

TEMPLATE

KEY PROJECT INFORMATION & PROJECT DESIGN DOCUMENT (PDD)

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VERSION **v. 1.2**

RELATED SUPPORT

- TEMPLATE GUIDE Key Project Information & Project Design Document v.1.2

This document contains the following Sections

Key Project Information

0 – Description of project

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Appendix 1 – Safeguarding Principles Assessment (mandatory)

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KEY PROJECT INFORMATION

GS ID of Project	GS 12026
Title of Project	Cuamba solar project
Time of First Submission Date	03/04/2023
Date of Design Certification	-
Version number of the PDD	01
Completion date of version	28/03/2023
Project Developer	Central Eléctrica de Tetereneane, S.A
Project Representative	Swiss Carbon Assets Ltd.
Project Participants and any communities involved	NA
Host Country (ies)	Mozambique
Activity Requirements applied	<input type="checkbox"/> Community Services Activities <input checked="" type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities <input type="checkbox"/> N/A
Scale of the project activity	<input type="checkbox"/> Micro scale <input type="checkbox"/> Small Scale <input checked="" type="checkbox"/> Large Scale
Other Requirements applied	NA
Methodology (ies) applied and version number	ACM0002: Grid-connected electricity generation from renewable sources: Version 21
Product Requirements applied	<input type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A
Project Cycle:	<input type="checkbox"/> Regular <input checked="" type="checkbox"/> Retroactive

Table 1 – Estimated Sustainable Development Contributions

Sustainable Development Goals Targeted	SDG Impact (defined in B.6.)	Estimated Annual Average	Units or Products
7 Affordable and Clean Energy	MWh of renewable energy generated	36,088 MWh/Annum	
8 Decent Work and Economic Growth	Employees	300 <i>(indirect at construction phase)</i>	
13 Climate Action (mandatory)	Emission Reduction	28,185 tCO ₂ e/Annum	

SECTION A. DESCRIPTION OF PROJECT

A.1 Purpose and general description of project

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The main purpose of the project activity is to generate electrical energy through sustainable means using solar power resources, the generated green electricity will contribute to climate change mitigation efforts. This project activity is a large-scale solar project. The PV Plant will have a minimum installed peak power of 18.785 MW_{DC} with an export capacity up to 15MW_{AC}. The project will produce 36,088 MWh of electricity, thereby displacing grid power that will reduce 28,185 tCO₂e/Annum. Further the current project activity is new grid connected power plant and it is not registered under any carbon-credit mechanism.

The details of the project timeline are mentioned in the table below:

Implementation	Dates ¹
Feasibility study report (FSR)	01/09/2017
Power purchase agreement (PPA)	30/09/2020
Environmental and Social Impact Assessment Report (ESIA)	07/04/2021
Amendment Agreement to Power purchase agreement (PPA)	30/06/2021
Board Decision	08/12/2021
Noticed to Proceed (<i>considered as a project start date</i>)	20/12/2021

Scenario existing prior to the implementation of the project activity:

As the project activity is the installation of a new grid-connected renewable power plant/unit. The scenario existing prior to the implementation of project activity is Electricity delivered to the grid by the project activity would have otherwise been generated by fossil fuel.

Baseline Scenario:

¹ All dates are mentioned in DD/MM/YY Format.

Baseline scenario and Scenario existing prior to the implementation of the project activity are both same.

Sustainable Development:

The project's contribution towards sustainable development has been addressed based on the following sustainable development aspects:

- **Social well-being:** The project activity will generate direct & indirect job opportunities to the local people during construction, erection & commissioning, and maintenance of the Solar power project which would eventually help in social upliftment of the local population. This type of projects provides strength to the national energy security as well as supports in the technological advancement of the society.
- **Environmental well-being:** Solar Power Project is considered as one of the cleanest renewable sources of energy and does not involve any fossil fuel. There are no GHG emissions associated from the project activity. The impact on land, water, air and soil is negligible. Thus, the project activity contributes to environmental well-being without causing any negative impact on the surrounding environment.
- **Economic well-being:** The project activity generates permanent and temporary employment opportunities within the vicinity of the project. The electricity supply in the nearby area improves which directly and indirectly improves the economy and life standard of the area.

Project Boundary

The Photovoltaic Plant PV Cuamba is located adjacent to Cuamba town, Niassa Province, Mozambique. Hence the project boundary includes the Solar Project activity, sub-station, and grid.

A.1.1. Eligibility of the project under Gold Standard

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The project activity belongs to the type of Renewable energy that generate and deliver power to the grid. The project applies methodology ACM0002 Version21², which is an approved methodology under Gold Standard. The project activity meets the eligibility criteria as per section 3.1.1 of GS4GG Principles & Requirements document as described below:

Eligibility Criteria Category	Description	Justification	Criterion met?
Types of Projects	The project type is a large-scale Solar Power Plant which generates power using Solar Energy. The project activity belongs to the type of Renewable energy that generate and deliver power to the grid. The project applies methodology ACM0002 Version 21, which is an approved methodology under Gold Standard.	The Solar Power Plant Project is conceived as a grid connected large solar power plant within the category of renewable energy supply.	Yes
Location of Project	The Photovoltaic Plant PV Cuamba is located adjacent to Cuamba town, in the west, in Niassa Province, Mozambique.	Central Eléctrica de Teterane, S.A ³ has signed the Power purchase agreement with Electricidade-de Mozambique (EDM) ⁴	Yes

² <https://cdm.unfccc.int/methodologies/DB/HF3LP6O41YY0JIP1DK6ZRJO9RSCX3S>

³ Project Owner

⁴ Electricidade de Moçambique, E.P. (EDM-E.P. or simply EDM) is a state-owned energy company of Mozambique, which deals with the generation, transmission, distribution and sale of electricity.

Project Area, Project Boundary and Scale	Project Area and Boundary are defined in line with the applicable Methodologies ACM0002. The project activity includes 18.785 MW (DC) installed capacity and is greenfield large solar power plants which is in accordance with UNFCCC rules.	The Photovoltaic Plant PV Cuamba is located adjacent to Cuamba town, in the west, in Niassa Province, Mozambique. The project has an installed capacity of 18.785 MW which is more than 15 MW, therefore applies as a Large-Scale project.	Yes
Host Country Requirements	The project activity follows the social wellbeing, Environmental wellbeing, Economic wellbeing, and Technological wellbeing.	Projects follows host country 's legal, environmental, ecological, and social regulations.	Yes
Contact Details	Project Developer: Central Eléctrica de Teterane, S.A Name: Mr. Mahomed Salé Role: Director EMAIL: samir.sale@globeleq.com	GS4GG-Cover Letter	Yes
Legal Ownership and Other Rights	The project activity is being developed by the Central Eléctrica de Teterane, S.A	The PPA is in the name of Central Eléctrica de Teterane, S.A.	Yes
Official Development Assistance (ODA) Declaration:	The PP hereby confirms that there is no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) involved in the project activity. The	Refer Section A.5 for the information of funding sources of project. The signed cover letter declaration could be referred to in this regard.	Yes

	project is funded by own equity from the shareholders and debt from national bank.		
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A.1.2. Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project

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Central Eléctrica de Teterane, S.A is the legal owners of the project activity and have the legal rights for the credits that shall be generated by this project activity.

A.2 Location of project

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The Photovoltaic Plant PV Cuamba is located adjacent to Cuamba town, Niassa Province, Mozambique. The Coordinates of project: 14°48'4,268" S and 36°30' 22,970" E, at an altitude of 572 m.

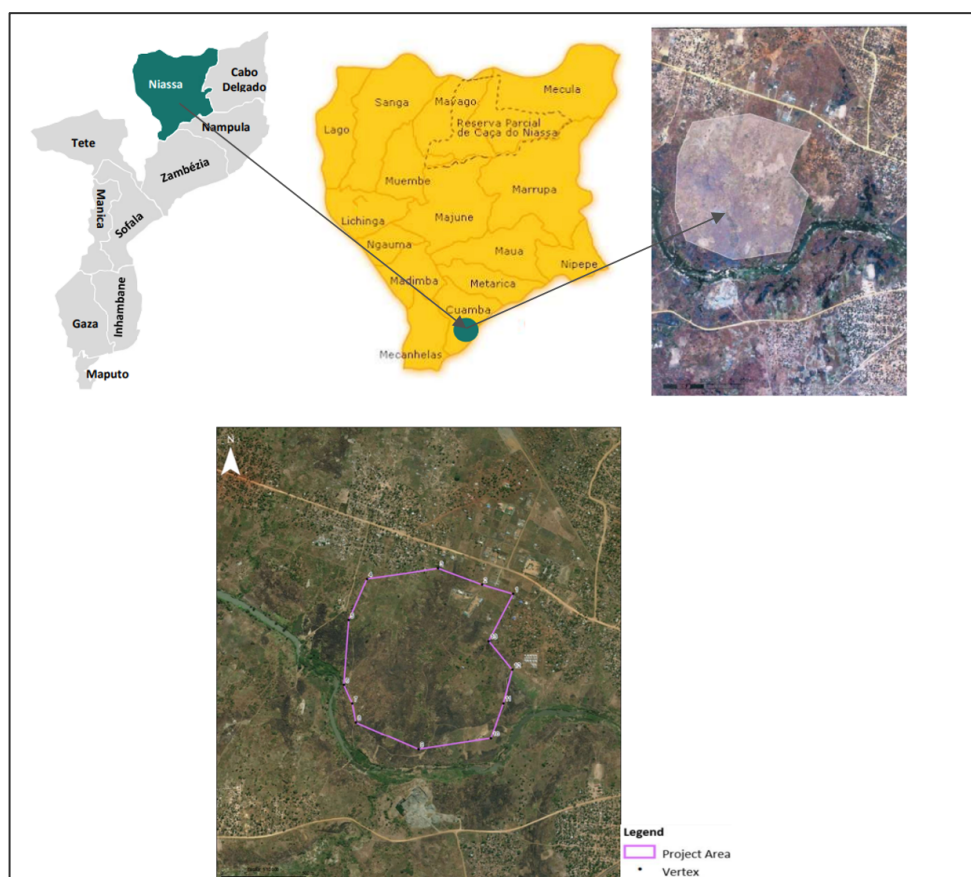


Figure 1 Project location

A.3 Technologies and/or measures

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The project activity involves installation of 18.785 MW_{DC} with an export capacity up to 15 MW_{AC}. The PV system will mainly consist of PV modules, module mounting structures, inverters, regulators, monitoring devices etc.

Item	Description
Plant Capacity	18.785 MW (DC)/ 15 MW (AC).
Solar PV Module	
Make	Jinko Solar
Model	JKM330PP-72-V
Capacity	310-330 Watt
Cell Type	Poly-crystalline
Maximum Power (P _{max}) @STC	330 Wp
Maximum Power current (Imp) @STC	8.74 A
Module Efficiency (%) @STC	17.01%
Inverters	
Make	Ingecon
Model	1500TL B578
Maximum Voltage	1500 V
Maximum Current	2000 A
Recommended PV array range	1377-1887 KW _p
Numbers of Inverters	11
Solar Tracking system	
Make	Pia Solar
Tracking System	Fixed Tilt

Purpose of the Project

The purpose of the project activity is to generate electrical power using solar energy, there by displacing non-renewable fossil resources resulting to sustainable, economic an environmental development. In the absence of the project activity equivalent amount of power generation would have taken place through fossil fuel dominated power generating stations. Thus, the renewable energy generation from project activity will result in reduction of the greenhouse gas emissions.

A.4 Scale of the project

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As per Section 9.1.1 of [GHG Emissions Reductions & Sequestration Product Requirements](#) : *"GSVER Projects may be registered as 'large scale', 'small scale' (for the applicability of methodologies and tools only) or 'microscale'. Scale is defined in the relevant Activity Requirements"*

Further as per section 3.3.2 b) of [Renewable Energy Activity Requirements](#) : *"For the purpose of applying GS approved methodologies for quantification of GS VERs/CERs, 'small scale' is defined as per the indicated type, as follows; i. Renewable energy Project with a maximum output capacity of 15 MW (or an appropriate equivalent). In this context: a. "Output" is the installed/rated capacity as indicated by the manufacturer of the equipment or plant, irrespective of the actual load factor of the plant. The installed/rated capacity of renewable electricity generating units that involve turbine generator systems shall be based on the installed/rated capacity of the generator."*

Hence the for the current project activity the total installed capacity is greater than 15MW hence the **current project activity is large scale project.**

A.5 Funding sources of project

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The Central Eléctrica de Tetereane, S.A hereby confirms that there is no public funding from Annex 1 countries and no diversion of Official Development Assistance (ODA) involved in the project activity.

SECTION B. APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS

B.1. Reference of approved methodology (ies)

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Title: Grid-connected electricity generation from renewable sources. ACM0002 "Grid connected electricity generation from renewable sources" Version-21

<https://cdm.unfccc.int/methodologies/DB/HF3LP6O41YY0JIP1DK6ZRJO9RSCX3S>

Tool-1: Tool for the demonstration and assessment of additionality 7.0

<https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

Tool-7: Tool to calculate the emission factor for an electricity system 7.0

<https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

B.2. Applicability of methodology (ies)

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The project activity meets the applicability conditions of the approved consolidated baseline and monitoring methodology [ACM0002, Version 21](#) for Greenfield projects as described below:

Applicability	Project activity vis-à-vis applicability Conditions
1. This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s). (c) Involve a retrofit of (an) existing operating plant(s)/unit(s). (d) Involve a rehabilitation of (an) existing plant(s)/unit(s). or (e) Involve a replacement of (an) existing plant(s)/unit(s).	The project activity is installation of a new grid connected solar power plant/unit at a site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plant) and hence this criterion is applicable.
2. In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Integrate BESS with a Greenfield power plant. (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar	A) The current project activity is greenfield project B) NA C) NA D) NA

<p>photovoltaic or wind power plant(s)/unit(s).</p> <p>(c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s);</p> <p>(d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s).</p>	
<p>3. The methodology is applicable under the following conditions:</p> <p>(a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit;</p> <p>(b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the</p>	<p>The proposed project activity is an installation of a new grid connected solar power plant/ unit and hence criteria under point (a) is met.</p> <p>The project does not involve any capacity additions, retrofits or replacements and therefore this criterion under point (b) is not applicable.</p>

<p>implementation of the project activity;</p> <p>(c) In case of Greenfield project activities applicable under paragraph 5 (a) above,⁵ the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents);</p> <p>(d) The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below⁶. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant.</p>	
<p>4. In case of hydro power plants, one of the following conditions shall apply:</p> <p>(a) The project activity is implemented in existing single or multiple reservoirs,</p>	<p>The proposed project activity is an installation of a new grid connected Solar power plant/ unit and not Hydro</p>

⁵ In reference to ACM0002: Ver 21

⁶ In reference to ACM0002: Ver 21

<p>with no change in the volume of any of the reservoirs; or</p> <p>(b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7),⁷ is greater than 4 W/m²: or</p> <p>(c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7),⁸ is greater than 4 W/m²: or</p> <p>(d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (7),⁹ is lower than or equal to 4 W/m², all of the following conditions shall apply:</p> <p>(i) The power density calculated using the total installed capacity of the integrated project, as per equation (8),¹⁰ is greater than 4 W/m²;</p> <p>(ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity.</p>	<p>power plant, therefore this criterion is not applicable for this project activity.</p>
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⁷ In reference to ACM0002: Ver 21

⁸ In reference to ACM0002: Ver 21

⁹⁹⁹ In reference to ACM0002: Ver 21

¹⁰ In reference to ACM0002: Ver 21

<p>(iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be: a. Lower than or equal to 15 MW; and b. Less than 10 per cent of the total installed capacity of integrated hydro power project.</p>	
<p>5. In the case of integrated hydro power projects, project participants shall:</p> <p>(a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or</p> <p>(b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will consider seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.</p>	<p>The proposed project activity is an installation of a new grid connected Solar power plant/ unit and not Hydro power plant, therefore this criterion is not applicable for this project activity</p>

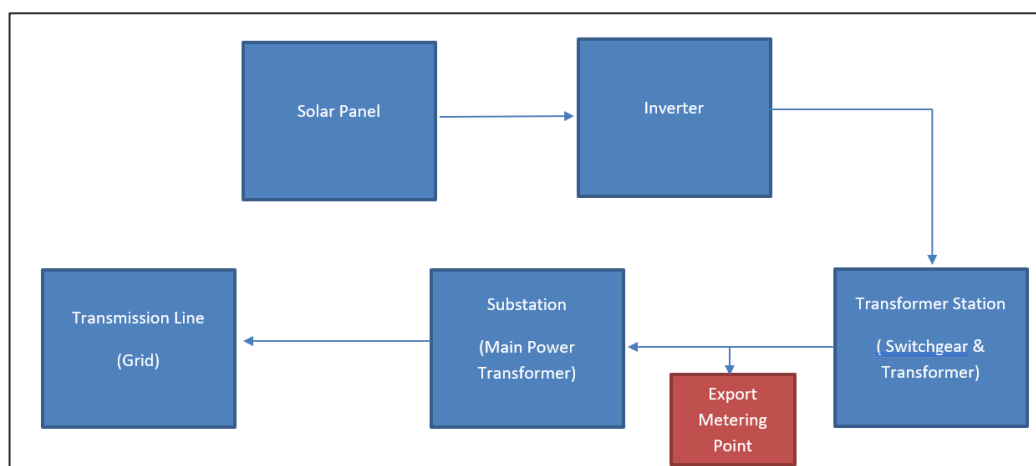
<p>6. The methodology is not applicable to:</p> <p>(a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;</p> <p>(b) Biomass fired power plants/units.</p>	<p>The project activity is installation of a new grid connected Solar power project/ unit and does not involve switching from fossil fuel to renewable energy, therefore criterion described in point (a) is not relevant to the project activity. This is a Solar power plant/ unit and not a biomass fired plant, therefore criterion described in point (b) is not applicable to the project activity.</p>
<p>7. In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".</p>	<p>The project activity is a new grid connected Solar power plant/ unit and not a retrofits, replacement or capacity additions and therefore this criterion is not applicable to the project activity.</p>

B.3. Project boundary

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As per applied methodology ACM002 Section 5.1 of Parra 22 "The spatial extent of the project boundary includes the project power plant/unit and all power plants/units connected physically to the electricity system that the CDM project power plant is connected to"

Hence the project boundary includes the Solar Project activity, sub-station, grid and all power plants connected to grid. The proposed project activity will evacuate power to the local grid.



	Source	GHGs	Included?	Justification/Explanation
Baseline scenario	Grid connected electricity generation	CO ₂	Yes	Main emission source
		CH ₄	No	Minor emission source
		N ₂ O	No	Minor emission source
Project scenario	Greenfield Solar Power Project Activity	CO ₂	Yes	Major emission source
		CH ₄	No	Minor emission source
		N ₂ O	No	Minor emission source

B.4. Establishment and description of baseline scenario

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As per the approved consolidated Methodology ACM0002 paragraph 22: “If the project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity which would otherwise have been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in “Tool 07: Tool to calculate the emission factor for an electricity system”.

The project activity involves the development of solar projects to harness the power of the sun’s irradiation to produce electricity and supply the grid. In the absence of the project activity, equivalent electricity would be drawn from the grid, which is fed mainly by fossil fuels.

Electricity Grid emission factor for Host country:

The project activity involves setting up of solar panels to harness the solar energy to produce electricity and supply to the grid. Baseline emissions include only CO₂ emissions

from electricity generation in grid connected fossil fuel fired power plants that are displaced due to the project activity.

The following options can be applied by the project owner to determine the baseline grid emission factor, where applicable:

Serial No	Options	Result	Rationale
1.	Using CDM Tool 07: "Tool to calculate the emission factor for an electricity system";	Not applicable	The data required to calculate the emission factor in accordance with the TOOL 07 is not readily available or published by the host country. Hence, this option cannot be considered.
2.	Latest published Emission factor derived by International Energy Agency (IEA)	Applicable	PP has opted for the Latest published Emission factor derived by International Energy Agency (IEA).

However, PP has opted for latest IEA database and will update the Emission Factor. The Grid emission factor for SAPP Member country i.e., "Mozambique"; applied for the project activity is as follows:

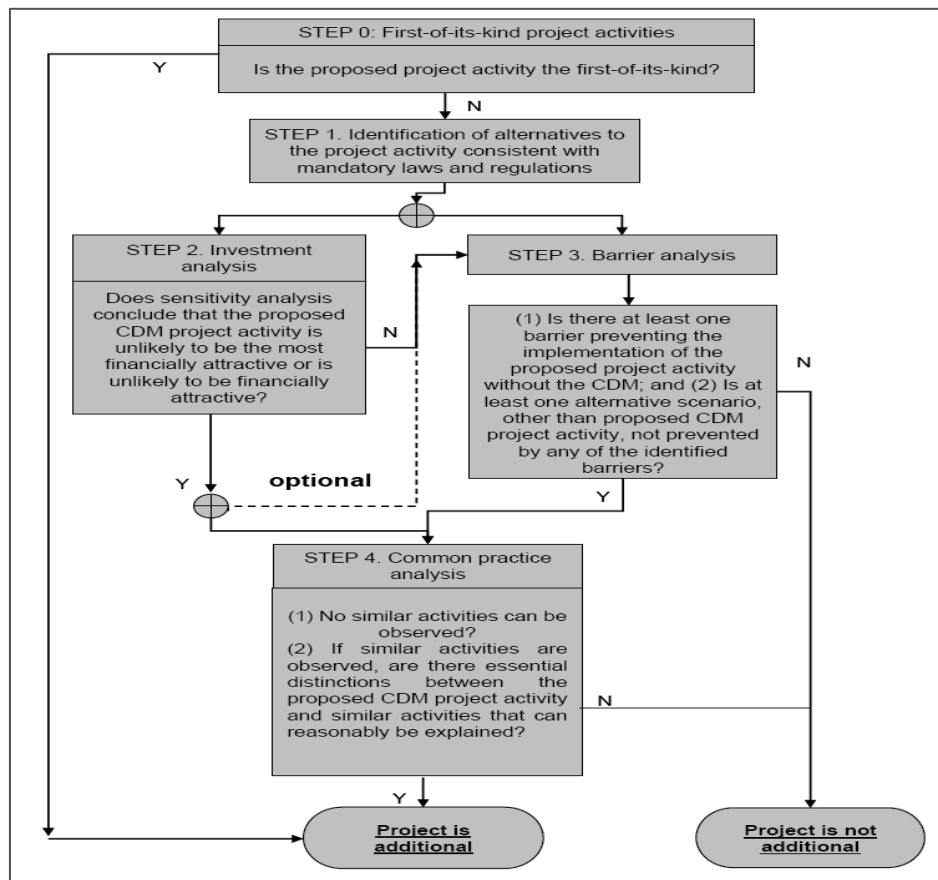
Parameter	Value	Source
EF _{grid, CM,y}	0.781 tCO ₂ /MWh	Source: IEA (2022) Emission Factors

B.5. Demonstration of additionality

The Project follows the methodology ACM0002 for the demonstration of additionality. Since the project technology is not included in the positive list stated in ACM0002, the additionality of the project activity shall be demonstrated and assessed using the latest version of "Tool 01: Tool for the demonstration and assessment of additionality".

The stepwise approach to establish additionality of the project activity has been followed, where the details are provided in the following paragraphs:

The detailed application of TOOL01 is described below:



Step 0: Demonstration whether the proposed project activity is the first-of-its-kind: This step is optional. If it is not applied, it shall be considered that the proposed project activity is not the first-of-its-kind. The project is not a first of its kind in host county, thus, Step 0 is not applicable.

Step 1 – Identification of alternatives to the project activity consistent with current laws and regulations

As per the applied methodology ACM0002; Para 22, if the project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid connected power plant and by the addition of new generation sources. As the baseline scenario is prescribed by applied methodology, hence no further analysis is carried out to identify alternatives.

Step 2 - Investment Analysis

Step 2: Investment Analysis As per para 29 of “Tool for the demonstration and assessment of additionality” v7.0.0, it is determined that the proposed project activity is not an economically or financially feasible option. To conduct the investment analysis, Methodological tool: Investment analysis, version 8 (EB 97 annex 08) has been referred.

Sub-step 2a: Determine appropriate analysis method As per para 29 of “Tool for the demonstration and assessment of additionality” (version 07.0.0), for financial analysis of the project, the following three options are available: Option I: Simple Cost Analysis Option II: Investment Comparison Analysis Option III: Benchmark Analysis

The project will generate revenues from sale of electricity; therefore, Option I is not applicable. Option II also does not apply since there is no comparable investment alternative available to the project participant. In line with the para 32 of the Tool the most appropriate financial analysis method is therefore option III: the benchmark analysis, where the returns on investment in the project activity are compared to benchmark returns that are available to any investors in the country.

Sub-step 2b: Option III. Apply benchmark analysis

Project Participants have considered Post-Tax Equity IRR for investment analysis at the time of decision-making. As Project Participants is only interested in the returns project is generating on the portion of investment costs, which is financed by them in the form of equity. As per Para 15 of EB105, Annex 06 states that Required/expected returns on equity are appropriate benchmarks for an equity IRR. Therefore, the Expected return on equity is considered appropriate benchmark. Accordingly, the post-tax Equity IRR has been considered as the relevant financial indicator for Investment Analysis.

Determination of Benchmark:

The Required return on equity (benchmark) was computed in the following manner:

$$\text{Nominal Benchmark} = \{(1 + \text{Real Benchmark}) * (1 + \text{Inflation rate})\} - 1$$
 Where:

- A. Default value for Real Benchmark is the default value of expected return on equity in real terms for Energy Industries (Group 1) in Mozambique as provided in the Appendix.
- B. Inflation Rate forecast for Mozambique as per IMF website.

Benchmark estimation Default Value as per Investment Analysis Table (Version 11) specifies default value of expected return on equity in real terms for Energy Industries (Group 1) in Mozambique = 16.25

Inflation Rate forecast for by IMF over the years is as follows.

Year-1(2022)	Year-2(2023)	Year-3 (2024)	Year-4 (2025)	Year-5 (2026)
11.3	8.6	8.2	6.7	5.9

A/v Inflation rate for last 5 years= 8.14

Note: As per CDM tool 27, Version 11 Para 16: "the average forecasted inflation rate for the host country published by the IMF (International Monetary Fund World Economic Outlook) or the World Bank for the next five years after the start of the project activity shall be used" Hence that is why PP has taken the A/V inflation rate from 2021 (20/12/2021 i.e; start date of the project)

Benchmark Calculations	Value
Default Value for host country as per UNFCCC guidelines	16.25%
Inflation forecast as per IMF (Average for 5 years)	8.14%
Benchmark Equity IRR	25.71%

Sub-step 2c: Calculation and comparison of financial indicators (only applicable to Options II and III):

Considering the input values, Equity IRRs is given below:

Equity IRR without CDM	Benchmark (Equity IRR)
12.25%	25.71%

B.5.1 Prior Consideration

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As per rule update by [Gold Standard Principle & requirement](#). The project starts date, and the stakeholder consultation date determines the project as (a) Regular Projects, for which the Stakeholder Consultation (1st round) has been conducted before the Project Start Date. (b) Retroactive Projects, for which the Stakeholder Consultation (1st round) is conducted after the Project Start Date. Further the current project activity is

retroactive project. Hence **“In order to be eligible under Gold Standard a retroactive project must submit the required documents to Gold Standard (time of first submission) within one year of its start date”**. The GS documents were uploaded on the Sustain-cert within one year from the project start date.

Project start date	20/12/2021
GS documents uploaded for listing	09/12/2022 <i>(within one year from the project start date)</i>

B.5.2 Ongoing Financial Need

>> Not Applicable as project is not applying for Design Certification Renewal.

B.6. Sustainable Development Goals (SDG) outcomes

Relevant Target/Indicator for each of the three SDGs :

Sustainable Development Goals Targeted	Most relevant SDG Target	SDG Impact
		Indicator (Proposed or SDG Indicator)
SDG 7: Affordable and Clean Energy	7.2: By 2030, increase substantially the share of renewable energy in the global energy mix	7.2.1: Renewable energy share in the total final energy consumption
	Target: 36,088 MWh per annum	
SDG 8: Decent Work and Economic Growth	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	8.5.1: Average hourly earnings of female and male employees, by occupation, age and persons with disabilities
	Target: Employment: 300 no's annually Employment (indirect at construction phase)	

<p>SDG 13: Climate Action</p>	<p>13.2: Integrate climate change measures into national policies, strategies and planning</p> <p>Target: 28,185 tCO₂e/Annum</p>	<p>13.2.1: Number of countries that have communicated establishment or operationalization of an integrated policy/ strategy/ plan which increases their ability to adapt to the adverse impacts of climate change, and foster climate resilience and low greenhouse gas emissions development in a manner that does not threaten food production (including a national adaptation plan, nationally determined contribution, national communication, biennial update report or other)</p>
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B.6.1 Explanation of methodological choices/approaches for estimating the SDG Impact

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For this project activity, following SDGs are expected to be impacted:

SDG 7: Affordable and Clean Energy The baseline for the project is no project, thus leading to generation in the relevant grid which is dominated by fossil fuel. The clean energy generated by the project is calculated based on the amount of electricity generated by the project per annum. The project is expected to generate 36,088 MWh of clean energy per annum.

SDG 8: Decent Work and Economic Growth The project leads to Trainings & workshops which are conducted for the O&M staff of the PP. The project will provide employment to approximately 300 no's annually Employment (indirect at construction phase) including O&M staff, management, outsourced jobs as well as security guards during the O&M phase.

SDG13 : Climate Action :

The project leads to mitigation of 28,185 tCO₂e/Annum. As per the approved consolidated Methodology ACM0002 Emission reductions are calculated as follows:

As per the approved consolidated Methodology ACM0002 Emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y \text{ Where:}$$

ER_y = Emission reductions in year y (t CO₂e/yr)

BE_y = Baseline emissions in year y (t CO₂/yr)

PE_y = Project emissions in year y (t CO₂e/yr)

Baseline Emissions: Baseline Emissions for electricity supplied by project activity, BE_y is calculated as $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$

Where: BE_y = Baseline emissions in year y (t CO₂/yr)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid because 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 the "Tool to calculate the emission factor for an electricity system" (t CO₂/MWh)

Calculation of $EG_{PJ,y}$

The calculation of $EG_{PJ,y}$ is different for

- a) Greenfield plants,
- b) Retrofits and replacements, and
- c) Capacity additions

The project activity is the green field project.

So, the formula in option (a) i.e., greenfield plants is used to calculate the value of $EG_{PJ,y}$. In accordance with para 46 of the applied methodology: $EG_{PJ,y} = EG_{facility,y}$

Calculation of $EF_{grid,y}$

combined margin (CM) emission factor can be adopted and applied to the emission reduction calculation for this project activity for the time being till the latest IEA database is not available to PP. The combined margin emission factor and grid emission factor value used to calculate the emission reductions of this solar project is 0.781 tCO₂/MWh.

Project Emissions

Project emissions are equal to 0 as the project is an installation of a solar power plant with no auxiliary fossil fuel consumption.

Leakage

No leakage emissions are to be considered.

B.6.2 Data and parameters fixed ex ante

SDG13

Data/parameter	$EF_{grid,y}$
Unit	tCO ₂ e/MWh
Description	emission factor of the grid in year y
Source of data	As per IEA 2022 data
Value(s) applied	0.7180 tCO ₂ e/MWh
Choice of data or Measurement methods and procedures	Default value.
Purpose of data	Calculation of baseline emissions
Additional comment	-

B.6.3 Ex ante estimation of SDG Impact

>>

SDG 7: Affordable and Clean Energy

Project expected to generate 36,088 MWh clean energy every year.

SDG 8: Decent Work and Economic Growth

providing employment to approximately 300 no's annually Employment (indirect at construction phase).

SDG13: Climate Action

The project leads to mitigation of 28,185 tCO₂e per annum.

Calculation of Outcome for SDG13:

Climate Action Baseline emissions The baseline emissions are the product of electrical energy baseline $EG_{PJ,y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by an emission factor.

$$BE_Y = EG_{PJ, facility,y} * EF_{grid,y}$$

Where, $EG_{PJ, facility, y}$ = Total quantity of net electricity delivered to the grid.

$EF_{grid, y}$ = CO₂ emission factor for grid connected power generation in year $y = 0.7180$ tCO₂e/MWh.

$BE_y = 36,088 * 0.7180 \text{ tCO}_2/\text{year} = 28,185 \text{ tCO}_2\text{e/year}$

Project emissions

$PE_y = 0$

Leakage emissions

No leakage emissions are applicable.

Emission reductions

$ER_y = BE_y = 28,185 \text{ tCO}_2\text{e/year}$

B.6.4 Summary of ex ante estimates of each SDG Impact

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0 MWh	36,088 MWh	36,088 MWh
Year 2	0 MWh	36,088 MWh	36,088 MWh
Year 3	0 MWh	36,088 MWh	36,088 MWh
Year 4	0 MWh	36,088 MWh	36,088 MWh
Year 5	0 MWh	36,088 MWh	36,088 MWh
Total	0 MWh	180,440 MWh	180,440 MWh
Total number of crediting years	5 years twice renewable		
Annual average over the crediting period	0 MWh	180,440 MWh	180,440 MWh

Year	Baseline estimate	Project estimate	Net benefit
Year 1	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)
Year 2	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)

Year 3	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)
Year 4	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)
Year 5	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)
Total	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)
Total number of crediting years	5 years twice renewable		
Annual average over the crediting period	0 Jobs	300 (indirect at construction phase)	300 (indirect at construction phase)

Year	Baseline estimate	Project estimate	Net benefit
Year 1	28,185 tCO ₂ e	0 tCO ₂ e	28,185 tCO ₂ e
Year 2	28,185 tCO ₂ e	0 tCO ₂ e	28,185 tCO ₂ e
Year 3	28,185 tCO ₂ e	0 tCO ₂ e	28,185 tCO ₂ e
Year 4	28,185 tCO ₂ e	0 tCO ₂ e	28,185 tCO ₂ e
Year 5	28,185 tCO ₂ e	0 tCO ₂ e	28,185 tCO ₂ e
Total	28,185 tCO ₂ e	0 tCO ₂ e	28,185 tCO ₂ e
Total number of crediting years	5 years twice renewable		
Annual average over the crediting period	0 MWh	140,924 tCO ₂ e	140,924 tCO ₂ e

B.7. Monitoring plan

B.7.1 Data and parameters to be monitored

SDG 7: Affordable and Clean Energy

Data / Parameter	EG _{facility,y}
Unit	MWh/yr

Description	Quantity of net electricity supplied to the grid in year y
Source of data	Monthly generated JMR and invoices
Value(s) applied	36,088 MWh
Measurement methods and procedures	Will update in validation stage
Monitoring frequency	As per Power Purchase Agreement (PPA)
QA/QC procedures	Will update in validation stage
Purpose of data	The Data/Parameter is required to calculate the baseline emission
Additional comment	-

SDG 8: Decent Work and Economic Growth

Data / Parameter	Quantitative employment,
Unit	Number (employees)
Description	Number of project employees with Number of male/female, permanent/temporary, age and person with disabilities.
Source of data	Data maintained by PP
Value(s) applied	300 <i>(indirect at construction phase)</i>
Measurement methods and procedures	Will update in validation stage
Monitoring frequency	Continuous measurement and monthly recording.
QA/QC procedures	Will update in validation stage
Purpose of data	To monitor the contribution to SDG 8 (Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all)
Additional comment	-

SDG 13: Air quality

Data / Parameter	Air quality
Unit	tCO2e
Description	Reduction in CO2 emission reduction due to implementation of project activity
Source of data	Data maintained by PP
Value(s) applied	300 <i>(indirect at construction phase)</i>
Measurement methods and procedures	Will update in validation stage
Monitoring frequency	Continuous measurement and monthly recording.
QA/QC procedures	Will update in validation stage
Purpose of data	To monitor the contribution to SDG 8 (Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all)
Additional comment	-

B.7.2 Sampling plan

>>

Sampling is not required for the given project activity.

B.7.3 Other elements of monitoring plan

>>

As per Power Purchase agreement (PPA)¹¹

SECTION C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1 Start date of project

>>

20/12/2021 (Date of noticed to proceed / EPC contract)

C.1.2 Expected operational lifetime of project

¹¹ Further PP will update this section at the time of validation stage.

>>

25 years 00 Months

C.2. Crediting period of project

C.2.1 Start date of crediting period

>>

30/04/2023 (Expected date of commissioning)

C.2.2 Total length of crediting period

>>

5 Years ((renewable twice i.e., 15 years)

SECTION D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1 Safeguarding Principles that will be monitored

A completed Safeguarding Principles Assessment is in [Appendix 1](#), ongoing monitoring is summarised below.

Principles	Mitigation Measures added to the Monitoring Plan
Principle 2. Gender Equality	The project proponent is committed to the employee's equal pay for equal work during all phases of the project
Principle 6.1 Labour Rights	The Project Developer ensures the training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures
Principle 9.5 Hazardous and Non-hazardous Waste	The waste will be disposed to the waste handlers and the firm will comply with all the local laws for monitoring and disposal.

D.2. Assessment that project complies with GS4GG Gender Sensitive requirements

Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?	Project participants do not involve and promote any discrimination about the gender differences. As per Gold Standard Gender Policy, para 13(i) "Foundational gender-sensitive requirement - This strengthens Gold Standard's 'do no harm'
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	<p>approach and addresses safeguard to prevent or mitigate adverse impacts on women or men and girls and boys. Such action is mandatory for all projects seeking Gold Standard certification and includes compliance with the gender 'do no harm' safeguards, gender gap analysis and gender sensitive stakeholder consultations". The project does not seek to graduate to gender-grade GS certification and thus foundational gender sensitive requirements have been described. CENTRAL ELÉCTRICA DE TETEREANE S.A (hereinafter referred to as "Employer") is committed to maintaining an environment where all women, enjoy a safe, friendly and supportive working environment, free of harassment and exploitation. CENTRAL ELÉCTRICA DE TETEREANE S.A has formulated and widely disseminate an internal policy for prohibition, prevention and redressal of sexual harassment at the workplace intended to promote a gender sensitive safe space and remove underlying factors that contribute towards a hostile work environment against women. The same is mentioned in the Annexure G 'Duties of Employer' of Sexual Harassment of Woman at Workplace Policy. Thus, the project does not involve and is not complicit in any form of discrimination based on gender difference.</p>
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Question 2 - Explain how the project aligns with existing country policies, strategies and best practices	Project has aligned its policies as per the existing country policies.
Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	The project does not seek to graduate to gender-grade GS certification and thus foundational gender sensitive requirements have been justified. As per GS4GG GENDER EQUALITY REQUIREMENTS & GUIDELINES, "Gold Standard may require that the Project seek the input of an Expert Stakeholder and to include their recommendations in the Project design. For projects seeking gender-responsive certification, the Gold Standard VVBs audit teams shall include gender consultants with relevant sector expertise to verify the gender claims of the project". The Project participants do not involve and promote any discrimination about the gender differences. The same is ensured into HR Policy, hence no expert Stakeholder inputs are required. Further the questions raised in the Gold Standard Safeguarding Principles & Requirements document are described under Appendix 1.
Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	The stakeholders meeting will take place on the 24th of April 2023. PP will update this latter.

SECTION E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

The below is a summary of the 2 step GS4GG Consultation for monitoring purposes. Please refer to the separate Stakeholder Consultation Report for a complete report on the initial consultation and stakeholder feedback round.

E.1 Summary of stakeholder mitigation measures

>>

As recommended, the project proponent will carry out an evaluation with local stakeholders who are potentially impacted by the project. Information about local stakeholders at the start of the project is included in this section of the PDD. The stakeholders meeting will take place on the 24th of April 2023. Local entities having some influence and activities developed in the Reference Region were chosen through a process to identify them and their impact on the project activity. Stakeholders chosen for local consultation also included potentially impacted communities and neighbors. The on-site consultation with interested parties (local communities) will take place on the Quinta Muandá, Cuamba District, Niassa Province. The meeting will have a simplified presentation about the project, a map will be used to explain where all the project activities and their repercussions are and/or will be located, exposing the risks and benefits arising from the project activities. A permanent communication channel will be created with local stakeholders to receive any comments or suggestions about this project. E-mails, phone numbers and addresses will be available in a folder should they wish to contact project proponents. It is important to note that the same contact information provided is also part of the grievance mechanism, where all comments will be received, and the results will be documented and stored in a digital format. Further PP has sent the invitation e-mail to all the stakeholder on 24. Mar.2023 which is one month prior to the meeting date.

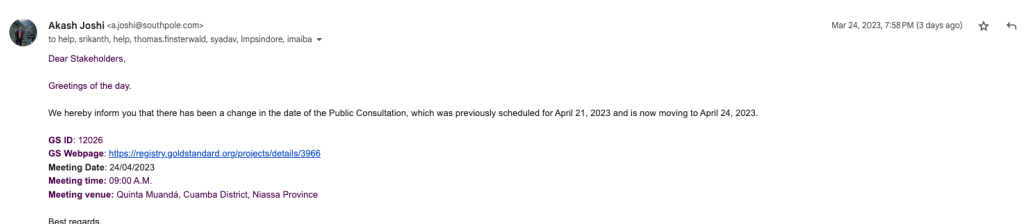


Figure 2 Invitation letter sent for the consultation.

Further PP will update this section at the time of Validation.

E.2 Final continuous input / grievance mechanism

Method	Include all details of Chosen Method (s) so that they may be understood and, where relevant, used by readers.
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Continuous Input / Grievance Expression Process Book (mandatory)	Grievance Register is maintained at project site office and is open for all.
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GS Contact (mandatory)	help@goldstandard.org
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Project Proponent

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APPENDIX 1 - SAFEGUARDING PRINCIPLES ASSESSMENT

Complete the Assessment below and copy all Mitigation Measures for each Principle into [SECTION D](#) above. Please refer to the instructions in the [Guide to Completing](#) this Form.

Assessment Questions/ Requirements	Justification of Relevance (Yes/potentially/no)	How Project will achieve Requirements through design, management or risk mitigation.	Mitigation Measures added to the Monitoring Plan (if required)
Principle 1. Human Rights			
<ol style="list-style-type: none"> 1. The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights 2. The Project shall not discriminate with regards to participation and inclusion 	No	<ol style="list-style-type: none"> 1. The Project is not in conflict with the economic livelihood or other issue of the local community. Thus, the Project does not cause any human rights abuse and respects internationally proclaimed human rights issue. Project proponent had conducted stakeholder's consultation and sought their opinion. 2. Project activities are not expected to cause any human rights abuse. The project will not employ any personnel based on gender, 	Not required.

		<p>race, religion, sexual orientation or any other basis. As the Constitution of the host country prohibits discrimination based on a person's race, sex, religion, place of birth, or social status. The host country has signed the 19 convention and 2 protocol.¹²</p>	
Principle 2. Gender Equality			
<p>1. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women</p> <p>2. Projects shall apply the principles of non-discrimination, equal</p>	No	<p>1. The Project do not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women. For this project, every employee is treated with respect and afforded equitable treatment. The</p>	Not required.

¹² https://www.ilo.org/dyn/normlex/en/f?p=1000:11200:15044045183483:::P11200_INSTRUMENT_SORT:1

<p>treatment, and equal pay for equal work</p> <p>3. The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks</p> <p>4. (where required) Summary of opinions and recommendations of an Expert Stakeholder(s)</p>		<p>grievance register has maintained at site to take stakeholder feedback.</p> <p>There is no any sexual harassment and/or any forms of violence against women. The project does not involve any slavery, imprisonment, physical and mental drudgery, punishment or coercion of women and girls. The project does not restrict of women's rights or access to resources. The project recognizes women's ownership rights regardless of marital status.</p> <p>2. Projects has applied the principles of nondiscrimination, equal treatment, and equal pay for equal work. The project has equal opportunity for both men and women. PP is committed to maintaining an environment where all women, enjoy a safe,</p>	
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		<p>friendly and supportive working environment, free of harassment and exploitation. PP has formulated and widely disseminate an internal policy to promote a gender sensitive safe space and remove underlying factors that contribute towards a hostile work environment against women.</p> <p>3. Summary of opinions and recommendations of an Expert Stakeholder is required in case of Gender responsive project activity.</p>	
Principle 3. Community Health, Safety and Working Conditions			
<p>1. The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community</p>	NO	<p>The project proponent is committed to the employee's workplace health & safety during all phases of the project. The Company strives to provide a safe, healthy, clean and ergonomic working environment for its staff. The</p>	<p>Workplace Health & Safety trainings will be conducted regularly during the project operation.</p>

		safety and security of the staff in the workplace is a primary concern of the Company ¹³ . This is also issued in the Labor code on Occupational Safety, Health and Working Conditions and UN Agreement on Human Rights. ¹⁴	
Principle 4.1 Sites of Cultural and Historical Heritage			
Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture?	No	PP has conducted a detailed Project feasibility study Report (FSR) for the project area and it is concluded that there are no protected archaeological and cultural heritage sites are reported within the project footprint.	Not Required
>>			
Principle 4.2 Forced Eviction and Displacement			
Does the Project require or cause the physical or economic	NO	The Project sites are developed by the PP. Thus,	Not required

¹³ <https://www.globeleq.com/sustainability/#health-safety>

¹⁴ <https://www.ilo.org/safework/countries/africa/mozambique/lang--en/index.htm>

relocation of peoples (temporary or permanent, full or partial)?		there is no physical or economic relocation of peoples (temporary or permanent, full or partial). Further, PP has conducted the detailed project study and the detailed picture in Site description can also be checked.	
>>			
Principle 4.3 Land Tenure and Other Rights			
a. Does the Project require any change, or have any uncertainties related to land tenure arrangements and/or access rights, usage rights or land ownership?	No	There are no uncertainties regarding land tenure, access rights, usage rights or land ownership. The Project sites are developed for 25 years i.e., the project lifetime and all of them belongs to PP now. Moreover, the project is not located with close proximity of any forest.	Not required
b. For Projects involving land use tenure, are there any uncertainties with regards to land tenure, access rights, usage rights or land ownership?			
>>			
Principle 4.4 - Indigenous people			
Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on	No	There are no indigenous people present within the area of influence nor the project is	Not required

land/territory claimed by indigenous peoples?		located on territory claimed by indigenous people.	
>>			
Principle 5. Corruption			
1. The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	No	The project is renewable energy technology and does not contribute to or reinforce corruption of any kind. Indulgence in corruption is an illegal activity in the host country and the local labor compliance takes into account of the same. PP does not involve and is not complicit in any kind of corruption.	Not required
Principle 6.1 Labour Rights			
1. The Project Developer shall ensure that all employment is in compliance with national labour occupational health and safety laws and with the principles and standards embodied in the ILO fundamental conventions	No	1. The project proponent is committed to the employee's workplace health & safety during all phases of the project. 2. The project respects fundamental right of employee. 3. The Company strives to provide a safe, healthy,	Not Required

<p>2. Workers shall be able to establish and join labour organisations</p> <p>3. Working agreements with all individual workers shall be documented and implemented and include:</p> <ul style="list-style-type: none"> a) Working hours (must not exceed 48 hours per week on a regular basis), AND b) Duties and tasks, AND c) Remuneration (must include provision for payment of overtime), AND d) Modalities on health insurance, AND e) Modalities on termination of the contract with provision for voluntary resignation by employee, AND f) Provision for annual leave of not less than 		<p>clean and ergonomic working environment for its staff. The safety and security of the staff in the workplace is a primary concern of the Company</p> <p>4. PP and their subcontractors complying with all relevant national laws regarding child labor. PP will not employ children in any shape or form for their works.</p>	
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<p>10 days per year, not including sick and casual leave.</p> <p>4. No child labour is allowed (Exceptions for children working on their families' property requires an Expert Stakeholder opinion)</p> <p>5. The Project Developer shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures</p>			
Principle 6.2 Negative Economic Consequences			
<p>1. Does the project cause negative economic consequences during and after project implementation?</p> <p>>></p>	No	The project activity is a renewable Solar power generation project and generates various employment opportunity for the locals throughout its lifetime. Thus,	Not Required

		there is no negative economic consequences during and after project implementation.	
Principle 7.1 Emissions			
Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No	The project reduces Greenhouse Gas (GHG) emissions and fossil fuel usage compared to the baseline scenario.	Not Required
>>			
Principle 7.2 Energy Supply			
Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	No	No. The project activity is a grid connected renewable energy based Solar power generation project. There is no use of Wood or Biomass in the project activity. On the contrary the project generates renewable energy and supplies to the grid. Hence, it's not required to be monitored.	Not Required
>>			
Principle 8.1 Impact on Natural Water Patterns/Flows			
Will the Project affect the natural or pre-existing pattern of watercourses, ground-water	No	The project being a Solar power project thus there is no impact of water resources.	Not Required

and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?		The plant area does not have large rivers and streams, only small gaps flow. In the dry season, there is almost no water, only water in the rainy season.	
>>			
Principle 8.2 Erosion and/or Water Body Instability			
a. Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion?	No	No. The risk of erosion is unlikely by the project.	Not Required
b. Is the Project’s area of influence susceptible to excessive erosion and/or water body instability?			
>>			
Principle 9.1 Landscape Modification and Soil			
Does the Project involve the use of land and soil for production of crops or other products?	No	The project is established at the largely of open land.	Not Required
>>			
Principle 9.2 Vulnerability to Natural Disaster			

Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	No	The project is susceptible to decreased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme conditions.	Not Required
>>			
Principle 9.3 Genetic Resources			
Could the Project be negatively impacted by or involve genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development, or take place in facilities or farms that include GMOs in their processes and production)?	No	The Solar plant does not affect the herbal life.	Not Required
>>			
Principle 9.4 Release of pollutants			
Could the Project potentially result in the release of pollutants to the environment?	No	This means project activity does not potentially results in release of pollutants to the environment Nevertheless, the project takes a precautionary approach regarding	Not Required
>>			

		environmental challenges and is not complicit in practices contrary to the precautionary principle	
Principle 9.5 Hazardous and Non-hazardous Waste			
Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	No	All hazardous and non-hazardous wastes will be disposed as per the local regulations.	Not Required
>>			
Principle 9.6 Pesticides & Fertilisers			
Will the Project involve the application of pesticides and/or fertilisers?	No	Not applicable for Solar power plants	Not Required
>>			
Principle 9.7 Harvesting of Forests			
Will the Project involve the harvesting of forests?	No	No, the project does not involve harvesting of forest. The Project sites are developed for 25 years Moreover, the project is not located with close proximity of any forest.	Not Required
>>			
Principle 9.8 Food			

Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No	No. The project does not modify the quantity or nutritional quality of food available.	Not Required
>>			
Principle 9.9 Animal husbandry			
Will the Project involve animal husbandry?	No	No. Not applicable for solar project.	Not required
>>			
Principle 9.10 High Conservation Value Areas and Critical Habitats			
Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	No	No, the land of the Project is not located in sensitive ecological zones, biodiversity conservation areas, and there are no rare and valuable plant and animal species.	Not Required
>>			
Principle 9.11 Endangered Species			
a. Are there any endangered species identified as potentially being present within the Project boundary (including	No	No. There were no endangered species found in the project boundary.	Not required

those that may route through the area)?		No. The project does not impact other areas where endangered species may be present.	
b. Does the Project potentially impact other areas where endangered species may be present through transboundary affects?			
>>			

APPENDIX 2- CONTACT INFORMATION OF PROJECT PARTICIPANTS

Organization name	Central Eléctrica de Teterane, S.A
Registration number with relevant authority	
Street/P.O. Box	6th Floor,
Building	JAT IV Building,
City	Maputo,
State/Region	267 Avenida Zedequias Manganhela,
Postcode	
Country	Mozambique
Telephone	+258 20 606 530
E-mail	samir.sale@globeleq.com
Website	
Contact person	MR. Mahomed Salé
Title	Director
Salutation	
Last name	
Middle name	
First name	
Department	
Mobile	
Direct tel.	
Personal e-mail	

APPENDIX 4-SUMMARY OF APPROVED DESIGN CHANGES

Please refer to Design Change [Requirements](#) for more information on procedures governing Design Changes

Revision History

Version	Date	Remarks
1.2	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Inclusion criteria table added Gender sensitive requirements added Prior consideration (1 yr rule) and Ongoing Financial Need added Safeguard Principles Assessment as annex and a new section to include applicable safeguards for clarity Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on Stakeholder Consultation information required Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.1	24 August 2017	Updated to include section A.8 on 'gender sensitive' requirements
1.0	10 July 2017	Initial adoption