Calculation of project value or estimation of project situation of each SDG Impact

>>

SDG 7 – Affordable & Clean Energy

The project activity has the capacity to produce 671,195 MWh per annum. The total affordable and clean energy generated by project activity is 1,021,489 MWh during this monitoring period. The breakdown of energy generation as follows:

Monitoring Period	Net Power Generation (MWh)			Total
	18E	18N+NX	18S	
01/06/2024 – 31/12/2024	25,730	260,993	41,931	328,653
01/01/2025 – 31/12/2025	46,193	465,335	76,293	587,821
01/01/2026 – 28/02/2026	8,530	82,858	13,628	105,015
Total	80,453	809,187	131,852	1,021,489

SDG 8 – Decent work & Economic Growth

The project activity provided employment opportunities which would not have been possible in the baseline scenario. The project currently provides employment of 63 local people at present. The type of jobs created for local community includes engineer, supervisor, technician, cleaner and driver. The local community recruited in the basis of educational qualifications and prior experience in the same field. Those with education qualification with no experience was sent through skill development training before commencement of work. In addition, providing regular training (minimum 1 training per annum) to the employees for improving their skills. The list of employees and training records will be shown to GS-VVB.

Summary of SDG 8 impact are as follows:

Year	Training Title	No of Trainings	No of staffs attended
2024	OHS Training – Group 1	1	2
2024	OHS Training – Group 2	1	1
2024	OHS Training – Group 3	2	49
2024	OHS Training – Group 4	1	5
2024	OHS Training – Group 5	1	1
27 Mar 2024	Crane Operation Training	1	2
21 May 2024	Firefighting and Rescue Drill	1	15
08 Nov 2024	Fire Prevention and Rescue Skills Training	1	12
Mar 2025	OSH and Chemical Spill Response Training	1	8
Apr 2025	Internal OSH Training and Workplace Safety Regulations	1	13
Apr 2025	Crane Operation Training and Certification	1	1
May 2025	Fire Prevention and Rescue Compliance and Annual Drill	1	14
May 2025	Heatstroke Prevention and First Aid Training	1	48
Jun 2025	First Aid Training	1	35
Aug 2025	Electrical Safety Training	1	12
Oct 2025	Fire Prevention and Firefighting Training	1	20
Oct 2025	HR Policies and Regulations Training	1	34
Apr & Jun 2025	Underground Cable Technical Training	1	3
Apr 2025	PVsyst Software Training	1	3

Jul 2025	Data Analytics Training Course	1	1
2024 & 2025	Total	21	279

SDG 13 – Climate Action

As per ACM0002 (Version 21.0), paragraph 34, the project emission for the solar power project is zero.

E.3. Calculation of leakage

>>

No leakage emissions are considered as per the chosen methodology ACM0002, V19.

E.4. Calculation of net benefits or direct calculation for each SDG Impact

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
7	Affordable & Clean Energy	0	1,021,489 MWh	1,021,489 MWh
8	Decent Work & Economic Growth	0	Job created: 63 Training conducted: 21	Job created: 63 Training conducted: 21
13	Climate Action	822,272 tCO ₂	0 tCO ₂	822,272 tCO₂

E.5. Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values⁵ achieved during this monitoring period
7	1,174,591 MWh	1,021,489 MWh
8	Jobs: 82 Training: 2	Jobs: 63 Training: 21

⁵ Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

13	945,517 tCO ₂	822,272 tCO ₂
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E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

>>

SDG 7 – Affordable & Clean Energy

Year	Ex ante calculation approved PDD for this monitoring period	Remarks
2024	$(671,195 \div 12 \text{ months}) \times 7 \text{ months} = 391,530 \text{ MWh}$	Crediting periods start date: 02/06/2019
2025	$(671,195 \div 12 \text{ months}) \times 12 \text{ months} = 671,195 \text{ MWh}$	Monitoring period: 01/06/2024 – 28/02/2026
2026	$(671,195 \div 12 \text{ months}) \times 2 \text{ months} = 111,866 \text{ MWh}$	Estimated power generation: 671,195 MWh/year
Total	1,174,591 MWh	

SDG 8 – Decent work & Economic Growth

No calculations are involved to estimate the SDG 8 outcome as the values provided in the approved PDD are based on the actual data available at the time of registration.

SDG 13 – Climate Action

Year	Ex ante calculation approved PDD for this monitoring period	Remarks
2024	$(540,295 \div 12 \text{ months}) \times 7 \text{ months} = 315,172 \text{ tCO}_2$	Crediting period start date: 02/06/2019
2025	$(540,295 \div 12 \text{ months}) \times 12 \text{ months} = 540,295 \text{ tCO}_2$	Monitoring period: 01/06/2024 – 28/02/2026
2026	$(540,295 \div 12 \text{ months}) \times 2 \text{ months} = 90,049 \text{ tCO}_2$	Estimated emission reduction: 540,295 tCO ₂ /year
Total	945,517 tCO₂	

E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

>>

The actual power generation and emission reduction are less than the estimated in the approved PDD and thereby it is not applicable.

SECTION F. SAFEGUARDS REPORTING

>>

As per section D.1 of approved PDD, no safeguarding principle needed mitigation measures other than the "3. Community Health, Safety & Working conditions". The mitigation measure is conducting safety training for the employees regularly during the project operation.

The project activity is conducting minimum 1 safety training per year for the employee. 21 training courses were conducted in 2024, 2025 and 2026.

SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.

>>

During the current monitoring period, no comments were received through grievance mechanism in place as follows:

Methods	Descriptions
Continuous Input / Grievance Expression Process Book	The process book is located at the site office (floor 1, BIM Salt JSC, Highway 1A, Quan The Hamlet, Phuoc Minh Commune, Thuan Nam District, Ninh Thuan Province, Vietnam) as per stakeholders' suggestion.
Telephone access	Project Proponent: Mr. Nguyen Phuong Trung (BIM Group) +84 936656694
Internet/email access	Project Proponent: Mr. Nguyen Phuong Trung trung.np@bimgroup.com

Gold Standard:

info@goldstandard.org

Location of the grievance book is placed on the notice board of the site office.



G.2. Report on any stakeholder mitigations that were agreed to be monitored.

>>

No stakeholder mitigations were agreed to monitor.

G.3. Provide details of any legal contest that has arisen with the project during the monitoring period

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No legal contest was raised with project during the monitoring period thereby not applicable.

Annex 1 – Breakdown History during this Monitoring Period**18E (30MW)**

Month	Incidents	Estimated Energy Loss (MWh)
March 2023	▪ EVN Curtailment	1,227
April 2023	▪ EVN Curtailment	775
May 2023	▪ EVN Curtailment	913
June 2023	▪ EVN Curtailment	681
July 2023	▪ EVN Curtailment	497
August 2023	▪ EVN Curtailment	1,286
September 2023	▪ EVN Curtailment	1,410
October 2023	▪ EVN Curtailment	999
November 2023	▪ EVN Curtailment	649
December 2023	▪ EVN Curtailment	773
January 2024	▪ EVN Curtailment	588
February 2024	▪ EVN Curtailment	485
March 2024	▪ EVN Curtailment	77
April 2024	▪ EVN Curtailment	38
May 2024	▪ EVN Curtailment	21
Total		10,420

18N + 18NX (250MW + 75 MW)

Month	Incidents	Estimated Energy Loss (MWh)
March 2023	▪ EVN Curtailment	1,316

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April 2023	▪ EVN Curtailment ▪ Scheduled replacement of equipment	650
May 2023	▪ EVN Curtailment	894
June 2023	▪ EVN Curtailment	1,025
July 2023	▪ EVN Curtailment	142
August 2023	▪ EVN Curtailment	2,657
September 2023	▪ EVN Curtailment	3,358
October 2023	▪ EVN Curtailment	7,331
November 2023	▪ EVN Curtailment	7,695
December 2023	▪ EVN Curtailment	3,605
January 2024	▪ EVN Curtailment ▪ MV Fuse TUC33 blown	2,330
February 2024	▪ EVN Curtailment	6,521
March 2024	▪ EVN Curtailment	2,772
April 2024	▪ EVN Curtailment	3,032
May 2024	▪ EVN Curtailment ▪ Cable terminal connection 315C burned ▪ Fuse TT31 blown	3,478
Total		46,806

18S (50MW)

Month	Incidents	Estimated Energy Loss (MWh)
March 2023	▪ EVN Curtailment	132
April 2023	▪ EVN Curtailment	47

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May 2023	▪ EVN Curtailment	73
June 2023	▪ EVN Curtailment	133
July 2023	▪ EVN Curtailment	16
August 2023	▪ EVN Curtailment	345
September 2023	▪ EVN Curtailment	469
October 2023	▪ EVN Curtailment	940
November 2023	▪ EVN Curtailment	836
December 2023	▪ EVN Curtailment	275
	▪ Damaged Voltage Transformer 371	
January 2024	▪ EVN Curtailment	211
February 2024	▪ EVN Curtailment	789
March 2024	▪ EVN Curtailment	208
April 2024	▪ EVN Curtailment	123
May 2024	▪ EVN Curtailment	98
Total		4,694

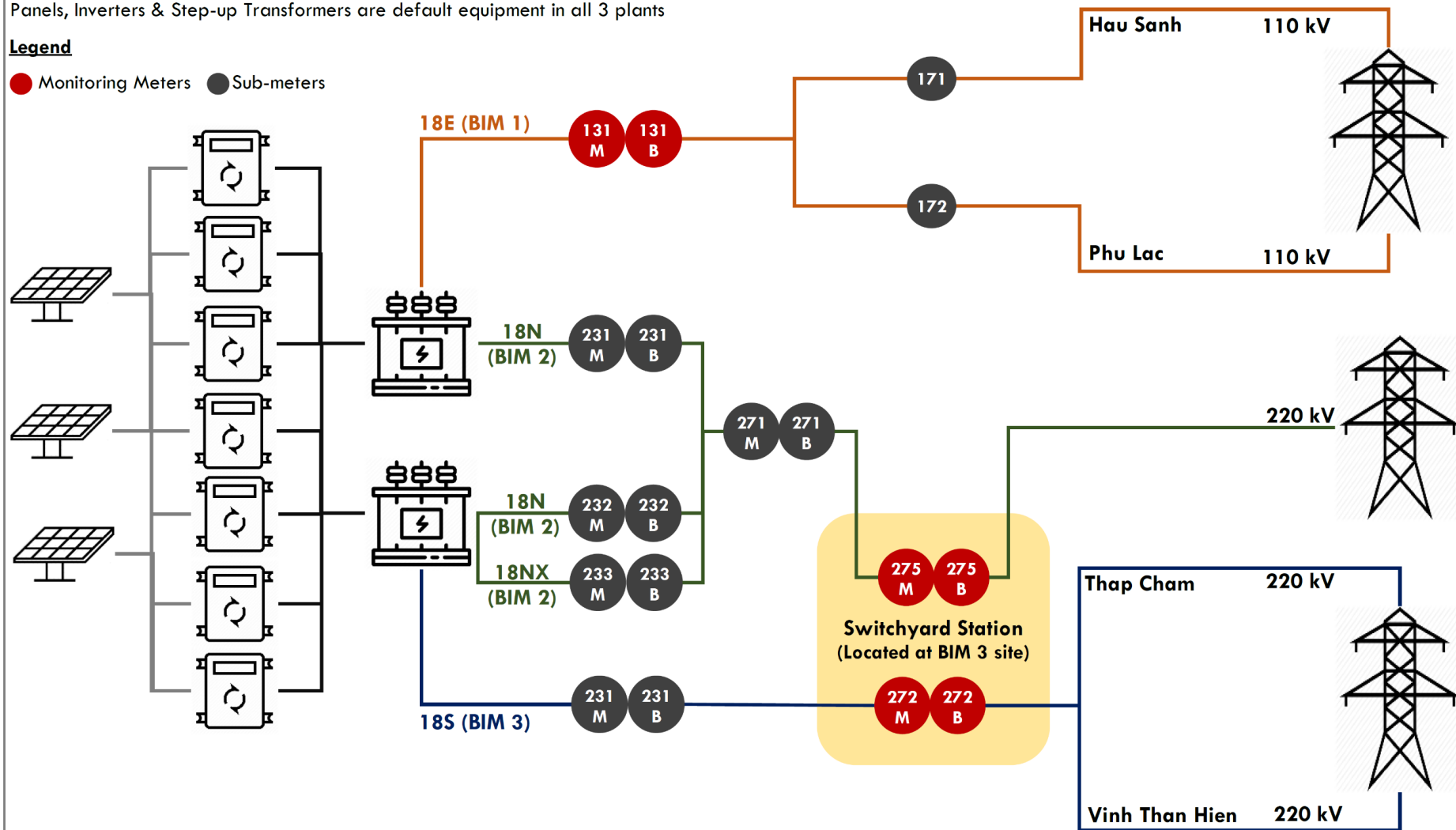
Annex 2 – Metering Layout of three plants

Note

Panels, Inverters & Step-up Transformers are default equipment in all 3 plants

Legend

● Monitoring Meters ● Sub-meters



Revision History

Version	Date	Remarks
1.1	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Section for POA monitoring Forward action request section Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on safeguard reporting Clarity on design changes Leakage section added for VER/CER projects Addition of Comparison of monitored parameters with last monitoring period Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.0	10 July 2017	Initial adoption