

Driving Climate Actions

Project Verification Report

V3.1 - 2020

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Project Verification Report

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COVER PAGE					
Project Verification Report Form (PVR)					
	BASIC INFORMATION				
Name of approved GCC Project Verifier / Reference No. (also provide weblink of approved GCC Certificate)	Carbon Check (India) Private Limited. /GCCV004/01 http://globalcarboncouncil.com/wp- content/uploads/2021/10/carbon-check-india-private-limited- ccipl.pdf				
Type of Accreditation	 Individual Track¹ CDM Accreditation 28/03/2019 to 01/06/2024 https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052 ISO 14065 Accreditation UNFCCC (28/06/2021 to 27/06/2024) https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052 				
Approved GCC Scopes and GHG Sectoral scopes for Project Verification	 GCC Scope Green House Gas (GHG# - ACC) Environmental No-harm (E+) Social No-harm (S+) Sustainable Development Goals (SDG+) GHG Sectoral Scope Energy (renewable/non-renewable sources) (CDM TA 				
Validity of GCC approval of Verifier	08/03/2023 to 31/05/2024				
Title, completion date, and Version number of the PSF to which this report applies	SERTAO and SOBRAL I Solar PV Project by GPG NATURGY Version 07 Dated 24/10/2023				
Title of the project activity	SERTAO and SOBRAL I Solar PV Project by GPG NATURGY				
Project submission reference no. (as provided by GCC Program during GSC)	S00612				

¹ Note: GCC Verifier under Individual tack is not eligible to conduct verifications for the GCC project that intends to supply carbon credits (ACCs) for CORSIA requirements.

Eligible GCC Project Type ² as per the Project Standard	Type A:				
(Tick applicable project type)	\square Type A2				
	Sub-T	vpe 1			
		уре 4			
	🗌 Type B – De-re	egistered CDM Pro	jects:		
	Type B1				
	Tvpe ³ B2				
Data of completion of Local	22/01/2017				
stakeholder consultation	22/01/2017				
Date of completion and period of	20/11/2022 - 04/12/	2022			
Global stakeholder consultation.	No comments were received.				
verified. Provide web-link.	https://www.globalcarboncouncil.com/global-stakeholders-				
	consultation-6/				
Name of Entity requesting verification service	NATURGY COMMODITIES TRADING, S.A. ("NCT")				
(can be Project Owners themselves					
or any Entity having authorization of					
Contact details of the	Marta Pla Carrasco				
requesting verification service	Address: AVENIDA SAN LUIS 77, 28033 MADRID, Spain				
(Focal Point assigned for all	Email: greentrading@naturgy.com				
communications)					
Country where project is located	Brazil				
GPS coordinates of the Project	Physical	Latitude	Longitude		
site(s)	address				
	SERTAO I	8°33'00.8"S (-8.5502)	42°17'09.6"W		
	(-42.286)				
		8°17'19.0"S	40800100 4114/		
	SOBKAL I	(-8,2886)	42°22′09.4″W		
		(0.2000)	(-42.3692)		

² Project Types defined in Project Standard and Program Definitions on GCC website.

³ GCC Project Verifier shall conduct Project Verification for all project types except B₂.

Applied methodologies (approved methodologies of GCC or CDM can be used)	ACM0002 "Grid-connected electricity generation from renewable sources", version 21.0 from CDM.		
GHG Sectoral scopes linked to the applied methodologies	Scope 1 - energy industries (renewable / non-renewable sources)		
Project Verification Criteria: Mandatory requirements to be assessed	 ISO 14064-2, ISO 14064-3 GCC Rules and Requirements Applicable Approved Methodology Applicable Legal requirements /rules of host country National Sustainable Development Criteria (if any) Eligibility of the Project Type Start date of the Project activity Meet applicability conditions in the applied methodology Credible Baseline Additionality Emission Reduction calculations Monitoring Plan No GHG Double Counting Local Stakeholder Consultation Process Global Stakeholder Consultation Process United Nations Sustainable Development Goals (Goal No 13- Climate Change) Others (please mention below) 		
Project Verification Criteria: Optional requirements to be assessed	 Environmental Safeguards Standard and do-no-harm criteria. Social Safeguards Standard do-no-harm criteria. United Nations Sustainable Development Goals (in additional to SDG 13) CORSIA requirements 		
Project Verifier's Confirmation: The GCC Project Verifier has verified the GCC project activity and therefore confirms the following:	The GCC Project Verifier Carbon Check (India) Private Limited, certifies the following with respect to the GCC Project Activity "SERTAO and SOBRAL I Solar PV Project by GPG NATURGY". The Project Owner has correctly described the Project Activity in the Project Submission Form (version 07, dated 24/10/2023) including the applicability of the approved methodology [CDM methodology, ACM0002 version 21] and meets the methodology applicability conditions and is expected to achieve the forecasted real measurable and additional GHG emission reductions complies with the monitoring methodology, has appropriately conducted local and global stakeholder consultation processes and has calculated emission reductions estimates correctly and		

	The Project Activity is likely to generate GHG emission reductions amounting to the estimated 568,752 tCO _{2e} , as indicated in the PSF, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable GCC rules, including ISO 14064-2 and ISO 14064-3.
	The Project Activity is not likely to cause any net-harm to the environment and/or society and complies with the Environmental and Social Safeguards Standard, and is likely to achieve the following labels:
	Environmental No-net-harm Label (E+)
	Social No-net-harm Label (S +)
	The Project Activity is likely to contribute to the achievement of United Nations Sustainable Development Goals (SDGs), complies with the Project Sustainability Standard, and contributes to achieving a total of [5] SDGs, with the following ⁴ SDG certification label (SDG ⁺):
	Bronze SDG Label
	Silver SDG Label
	Gold SDG Label
	Platinum SDG Label
	Diamond SDG Label
	The Project Activity complies with all the applicable GCC rules ⁵ and therefore recommends GCC Program to register the Project activity with above mentioned labels.
	The Project Activity complies with all the applicable requirement of the GCC Program and ICAO's requirements on CORSIA Emissions Unit Eligibility Criteria and CORSIA Eligible Emissions Units, as per Clarification No 1., v1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project.
Project Verification Report,	Report No. CCIPL1676/GCC/VAL/SSSPV/20221130
reference number and date of approval	Version 01
	Date: 27/10/2023
Name of the authorised personnel of GCC Project Verifier and his/her signature with date	Virash L. Sil

⁴ SDG Certification labels: Bronze label (1 star): by achieving 2 out of 17 SDGs; Silver label (2 star): by achieving 3 out of 17 SDGs; Gold label (3 star): by achieving 4 out of 17 SDGs; Platinum label (4 star): by achieving 5 out of 17 SDGs; and Diamond label (5 star): by achieving more than 5 out of 17 SDGs.

⁵ "GCC Rules" are defined in Project Definitions and refers to the rules and requirements set out by the GCC program related to GHG emission reductions and its voluntary certification labels and are available on the GCC Program's public website: <u>https://www.globalcarboncouncil.com/resource-centre.html</u>

Vikash Kumar Singh, Compliance Officer
Date:27/10/2023

1. PROJECT VERIFICATION REPORT

Section A. Executive summary

>>

Kosher Climate India Private Limited has appointed the GCC Project Verifier, Carbon Check (India) Private Ltd., to perform an independent project verification of the Project "SERTAO and SOBRAL I Solar PV Project by GPG NATURGY" in Brazil (hereafter referred to as "project activity"). This report summarizes the findings of verification of the project, performed based on GCC rules and requirements as well as criteria given to provide for consistent project operations, monitoring, and reporting. This report contains the findings and resolutions from the project verification and a verification opinion. NATURGY COMMODITIES TRADING, S.A. has developed and owns the two solar photovoltaic power generation projects in PIAUÍ at two different locations with installed capacities of 34.74MWp/30 MW each with total project capacity of 69.48MWp/60 MW respectively in Brazil. The installation of total 108,128 photovoltaic modules in each site has been completed, commissioned and connected to the national Grid of Brazil on 09/09/2017.

Type of Project	Grid connected Solar Energy project	
Technology	Poly-Crystalline Photovoltaic technology	
Connected Grid	Brazilian national grid	
Expected Annual Electricity supplied to Grid	123,000 MWh	
Expected Annual Emission reduction	56,875 tCO ₂ eq	
GCC labels applied	Environmental No-net-harm Label (E+), Social No- net-harm Label (S+), CORSIA requirements (C+) and United Nations Sustainable Development Goals (SDG+)	
Environmental No-net-harm Label (E+) score	+7	
Social No-net-harm Label (S+) score	+7	
Number of United Nations Sustainable Development Goals (SDG+) opted	5	

The purpose of the project verification is to have a thorough and independent assessment of the proposed Project Activity against the applicable GCC rules and requirements, including those specified in the Project Standard, applied methodology/methodological tools and any other requirements, in particular, the project's baseline, monitoring plan and the host country criteria. These are verified to confirm that the project design, as documented, is sound and reasonable and meets the identified criteria. Verification requirement for all GCC projects activity is necessary to provide assurance to stakeholders of the quality of the Project Activity and its intended generation of Approved Carbon Credits (ACCs).

Location

The Project Activity is located in Rod. Pres. Juscelino Kubitschek, João Costa - PI, 64764-000 and PI-141, São João do Piauí - PI, 64760-000, Brazil.

Address and geodetic coordinates of the physical site of the Project Activity							
Name of the project activity	Physical address	Latitude	Longitude				
SERTAO I	Rod. Pres. Juscelino Kubitschek, João Costa - PI, 64764-000, Brazil.	8°33'00.8"S (-8.5502)	42°17'09.6"W (-42.286)				
SOBRAL I	PI-141, São João do Piauí - PI, 64760-000, Brazil.	8°17'19.0"S (-8.2886)	42°22'09.4"W (-42.3692)				

Scope of the GCC Project Verification

The project verification scope is defined as the independent and objective review of the project submission form (PSF /1/). The PSF /1/ is reviewed against the relevant criteria (see above) and decisions by the GCC, including the CDM approved baseline and monitoring methodology /B02/ and CDM Methodological tool 01 /B04/, tool 07/B05/, tool 24/B07/ and tool 27/B06/. The verification team has, based on the recommendations in the GCC Project Standard, Version 3.1 /B01-1/ and Project Verification Standard Version 3.1 /B01-2/ employed a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of ACCs.

The verification is not meant to provide any consulting towards the project (owner)s. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the program design.

While carrying out the verification, CCIPL determines if the PSF complies with the requirements of the applicability conditions of the selected methodology /B02/, guidance issued by the GCC and assess the claims and assumptions made in the PSF /1/ without limitation on the information provided by the project owner.

Verification Process

Strategic risk Analysis and delineation of the GCC Project verification and sampling plan:

CCIPL employed the following GCC Project verification (termed as "Project Verification" as per GCC) process:

- 1. Conflict of interest review at the time of contract review.
- 2. Selection of Audit Team at the time of contract review.
- 3. Kick-off meeting with the client.
- 4. Review of the draft PSF listed on GCC website for public consultation.
- 5. Development of the GCC Project verification plan and sampling plan.
- 6. Desktop review and evaluation of emission reduction calculations.
- 7. Follow-up interaction with the client; and final statement and report development.

The GCC Project verification process has utilized to gain an understanding of the:

- Project's design, GHG emission sources and reductions,
- Baseline determination and additionality,
- GHG monitoring plan,
- Environmental & Social impacts,
- Stakeholder's consultation,
- SD indicators integrated with the project and
- Verify the collection and handling of data, the calculations that lead to the results, and the means for reporting the associated data and results.

Development of the GCC Project verification Plan:

The Audit Team formally documented its GCC Project verification plan as well as determined the datasampling plan. The GCC Project verification plan was developed based on discussion of key elements of the GCC Project verification process during the kick-off meeting and as per the criteria of engagement. The client had the opportunity to comment on key elements of this plan for GCC Project verification. Based on items discussed above and agreed upon with the client in the signed contract, the plan identified the CCIPL audit team members based on following:

• Project level of assurance (which is reasonable as per GCC requirements),

- Materiality threshold and
- Standards of evaluation and reporting for the GCC Project verification.

It also provides an outline of the GCC Project verification process and established project deliverables. This GCC Project verification plan also included a sampling plan, which is designed to evaluate all project elements in areas of high risk of inaccuracy or non-conformance.

The project verification consists of the following four phases:

I. A desk review of the project submission form.

- A review of the data and information.
- Cross checks between information provided in the PSF /01//02/ and information from sources with all necessary means without limitations to the information provided by the project owner.

II. Follow-up interviews with project stakeholders

Interviews with relevant stakeholders in host country with personnel having knowledge with the project development.

 Cross checking between information provided by interviewed personnel with all necessary means without limitations to the information provided by the project owner.

III. Reference to available information relating to projects or technologies similar projects under verification and review based on the approved methodology /B02/ being applied of the appropriateness of formulae and accuracy of calculations.

IV. The resolution of outstanding issues and the issuance of the final verification report and opinion.

The Verification team confirms the contractual relationship signed between the CCIPL and the Project Owner. The team assigned to the GCC Project verification meets the CCIPL's internal procedures including the GCC requirements for the team composition and competence. The GCC Project verification team has conducted a thorough contract review as per GCC and CCIPL's procedures and requirements.

The report is based on the assessment of the PSF /1/ undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews and stakeholder interviews, review of the applicable/applied methodology /B02/ and their underlying formulae and calculations.

This report contains the findings (which need to be resolved by the project owner) from the verification and a verification opinion on the proposed Project Activity will be provided once all the raised findings are successfully resolved by the project owner to confirm the program design in the documents is sound and reasonable and meets the stated requirements and identified criteria.

Conclusion

The review of the PSF, supporting documentation and subsequent follow-up actions (onsite audit and interviews) have provided CCIPL with sufficient evidence to determine the fulfilment of stated criteria. CCIPL is of the opinion that the project activity "SERTAO and SOBRAL I Solar PV Project by GPG NATURGY" as described in the final PSF (Version 07, dated 24/10/2023) /1/ meets all relevant requirements of GCC and has correctly applied the CDM baseline and monitoring methodology 'ACM0002: Grid-connected electricity generation from renewable sources' /B02/.

"The project Activity complies with all the applicable requirement of the GCC Program and ICAO's requirements on CORSIA Emissions Unit Eligibility Criteria and CORSIA Eligible Emissions Units, as per Clarification No 1., v1.3 paragraph 23-25, and the ACCs expected to be issued during the crediting period is likely to be CORSIA eligible and can be used by International Airlines for offsetting their emissions during all phases of CORSIA and therefore requests GCC Steering Committee to append CORSIA Certification label (C+) to this project".

The review of the PSF, supporting documentation and subsequent follow-up actions (onsite audit and interviews) have provided CCIPL with sufficient evidence to determine the fulfilment of the voluntary labels E+, S+ /B01-4/ and SDG+ with gold rating /B01-5/. Therefore, the project is being recommended to GCC Steering Committee for request for registration including the applied labels.

Section B. Project Verification team, technical reviewer and approver

>>

No.	Role		Last name	First name	Affiliation	l	nvolve	ment i	n
		Type of resource			(e.g. name of central or other office of GCC Project Verifier or outsourced entity)	Desk/document review	On-site inspection	Interviews	Project Verification indings
1.	Team Leader/ Technical Expert	ĪR	Mathew	Vijay	CCIPL	Y	Y	Y	Y
2.	Financial Expert	IR	Mathew	Vijay	CCIPL	Y	Y	Y	Y
3.	E+, S+, SDG	IR	Mathew	Vijay	CCIPL	Υ	Υ	Y	Y
4.	Team member	IR	Kishore Raychoudhur y	Rishi	CCIPL	Y	N	N	Y

B.1. Project Verification team

B.2. Technical reviewer and approver of the Project Verification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of GCC Project Verifier or outsourced entity)
1.	Technical reviewer	IR	Chakravarthy	Shivaji	CCIPL
2.	Financial Expert	IR	Chakravarthy	Shivaji	CCIPL
3.	Approver	IR	Singh	Vikash Kumar	CCIPL

Section C. Means of Project Verification

C.1. Desk/document review

>>

The verification was performed primarily as a document review of the initial PSF version 02 dated 16/11/2022 and revised final PSF version 07 dated 24/10/2023 /01/. The verification of information provided

in the PSF was performed using the source of information provided by the project owner. Additionally, the cross checks were performed for information provided in the PSF using information from sources other than the verification sources, the verification team's sectoral or local expertise and, if necessary, independent background investigations.

List of all documents reviewed or referenced during the verification is provided in Appendix-3

C.2. On-site inspection

Duration of on-site inspection: 09/02/2023						
Activity performed on-site	Site location	Date	Team member			
Discussions and review of:	PIAUÍ, Brazil	09/02/2023	Vijay Mathew			
Project Design						
 Project Technology 			Rishi Kishore			
 Project boundary 			Raychoudhury			
 Applicability of CDM methodology 						
 Environmental Management Plan/ EIA 						
 Local stakeholders meeting process 						
• Management structure with Roles and						
Responsibilities						
Project implementation schedule						
• Pre project (existing) scenario to meet						
the energy (heat and electricity) demand						
•Monitoring Plan						
•Socio-economic impacts of the project						
activity						
(SDGs)						
Baseline Scenarios and alternatives						
Project additionality						
Emission reduction calculations						
Assessment of E+ S+ SDG+ and						
CORSIA aspects as per the PSF and						
GCC requirements. Authorization on						
Double Counting from Host Country, the						
legal ownership of the project and GCC						
requirements.						
	Duration of on-siteActivity performed on-siteDiscussions and review of:Project DesignProject TechnologyProject boundaryApplicability of CDM methodologyEnvironmental Management Plan/ EIALocal stakeholders meeting processManagement structure with Roles and ResponsibilitiesProject implementation schedulePre project (existing) scenario to meet the energy (heat and electricity) demand •Monitoring PlanSocio-economic Impacts of the project (SDGs)Baseline Scenarios and alternativesProject additionalityEmission reduction calculationsAssessment of E+, S+, SDG+ and GCC requirements, Authorization on Double Counting from Host Country, the legal ownership of the project and GCC requirements.	Duration of on-site inspection: 09/Activity performed on-siteSite locationDiscussions and review of:Project DesignProject DesignProject TechnologyProject TechnologyProject boundaryApplicability of CDM methodologyEnvironmental Management Plan/ EIALocal stakeholders meeting processManagement structure with Roles andResponsibilitiesProject (existing) scenario to meetPre project (existing) scenario to meetPre project (existing) scenario to meetthe energy (heat and electricity) demandMonitoring PlanSocio-economic Impacts of the projectSDGS)Baseline Scenarios and alternativesProject additionalityEmission reduction calculationsAssessment of E+, S+, SDG+ andCORSIA aspects as per the PSF andGCC requirements, Authorization onDouble Counting from Host Country, thelegal ownership of the project and GCCrequirements.Mathematics	Duration of on-site inspection:09/02/2023Activity performed on-siteSite locationDateDiscussions and review of:PIAUÍ, Brazil09/02/2023• Project Design• Project Technology• Project Technology• Project boundary• Applicability of CDM methodology• Project boundary• Applicability of CDM methodology• Environmental Management Plan/ EIA• Local stakeholders meeting process• Management structure with Roles and Responsibilities• Project implementation schedule• Pre project (existing) scenario to meet the energy (heat and electricity) demand• Monitoring Plan• Socio-economic Impacts of the project activity• Sustainability aspects of the project (SDGs)• Baseline Scenarios and alternatives• Project additionality• Emission reduction calculations• Assessment of E+, S+, SDG+ and CORSIA aspects as per the PSF and GCC requirements, Authorization on Double Counting from Host Country, the legal ownership of the project and GCC requirements.			

C.3. Interviews

No.		Interview		Date	Subject	Team
	Last name	First name	Affiliation		-	member
1.	Andrade	Larissa	Kosher Climate India Pvt. Ltd.	09/02/2023	Project Description, Baseline identification, Project Boundary. project financing,	Vijay Mathew Rishi
2.	Kumar	Narendra	Kosher Climate India Pvt. Ltd.		Calculation, Regulatory requirements, project status, Monitoring procedures & Calibration of meters.	Kishore Raychou dhury
3.	Akoujo	Soncte	GPG		Operation and Maintenance, Data recording, Emergency procedures, etc. Mode of Invitation for stakeholders meeting, Stakeholders meeting, consultation,	
4.	Rosson	Anis	GPG			rs rs n, d tt, G
5.	Drsifu	Loroaceueno	Sozakile dkah		advantages and disadvantages of the project, employment generation, SDG	
6.	Leitos	Wallyson	Sozakile dkah		social net harm, etc.	

C.4. Sampling approach

>>

No sampling approach is used for this project verification process.

C.5. Clarification request (CLs), corrective action request (CARs) and forward action request (FARs) raised

Anness of Desired Mariffeethers for the se				
Areas of Project verification findings	Applicable to			NO. OT
	Floject Types		CAR	FAN
Green House Ga	as (GHG)	1	1	•
Identification and Eligibility of project type	A ₁ , A ₂ , B ₁ , B ₂		CAR 01	
			CAR 06	
General description of project activity	A1, A2, B1, B2	CL 01	CAR 01	
Application and selection of methodologies and	A ₁ , A ₂ , B ₁ , B ₂			
standardized baselines				
 Application of methodologies and 	A ₁ , A ₂ , B ₁ , B ₂	CL 03		
standardized baselines				
- Deviation from methodology and/or	A ₁ , A ₂ , B ₁ , B ₂			
methodological tool				
- Clarification on applicability of methodology,	A ₁ , A ₂ , B ₁ , B ₂			
tool and/or standardized baseline				
 Project boundary, sources and GHGs 	A ₁ , A ₂ , B ₁ , B ₂			
- Baseline scenario	A ₁ , A ₂ , B ₁ , B ₂		CAR 03	
- Demonstration of additionality including the	A ₁ , A ₂ , B ₁ , B ₂	CL 02	CAR 02	
Legal Requirements test				
- Estimation of emission reductions or net	A ₁ , A ₂ , B ₁ , B ₂			
anthropogenic removals				
- Monitoring plan	A ₁ , A ₂ , B ₁ , B ₂		CAR 04	
			CAR 05	

Start date, crediting period and duration	A ₁ , A ₂ , B ₁ , B ₂					
Environmental impacts	A1, A2, B1, B2					
Local stakeholder consultation	A1, A2, B1	CL 05				
Approval & Authorization- Host Country Clearance	A1, A2, B1, B2					
Project Owner- Identification and communication	A1, A2, B1, B2		CAR 09			
Global stakeholder consultation	A1, A2, B1					
Others (please specify)	A1, A2, B1, B2					
VOLUNTARY CERTIFICA	VOLUNTARY CERTIFICATION LABELS					
Environmental Safeguards (E ⁺)	A1, A2, B1	CL 06	CAR 08			
Social Safeguards (S ⁺)	A1, A2, B1	CL 06	CAR 08			
Sustainable development Goals (SDG ⁺)	A1, A2, B1	CL 04	CAR 08			
Authorization on Double Counting from Host Country	A1, A2, B1		CAR 07			
(only for CORSIA)						
CORSIA Eligibility (C ⁺)			CAR 07			
Total		06	09			

Section D. Project Verification findings

D.1. Identification and eligibility of project type

Means of F Verification	Project	Desk Review and Interviews				
Findings		CAR 1 and CAR 05 we Appendix 4 for further of	re raised, and the findings are clo details.	sed. Please refer to		
Conclusion		The GCC Project Verific Owner determines the	cation team reviewed the PSF /1/ a type of proposed GCC project act	and confirms that the Project ivity as follows.		
		Parameters	Project Position	Verified Documents		
		Type of Project	Type A2. These types of projects are prompt-start and had already started their operations as of 5 July 2020. Their start date of operations shall be after 1 January 2016 but before 5 July 2022. The start date of the project activity is 09/09/2017.			
		Sub type	certificates /4/			
		Start date of project activity	09/09/2017 (earliest date of commission)	PSF/1/, Commissioning certificate /4/		
		Start date of Crediting period	From 09/09/2017 to 08/09/2027	PSF/1/, Commissioning certificate /4/		
		Global stakeholder consultation	Global Stakeholder consultation on GCC projects /45/			

The project activity complies with the requirement of §11 of the GCC Project Standard (version 03.1) /B01-1/ and GCC clarification no.01 /B01-6/ and § 25 (b) of GCC Project Verification Standard (version 03.1) /B01-2/

D.2. General description of project activity

Means of	Project	Desk review and Interviews					
Verification							
Findings		CL 01 and CAR 01 were raised, and findings are closed. Please refer to Appendix 4 for further details.					
Conclusion		The description of the project activity contained in the PSF /1/ can be considered					
		transparent, detailed and pro	ovides a clear overview of the proje	ect. Its content was			
		confirmed by means of docu	ment review and interviews to verif	y the accuracy and			
		completeness of the project	description.				
		Parameters	Project Details	Verified documents			
		Name of the Project	SERTAO and SOBRAL I Solar PV Project by GPG NATURGY	PSF/1/			
		Project developer	SERTAO I SOLAR ENERGIA SPE S.A. SOBRAL I SOLAR ENERGIA SPE S.A. NATURGY COMMODITIES TRADING, S.A. ("NCT")	PSF/1/, Commissionin g certificate /4/ and O&M contract/08/.			
		Capacity	apacity 60 MW EPE/5/, /9/ On-si				
		Purpose of the project	The purpose of the project activity is to generate electricity using solar power. the electricity generated is supplied to the Brazilian national grid.	Commissionin g certificate /4/ EPE/5/, PPA /9/ On-site visit /15/			
		Annual Generation	123,000 MWh/year	EPE/5/			
		Emission reduction	5,68,752 tCO ₂ e (for the entire crediting period.)	ER/2/			
		Since solar energy is clean firing and hence no greenhou generation from the project otherwise would have been plants and by the addition of an average annual emission years. The Project Activity by SER ⁻ ENERGIA SPE S.A. and NA the state of PIAUÍ, Brazil. The project involves the insta following coordinates.	energy, project activity does not inv use gases are involved in the project activity replaces the equal amou generated by the operation of grid new generation sources. Thus, proj n reduction of 568,752 tCO ₂ e/year TAO I SOLAR ENERGIA SPE S.A., TURGY COMMODITIES TRADING allation of 108,128 PV modules eac	volve any fossil fuel activity. The power nt of power which d-connected power ject activity helps in for a period of 10 SOBRAL I SOLAR G, S.A. ("NCT") is in h in two sites in the			
		Address and geodetic coo	ordinates of the physical site of th	e Project			

Physical address	Latitude	Longitude	
Rod. Pres. Juscelino Kubitschek, João Costa - PI, 64764-000, Brazil	8°33'00.8"S (-8.5502°)	42°17'09.6"W (-42.286°)	
PI-141, São João do Piauí - PI, 64760-000, Brazil	8°17'19.0"S (-8.2886°)	42°22'09.4"W (-42.3692°)	

The same was confirmed by cross checking with the project GPS co-ordinates using google earth software and during the onsite visit. The further details such as district and province name of the project location are checked during the physical on-site verification /15/. The GCC project verification team has also cross checked the solar photo voltaic project activity implementation status with the commissioning certificate /4/ of the project activity and found appropriate.

Parameters	Project Details	Verified documents	
Type of Project	Greenfield solar power project	Commissioning	
Technology	Poly Crystalline Solar panels	certificate /4/ EPE	
PV Modules	Canadian Solar	document/5/, PPA /9/	
Total Project	DC Capacity- 69.48MWp	EPC contract/7/, O&M	
Capacity	AC Capacity- 60 MW	contract /8/.	
Lifetime of the project	25 Years	Manufacture specification/10/	
Project start date	09/09/2017 (earliest commissioning date)	Commissioning certificate/4/	

The installation of total 108,128 PV modules each in the two sites has been completed, commissioned and connected to the national Grid of Brazil through the erected distribution and transmission lines. The same is confirmed from the On-site visit/15/.

The investment decisions of the project activity were made within a year time. This indicates that all the activities included within the project are located at distinct areas and can apply requirements (such as baseline, additionality, monitoring).

The project activity will be collective establishment of baseline, emission reductions calculations, additionality demonstration (including investment and common practice analysis), project monitoring plan and assessment of certification labels have been carried out which is found to be in line with GCC Clarification no 1.

The baseline scenario is that the electricity delivered to the grid by both the project activity would be generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid. The same complies with the applied methodology /B02/. The project is expected to generate and feed GHG free electricity to the connected national electricity grid of Brazil.

As stated in the PSF /1/, the project activity also voluntarily contributes to Environmental No-net-harm Label (E+), Social No net-harm Label (S+) and United Nations Sustainable Development Goals (SDG+).

GCC labels applied

Environmental No-net-harm Label (E+),

	Social No-net-harm Label (S+),				
	CORSIA requirements (C+) and United				
	Nations Sustainable Development				
Environmentel No not herm Lebel	Goals (SDG+)				
	+7				
Social No-net-harm Label (S+) score	+7				
Number of United Nations Sustainable	5				
Development Goals (SDG+) opted	0				
The project owner has described the G	GHG emission-reduction activity, including				
schematics, specifications and a descr	ription of how the project reduces GHG				
emissions. This is as per §36 of GCC	Project Standard Version 03.1 and cross				
checked with PSF /1/.					
The Draiget Activity is a valuation option	by the preject currence confirmed by the				
The Project Activity is a voluntary action	/1/ and an aita visit interviewa/15/				
venification team upon review of the PSF	/ 1/ and on-site visit interviews/15/.				
In accordance with \$44 of GCC Proje	ect Standard (version 03.1) /B01-1/ the				
verification team has assessed the geo	graphical boundary of the Project Activity.				
within which it will be implemented, and o	within which it will be implemented, and confirms that geographical boundary of the				
Project Activity	Project Activity				
comprises the following boundaries.	comprises the following boundaries.				
The solar power plant itself					
The point of connection to Brazili	an national grid for sale of electricity.				
This was shadled and confirmed by row	ioning the DCE (1) on site visit interviews				
with representatives of project owner /15/	/				
with representatives of project owner./ 13/					
As per the PSF /1/, start date of the Proje	ect activity 09/09/2017 (Earliest start date of				
commercial operation of the Project)	/4/. The same is in accordance with				
requirements of §38 of GCC Project Stan	ndard (version 03.1) /B01-1/.				
A crediting period is a fixed crediting peri	od for the Project Activity, from 09/09/2017				
to 08/09/2027 i.e., of 10 years. This is cr	ross checked by PSF /1/ and conforms the				
requirement of \$39 and \$40 of GCC Proje	ect Standard Version 03.1 /B01-1/.				
CCIPL confirms that the description of the	he proposed Project Activity in the PSF is				
accurate and complete and it provides a	n understanding of the Project Activity				
	in and or or and in the project Activity.				

D.3. Application and selection of methodologies and standardized baselines

D.3.1 Application of methodology and standardized baselines

Means of Project Verification	Desk review and Interviews
Findings	CL 03 was raised, and finding is closed. Please refer to Appendix 4 for further details.
Conclusion	The CDM methodology applied is ACM0002, version 21.0 /B02/. It is applicable to greenfield renewable energy power generation using solar PVs. The applicability of the methodology could be confirmed by means of interviews with the Project owner representatives, physical site visit and document review. The applied methodology is correctly quoted and is identical to the version available on the UNFCCC website. The applied version of the baseline and monitoring

methodology /B02/ is va consultation. All applica table:	alid at the time ability criteria i	of submission o n the methodol	f the PSF for glo ogy are assesse	bal stakeholder ed in the below
Applicability criteria of the methodology (ACM0002, Version 21.0)	Justificatio n in the PSF by PO	GCC Project \	/erification body	assessment
This methodology is applicable to grid- connected renewable power generation project activities that: (a) install Greenfield power plant; (b) involve a capacity addition to (an) existing plant(s); (c) involve a retrofit of (an) existing plant(s)/unit(s); (d) involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) involve a replacement of (an)	The project activity is a newly installed green field solar energy- based electricity generation project connected to the national grid. Therefore, it confirms to the said criteria	Parameters Type of project activity Category Project capacity (AC) Hence the me proposed proje	Project Specification Greenfield solar project Renewable energy 60 MW	Verified document contract signed by the technology provider /7/, power purchase agreement signed /9/, and the commission ing certificates /4/.
existing plant(s)/unit(s) 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 photovoltaic1 or wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar	The project activity is the installation of a new grid connected renewable solar power project and does not involve the integration of a Battery Energy Storage System (BESS). This condition is not applicable for the project	The proposed solar power pr the integration verification tea the onsite visi not applicable activity.	l activity is a g roject and it doe n of a BESS. (am confirmed the t /15/. Hence th e to the prop	rid connected s not involves CCPIL project e same during is condition is posed project

photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); (d) Integrate a BESS together	activity.	
implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s).		
plant(s)/unit(s). The methodology is applicable under the following conditions: (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; (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	The proposed project activity is the installation of solar power plant/unit without BESS integration. Therefore, the said criteria are not applicable.	The proposed activity is the grid connected solar power project without the integration of a BESS. So, the criterion is not applicable for the subject project. CCPIL project verification team confirmed the same during the onsite visit /15/.
retront, or rehabilitation of the plant/unit has been undertaken between		

the start of this	
minimum historical	
reference period and	
reference period and	
the implementation	
of the project	
activity;	
(c) In case of	
Greenfield project	
under paragraph 5	
(a) above, 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):	
(d) The BESS	
(u) The DLSS	
should be charged	
with electricity	
generated from the	
associated	
renewable energy	
power plant(s). Only	
during exigencies 2	
may the BESS he	
hav the DLOG 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 below.	
The charging using	
the grid or using	
fossil fuel electricity	
generator should not	
amount to more than	
2 per cent of the	
by the president	
by the project	
renewable energy	
plant during a	
monitoring period.	
During the time	
periods (e.g.	

week(s), months(s) when the BESS consumes more than 2 percent of the electricity for charging the project participant shall not be entitled to issuance of the concerned periods of the monitoring period. In case of hydro power plants, one of the following conditions shall activity is apply: (a) The project activity is implemented intereservoirs, with no charge in existing single or multiple reservoirs increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is increased and the power period; and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is increased and the power project calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is increased and the power project activity is increased and the power project activity is increased and the power project activity is on the said the reservoirs; or unultiple reservoirs and the project activity is man 4 W/m2; or (d) The project activity is where the power density for			
when the BESS more than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the concerned periods of the monitoring period. In case of hydro power plans, nor dr power parts, nor dr power project. The proposed activity is not a hydro project c2CPL project activity is not a hydro the following conditions shall apply: (a) The project activity is of a solution existing single or multiple reservoirs, where the volume of the reservoirs; or density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is inplemented in existing single or multiple reservoirs, where the volume of the reservoirs; or dusting single or multiple reservoirs, where the volume of the propect activity is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project activity.	week(s), months(s))		
consumes more than 2 per cent of the electricity for charging, the project participant shall not be entitled to be entitled ernission reductions for the concerned periods of the monitoring period. The proposed project activity is not a hydro propect activity is not a hydro propect activity is not a hydro propect activity is a contribution is not applicable the following conditions (a) The project activity The proposed project activity is not a hydro project. (b) The project activity for a solar activity is implemented in case of hydro project. (c) The project activity is in plant/unit, multiple reservoirs, where the volume of any of the reservoirs; Therefore, applicable (b) The project activity is increased and the power density, calculated using equation (7), is greater than 4 W/m2.or (d) The project activity add the power density, calculated using equation (7), is greater than 4 W/m2.or (d) The project activity add the power density, calculated using equation (7), is greater than 4 W/m2.or The project activity is an integrated hydro power project	when the BESS		
Ithan 2 per cent of the charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period. The proposed project activity is not a hydro proposed project activity is not a solar the following conditions shall apply:	consumes more		
electricity for participant shall not be entitled to issuance of the concerned periods of the monitoring period. In case of hydro power plants, one of the following conditions shall activity is apply: (a) The project activity is apply: (a) The project activity is activity is and the power density, calculated using equation (7), is agreater than 4 W/m2; or (d) The project activity is a and the power density calculated using equation (7), is agreater than 4 W/m2; or activity is an an integrated hydro power project involving multiple reservoirs, where the power density for	than 2 per cent of the		
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period. The proposed project activity is not a hydro prower plants, one of proposed the following project. The proposed activity is a divity a divity	of the monitoring		
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apply: (a) The project activity is implemented in existing single or multiple reservoirs; with no change in the volume of any of (b) The project activity is implemented in existing single or multiple reservoirs; where the volume of the reservoirs; or multiple reservoirs; where the volume of the reservoirs; or multiple reservoirs; or multiple reservoirs; or multiple reservoirs; applicable	conditions shall	activity is	project. CCPIL project verification team
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 (c) the project activity is a solar power density. (b) The project activity is an integrated hydro drama activity for drama activity is an integrated hydro drama activity for drama acti	(a) The project	installation	/15/. Hence this condition is not applicable to
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with no change in the said the volume of any of the reservoirs; or (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), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	multiple reservoirs	Therefore	
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the reservoirs; or (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), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	the volume of any of	criteria are	
 (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), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for the project activity is an integrated hydro power project involving multiple 	the reservoire: or	not	
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implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for		applicable	
<pre>implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for</pre>	implemented in		
existing single of multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	avioting single at		
<pre>Initialiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for</pre>	existing single of		
where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	multiple reservoirs,		
The reservor(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	where the volume of		
increased and the power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	the reservoir(s) is		
power density, calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	increased and the		
calculated using equation (7), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	power density,		
equation (/), is greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	calculated using		
greater than 4 W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	equation (7), is		
W/m2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	greater than 4		
(c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	VV/m2; or		
activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	(c) The project		
new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	activity results in		
multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	new single or		
and the power density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	multiple reservoirs		
density, calculated using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	and the power		
using equation (7), is greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	density, calculated		
greater than 4 W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	using equation (7), is		
W/m2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	greater than 4		
(d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for	W/m2; or		
activity is an integrated hydro power project involving multiple reservoirs, where the power density for	(d) The project		
integrated hydro power project involving multiple reservoirs, where the power density for	activity is an		
power project involving multiple reservoirs, where the power density for	integrated hydro		
involving multiple reservoirs, where the power density for	power project		
reservoirs, where the power density for	involvina multiple		
the power density for	reservoirs where		
	the power density for		

any of the		
reservoirs,		
calculated using		
equation (7), is lower		
than or equal to 4		
W/m2, all of the		
following conditions		
shall apply:		
(i) The power		
density calculated		
using the total		
installed capacity of		
the integrated		
project, as per		
equation (8), is		
greater than 4		
VV/m2;		
(ii) Water flow		
between reservoirs		
is not used by any		
other hydropower		
unit which is not a		
part of the project		
activity.		
(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 bydro		
power project		
In the case of	The	The proposed project activity is not a bydro
integrated bydro	nroposed	nower project
nicegrated light	proposed	The proposed activity is a Croopfield grid
project participanta	project activity ic	connected solar newer project COP
project participants	activity IS	project varification team confirmed the same
Sildli.	uite	during the applies visit (45). Hence this
(a) Demonstrate that		ouning the onsite visit /15/. Hence this
water now from	oi a solar	condition is not applicable to the proposed
upstream power	power plant/unit	project activity.
plants/units spill	plant/unit.	
directly to the	i neretore,	
aownstream	the said	
reservoir and that	criterion is	
collectively	not	
constitute to the	applicable	
generation capacity		
ot the integrated		
hydro power project;		
or		
(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 take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity. The methodology is	(a) The			
not applicable to: (a) Project activities that involve	project activity is the	Parameters	Project Status	Verified document
switching from fossil fuels to renewable energy sources at the site of the project	installation of a new solar power plant/unit.	Any fossil fuel switching activity? Biomass fired	Not applicable Not	Confirmed from Contract signed by
case the baseline may be the continued use of fossil fuels at the site. (b) Biomass fired power plants/ units.	vvnich does not involve switching of grid- connected power plant.	involved in the project activity?	αρριισαοισ	Power project technology provider /7/, EPE document /5/, and the commission

	-			-
	(b) The project activity i the installation of a new solar powe plant and not Biomass fired powe plant. Therefore, the said criteria ard not applicable.	e CCPIL project ve the same during t this condition is proposed project a er	erification tea he onsite vis not applic activity.	ing certificates /4/. am confirmed it /15/. Hence cable to the
In the case of retrofits, rehabilitations, or	The project activity in the	s Parameters	Project Status	Verified document
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"	installation of a new solar powe plant/unit that doe not involve retrofits, rehabilitations, replaceme nts, cc capacity additions. Therefore the said criterion i not applicable	Any Capacity addition? Any Retrofits? Any Retrofits? Any Rehabilitation? Any replacement or CCPIL project ve the same during t this condition is proposed project a	Not applicable Not applicable Not applicable Not applicable	Confirmed from Contract signed by the solar power project technology provider /7/, EPE document /5/, and the commission ing certificates /4/.
Applicability criteria of Version 7.0	the tool 7,	Justification in the	e GCC Verificatio	Project on body
The tool lists the applicability criteria: (a) This tool may be estimate the OM, BM a	following applied to and/or CM	The project activity is a greenfield sola power generation plant that supplies electricity to the grid	assessme The pro r involved construction s operation	opent oject activity the on and of 60 MW wer plant in
when calculating emissions for a proje that substitutes grid	baseline ect activity electricity	Hence, the "Tool 07 tool to calculate the emission factor for an	: Brazil. T e thus gene n sold to	he electricity rated is being b Brazilian

that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid (e.g. demand-side energy efficiency projects).	electricity system version 7.0" is applicable and used to calculate the OM, BM and CM.	national grid. In the absence of the project activity, the same amount of electricity (grid electricity) would be generated in the Brazilian national grid. Therefore, combined margin calculation applies to the Brazilian national grid.
Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off-grid power plants. In the latter case, the conditions specified in "Appendix 2: Procedures related to off-grid power generation" should be met. Namely, the total capacity of off- grid power plants (in MW) should be at least 10 per cent of the total capacity of grid power plants in the electricity system; or the total electricity generation by off-grid power plants (in MWh) should be at least 10 per cent of the total electricity generation by grid power plants in the electricity system; and that factors which negatively affect the reliability and stability of the grid are primarily due to constraints in generation and not to other aspects such as transmission capacity.	Since the project activity is grid connected solar power project this condition is applicable. Combined margin grid emission factor has been calculated as per the CO ₂ emission factor data base published by the Brazilian national grid, which is approved by its Designated National Authority (DNA) "Ministry of Science and Technology "CO ₂ emission factors for electricity generation in the National Interconnected System of Brazil - Base Year 2021 ⁶ has been used for emission factor.	Project owner has calculated the emission factor applying this applicability condition. This is accepted by the project verification team.
(c) In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.	in Brazil, a non- Annex I country. Therefore, this criterion is not applicable for the project activity	ne electricity generated from the GCC project will be sold (100%) to Brazilian National grid. Since the project electricity system is in Brazil which is not an Annex I country (Date of ratification of Kyoto protocol by Brazil = 23/08/2002), the project verification team has accepted the application of the tool

⁶ https://antigo.mctic.gov.br/mctic/opencms/ciencia/SEPED/clima/textogeral/emissao_despacho.html

		to calculate the grid emission factor.
(d) Under this tool, the value applied to the CO2 emission factor of biofuels is zero.	The project activity is a grid connected wind power project and therefore, this criterion is not applicable for the project activity	The project activity is a grid connected wind power project. There is no biofuels related activity.
Applicability criteria of the tool 1, Version 7.0	Justification in the PSF	DOE assessment
The use of the "Tool for the demonstration and assessment of additionality" is not mandatory for project owners when proposing new methodologies. Project owners may propose alternative methods to demonstrate additionality for consideration by the Executive Board. They may also submit revisions to approved methodologies using the additionality tool.	Since the applied methodology is not a new methodology, the project owner has applied this tool for the demonstration additionality in compliance with the tool. Refer to section B.5 of the PSF for the detailed applicability of this tool and additionality assessment. Hence this tool is applicable	The PO has not proposed any new methodology. PO has applied tool 1 version 7 for the demonstration of additionality. The same is detailed in section B.5 of the PSF. Hence the tool is applicable.
Once the additionally tool is included in an approved methodology, its application by project owners using this methodology is mandatory.	In line with the methodology requirement Project developer has applied this tool for the demonstration of additionality assessment. Hence this tool is applicable	Project owner has applied the Tool for the demonstration and assessment of additionality, version 7, which is in line with the methodology ACM0002 Grid- connected electricity generation from renewable sources, version 21.
Applicability criteria of the tool 24 Version 3.1	Justification in the PSF	DOE assessment
This methodological tool is applicable to project activities that apply the methodological tool "Tool for the demonstration and assessment of additionality", the methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality", or baseline and monitoring methodologies that use the common practice test	Project activity applies "Tool for the demonstration and assessment of additionality". Hence this tool is applicable.	The applicability criterion is met as the project activity applies the methodological tool "Tool for the demonstration and assessment of additionality."

for the demonstration of additionality.		
In case the applied approved baseline and monitoring methodology defines approaches for the conduction of the common practice test that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.	Applied methodology ACM0002 version 21.0 doesn't specify any approach for the demonstration of common practice analysis. As per the methodology the additionality including common practice analysis has been demonstrated as per the Tool 01: Tool for the demonstration and assessment of additionality" version 7.0.0 and Tool 24: Common Practice Analysis version 3.1. Hence Justified.	The applied methodology is ACM0002, Version 21. It doesn't define approaches for the conduction of the common practice test that are different from those described in this methodological tool 24 Common Practice Analysis version 3.1.
		DOF
Applicability criteria of the tool 27, Version 11	Justification in the PSF	DOE assessment
This methodological tool is applicable to project activities that apply the methodological tool "Tool for the demonstration and assessment of additionality", the methodological tool "Combined tool to identify the baseline scenario and demonstrate additionality", the guidelines "Non-binding best practice examples to demonstrate additionality for SSC project activities", or baseline and monitoring methodologies that use the investment analysis for the demonstration of additionality and/or the identification of the baseline scenario.	The Project activity applies "Tool for the demonstration and assessment of additionality". Hence this tool is applicable.	The applicability criterion is met as the project activity applies the methodological tool "Tool for the demonstration and assessment of additionality."
In case the applied approved baseline and monitoring methodology contains requirements for the investment analysis that are different from those described in this methodological tool, the requirements contained in the methodology shall prevail.	Applied methodology ACM0002 version 21.0 doesn't specify any approach for the demonstration of Investment analysis. As per the methodology the additionality including investment analysis has been	The applied methodology is ACM0002, Version 21. It doesn't contain requirements for the investment analysis that are different from those described in this methodological tool 27 Investment Analysis version 11.0.

	demonstrated as per	
	the Tool 01: Tool for	
	the demonstration	
	and assessment of	
	additionality" version	
	7.0.0 and Tool 27:	
	Investment Analysis	
	version 12.0.	
	Hence Justified.	

D.3.2 Clarification on applicability of methodology, tool and/or standardized baseline

Means of Pro	oject	Desk Review, Interview
Findings		-
Conclusion		NA

D.3.3 Project boundary, sources and GHGs

Means of Project Verification	Desk Review, Interview
Findings	No findings in this section.
Conclusion	According to the approved baseline and monitoring methodology "ACM0002" of "Grid connected renewable electricity generation", version 21 /B02/, the project boundary is "the spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the CDM project power plant is connected to". The physical boundary of the project activity identified by the project owner has been cross verified by site visit observation /15/, commissioning report for the power plant /4/ and power purchase agreement /9/. In section B.3 of the PSF /01/, project boundary has been adequately stated in figure 4 and table. Hence, the project boundary includes the solar power plant and the other power plants which connected to the related electricity system and the Brazilian national grid.

D.3.4 Baseline scenario

Means of Verification	Project	Desk Review, Interv	view	
Findings		CAR 03 was raised details.	, and finding is cl	osed. Please refer to Appendix 4 for further
Conclusion		Methodology baseline	requirement	GCC Project Verifier Opinion

According to the approved baseline methodology ACM0002 /B-02/, "The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid."	Project activity involves generation of electricity using solar power plant and selling it to Brazilian National grid as confirmed through the power purchase agreement /9/ and commissioning report /4/. In the absence of this project activity, same amount of electricity would have been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid. The same was cross checked and confirmed by latest available emission factor of the Brazilian national grid approved by its Designated National Authority (DNA) "Ministry of Science and Technology 2021/16/.
The relevant national and/or sectoral policies, regulations and circumstances are taken into account during the determination of baseline scenario.	Project Owner has considered all the applicable national and sectoral level policies in demonstrating the regulatory compliance of the project and baseline scenario.
	 National/sectoral policies & regulations: Law n^o 9.427,1996: The National Electric Energy Agency (ANEEL)/33/ Law n^o 9.648,1998: The National Electric System Operator (ONS)/34/ Law n^o 10.848,2004: Provides for the commercialization of electricity/35/ Decree n^o 6.353, 2008: Regulates the contracting of reserve energy through auctions/36/
	 According to all the referred policies and regulations the baseline scenario is in compliance with all applicable legal and regulatory requirements. Also, There are no policies implemented in the host country since adaptation of the Kyoto Protocol (11/12/1997) which give comparative advantage to the renewable energy project activity, and; there are no policies in the host country which mandates to implement a particular technology for the power generation purpose.
	Hence there is no impact of the E+ and E- policies while demonstrating the baseline scenario of this project activity
The baseline scenario has been at electricity delivered to the grid by t generated by the operation of grid- new generation sources, as reflect	dequately stated as: The baseline scenario is he project activity would have otherwise been connected power plants and by the addition of ed in the combined margin (CM) calculations

 described in "TOOL07: Tool to calculate the emission factor for an electricity system". The following ex ante parameters and assumptions were used to estimate baseline emissions of the project activity. Combined margin CO₂ emission factor for the project electricity system in year y (EF_{grid,CM,y}) – The value has been calculated and published by Department of Climate Change - Ministry of Natural Resources and Environment, 2020. The value is calculated as per the TOOL 07: "Tool to calculate the emission factor for an electricity system" (Version 07.0). This was found in accordance with the methodology. CCPIL project verification team was able to verify all the documented evidence listed above during the GCC Project Verification process and can confirm that: All the assumptions and data used by the project owners are listed in the PSF, including their references and sources. All documentation used /4/ /5/ /9/ /16/ /20/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF. Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /1/; The approved baseline methodology ACM0002, version 21, has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GCC project activity. 	
 The following ex ante parameters and assumptions were used to estimate baseline emissions of the project activity. Combined margin CO₂ emission factor for the project electricity system in year y (EF_{grid,CMy}) – The value has been calculated and published by Department of Climate Change - Ministry of Natural Resources and Environment, 2020. The value is calculated as per the TOOL 07: "Tool to calculate the emission factor for an electricity system" (Version 07.0). This was found in accordance with the methodology. CCPIL project verification team was able to verify all the documented evidence listed above during the GCC Project Verification process and can confirm that: All the assumptions and data used by the project owners are listed in the PSF, including their references and sources. All documentation used /4/ /5/ /9/ /16/ /20/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF. Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /1/; The approved baseline methodology ACM0002, version 21, has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GCC project activity. 	described in "TOOL07: Tool to calculate the emission factor for an electricity system".
 Combined margin CO₂ emission factor for the project electricity system in year y (EF_{grid,CM,y}) – The value has been calculated and published by Department of Climate Change - Ministry of Natural Resources and Environment, 2020. The value is calculated as per the TOOL 07: "Tool to calculate the emission factor for an electricity system" (Version 07.0). This was found in accordance with the methodology. CCPIL project verification team was able to verify all the documented evidence listed above during the GCC Project Verification process and can confirm that: All the assumptions and data used by the project owners are listed in the PSF, including their references and sources. All documentation used /4/ /5/ /9/ /16/ /20/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF. Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /1/; The approved baseline methodology ACM0002, version 21, has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GCC project activity. 	The following ex ante parameters and assumptions were used to estimate baseline emissions of the project activity.
 CCPIL project verification team was able to verify all the documented evidence listed above during the GCC Project Verification process and can confirm that: All the assumptions and data used by the project owners are listed in the PSF, including their references and sources. All documentation used /4/ /5/ /9/ /16/ /20/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF. Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /1/; The approved baseline methodology ACM0002, version 21, has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GCC project activity. 	Combined margin CO_2 emission factor for the project electricity system in year y $(EF_{grid,CM,y})$ – The value has been calculated and published by Department of Climate Change - Ministry of Natural Resources and Environment, 2020. The value is calculated as per the TOOL 07: "Tool to calculate the emission factor for an electricity system" (Version 07.0). This was found in accordance with the methodology.
	 CCPIL project verification team was able to verify all the documented evidence listed above during the GCC Project Verification process and can confirm that: All the assumptions and data used by the project owners are listed in the PSF, including their references and sources. All documentation used /4/ /5/ /9/ /16/ /20/ are relevant for establishing the baseline scenario and correctly quoted and interpreted in the PSF. Relevant national and/or sectoral policies and circumstances are considered and listed in the PSF /1/; The approved baseline methodology ACM0002, version 21, has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed GCC project activity.

D.3.5 Demonstration of additionality

Means of Verification	Project	Desk Review, Interview	
Findings		CL 02 and CAR 02 were raised, and finding is closed. Please refer to Appendix 4 for further details.	
Conclusion		Project owner has described the Demonstration of additionality according to the GCC Project Standard Version 03.1. In section B.5 of the PSF, two components are applied for the demonstration of additionality.	
		 (i) Legal Requirement Test: The project activity is a Type A project and requires undergoing a Legal Requirement Test. The following laws are considered. 	
		 Law no. 9.427,1996: The National Electric Energy Agency (ANEEL)/33/; Law no. 9.648,1998: The National Electric System Operator (ONS)/34/; Law no. 10.848,2004: Provides for the commercialization of electricity/35/; Decree nº 6.353, 2008: Regulates the contracting of reserve energy through auctions/36/ Law no. 9.074,1995: The Brazilian Electricity Act, does not influence the choice of fuel and technology used for power generation. /37/ 	
		Hence, power generation using renewable energy is not a legal or mandatory requirement.	
		However, the projects as in the project activity are not mandated by law or regulations and are entirely a voluntary action. The project complies with paragraph 46 of GCC Project Standard V3.1.	

(ii) Additionality Test: To cover this requirement from the GCC Project Standard 3.1, section 6.4.8, paragraph 45 and as per the applied methodology ACM0002 Version 21.0, additionality of the following project activity is demonstrated and assessed by the latest version of Tool 01: Tool for the demonstration and assessment of additionality" Version 7.0 /B-04/. The project owner has adopted the stepwise approach for demonstrating and assessing the additionality of the project activity as follows:
Step 1: Identification of alternatives to the project activity consistent with current laws and regulations
Sub-step 1a: Define alternatives to the project activity: Alternative 1: The proposed project activity undertaken without being registered as a GCC project activity. Alternative 2: No project activity is undertaken.
The first alternative, which is the implementation of the project without carbon revenue, is not financially attractive as discussed in the investment analysis section below. The second alternative (Scenario 2) is the baseline scenario and implementation of the proposed project as a GCC project activity would be additional to this scenario.
No project activity is undertaken and continuation of current scenario. In this scenario, due to increasing electricity demand new power plants should be constructed which includes mainly thermal power plants (baseline scenario). Implementation of the project is additional to the baseline scenario which is alternative 2 above and therefore reduces the emissions.
Outcome of Step 1a Continuation of the current situation is not considered as a realistic alternative due to increasing electricity demand therefore new power plants should be constructed which includes mainly thermal power plants. Implementation of the project is additional to the baseline scenario which is an alternative 2 above and therefore reduces the emissions.
Sub-step 1b: Consistency with mandatory laws and regulations:
There are no laws or regulations in Brazil issued by The Brazilian federal government, that restrict implementation of solar power project. Further, no law or regulation issued by The Brazilian federal government, which mandates project owner to invest in solar power project.
The National/sectoral policies & regulations are:
 Law nº 9.427,1996: The National Electric Energy Agency (ANEEL)/33/ Law nº 9.648,1998: The National Electric System Operator (ONS)/34/ Law nº 10.848,2004: The legal framework for the commercialization of electric energy. /35/
• Decree nº 6.353, 2008: Regulates the contracting of reserve energy through auctions/36/
The resultant alternatives to the project as outlined in Step 1a are in compliance with the applicable laws and regulations.
Outcome of Step 1b

Mandatory legislation and regulations for each alternative are considered in sub-step 1b. Based on the above analysis, the proposed project activity is not the only alternative amongst the project owners that is in compliance with mandatory regulations. Therefore, the proposed GCC project activity is considered as additional.

Step 2: Investment analysis

In this section it is demonstrated that the project activity is not financially feasible without the revenue from the sale of ACCs. This is demonstrated in the following sections as per TOOL 27: "Investment analysis" (Version 12.0). No public funding or ODA are associated with the implementation of this GCC project activity.

Sub-step 2a: Determine appropriate analysis method.

The project owner has chosen to apply investment analysis to demonstrate the additionality of the project activity using the benchmark analysis method. Project owner has identified post tax equity IRR as the most suitable financial indicator. The project cannot apply simple cost analysis since the project brings revenue from the sale of electricity; also, investment comparison analysis cannot be applied as the alternative to the project activity is the electricity generated by new and existing grid connected power plants.

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

Post tax equity IRR has been chosen as the financial indicator for the demonstration of financial unviability for the proposed project activity. Since, the PO is demonstrating financial unattractiveness of the project and the project cost involves both equity and debt, post-tax equity IRR is considered to be the appropriate option to indicate financial unattractiveness; and the same is accepted by the verification team.

As per para 15 of Investment analysis/B06/, "The applied benchmark shall be appropriate to the type of IRR calculated. Local commercial lending rates or WACC are appropriate benchmarks for a project IRR. Required/expected returns on equity are appropriate benchmarks for an equity IRR. Benchmarks supplied by relevant national authorities are also appropriate. The DOE shall validate that the benchmarks used are applicable to the project activity and the type of IRR calculation presented."

Further para 16 of the tool 27 states that "In situations where an investment analysis is carried out in nominal terms and the available IRR benchmarks are in real terms, project owners shall convert the real term values of benchmarks to nominal values by adding the inflation rate. The inflation rate shall be obtained from the inflation forecast of the central bank of the host country for the duration of the crediting period. If this information is not available, the target inflation rate of the central bank shall be used. If this information is also not available, then 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". The equity IRR calculated is nominal equity IRR. Accordingly, Project owner converted the default benchmark which is in real terms into nominal terms by using the following equation.

Nominal Benchmark = {(1+Real Benchmark) x (1+Inflation rate)}-1

The GCC Project Verification team referred to the book 'Corporate Finance: Theory and Practice', 2nd edition, by 'Aswath Damodaran' /17/. In page 320 of the book, the same equation is mentioned for converting real into nominal values. Hence the GCC Project Verification team considers the above equation as appropriate for converting real benchmark into nominal benchmark.

Parameters	Project's Specifics	GCC Project Verifier opinion
Investment	10/08/2015	EPE Document (Empresa de Pesquisa
decision date		Energética) /07/
Type of	Post tax equity	As per the para 15 of Tool 27: Investment
Benchmark	IRR/02/	analysis, version 12.0,
		'Required/expected returns on equity are
		appropriate benchmarks for an equity IRR' /B06/
Default	10.91 % is default	Project owner has chosen the default for
Benchmark	for Brazil in	Brazil as per Appendix of EB 116, Annex
value	Appendix Tool 27:	2 to demonstrate additionality, which is
	Investment	the latest available during the time global
	analysis.	stakeholder consultation. Hence,
Leffe Concerte	0.00 0/	accepted the same.
Inflation rate	3.98 % Sourced	The value has sourced from the Banco
	Do Brazil /21/	obtained from the inflation forecast of the
		central bank of the host country. Hence
		the same found appropriate and in line
		with tool 27.
Benchmark	15.32%	Project owner has chosen the default for
value		Brazil as per Appendix of EB 116. Annex
		2 to demonstrate additionality, which is
		the latest available during the time global
		stakeholder consultation. Project owner
		has sourced the inflation forecast for
		Brazil from I Banco Central Do Brazil
		available at the time of investment
		decision /21/. CCIPL team verified all the
		above said details and documents; and
		confirmed that the benchmark identified
		to compare the financial attractiveness of
		the project activity is appropriate.

The assessment team has verified all the above said documents and confirmed that the benchmark identified to compare the financial attractiveness of the project activity is appropriate.

Chronology:

SI.	Activity	Date of Activity
no		
1.	EPE Document (Empresa de Pesquisa Energética)	10/08/2015
	(Investment decision date) /5/	
2.	Date of Auction /46/	28/08/2015
3.	Signing of Power Purchase Agreement /9/	27/04/2016
4.	Signing of EPC Contract /7/	19/12/2016
5.	Project Commissioning /4/	09/09/2017

Sub-step 2c: Calculation and comparison of financial indicators

For calculation of financial indicator, all relevant costs and revenues were found to be included in the IRR sheet provided by the PO. All assumptions and estimates

used for input values were checked against the relevant sources.

GCC project activity has a less favorable Equity IRR than the benchmark, and hence the GCC project activity cannot be considered as financially attractive. The key data parameters used to calculate Equity IRR are tabulated below. These parameters have been sourced from the EPE document and PPA. Input values used in the investment analysis are valid and applicable at the time of the investment decision (signing of the EPC contract).and the The Net generation has been sourced from the Technical Qualification Document (for approval to participate in the auction) submitted to EPE (Empresa de Pesquisa Energética) which is a government authorized entity for conducting auctions. Hence, this is in line with the guidelines of EB48, Annex 23.

Parameter	Unit	Value	Assessment and cross checking
Total capacity (AC)	MW	60	Verified against EPE Document of August 2015 /5/ , which is prepared by a third party, a government authorized entity for conducting auctions and cross verified against the EPC contract/07/. 108,128 solar PV modules (per module capacity is 78,988x320W; 29,140 x 325W) are installed at each site, commissioned and connected to the national Grid of Brazil. Further, the same has been confirmed during onsite visit./15/
Plant Load Factor	%	24.16 % (Sarta o) 24.14 % (Sobra I)	Verified against annual net electricity generation mentioned in the EPE Document of August 2015, /05/ which is prepared by a third party, a government authorized entity for conducting auctions, for the project which is approved by the Government of Brazil /5/. The maximum yield mentioned in the report is 24.16%(Sartao) and 24.14% (Sobral). The same is cross verified from the actual electricity generation reports/18/ and found that the actual PLF is around 13% higher than the estimated PLF. The PO has performed a sensitivity analysis wherein PLF has also subjected to sensitivity. Even at 20% higher PLF the project activity was not crossing the benchmark. Hence, CCPIL confirms that the PLF considered for the project activity is appropriate; hence acceptable.
Annual Net generation	MWh	63496 (Sarta o)	Verified against annual net electricity generation mentioned in the EPE Document of August 2015, /05/ which is prepared by a third party, a government authorized entity for conducting auctions,
Project Verification Report

		63429 (Sobra I)	for the project which is approved by the Government of Brazil /5/. The values are cross verified from the actual electricity generation reports/18/ and found that the actual annual net generation is around 13% higher than the estimated value. The PO has performed a sensitivity analysis wherein net generation has also been subjected to sensitivity. Even at 20% higher PLF the project activity was not crossing the benchmark. Hence, CCPIL confirms that the PLF considered for the project activity is appropriate; hence acceptable.
Guaranteed Generation	MWh	68328	The PO has calculated the guaranteed Generation as per the CCEE regulations/30/. The GCC verification team has cross checked the parameter with the referenced document by CCEE. It's verified that the PO has taken the value as per the regulations. Hence the value is acceptable.
Annual Degradation	%	0.70%	The Annual Degradation of the WTG Solar PV modules is 0.70%, as per the data provided by Australia's Only Online Solar Comparison Service, solar choice, Online Solar Comparison Service. /41/10/. The same has been cross verified against the website. /07/ Therefore, annualan annual degradation of 0.70% is acceptable.
Tariff	BRL/M Wh	304.5 (Sarta o) 302.5 (Sobra I)	Verified against the EPE Document of August 2015, /05/ which is prepared by a third party, a government authorized entity for conducting auctions, for the project which is approved by the Government of Brazil /5/. Further, the project verification team has checked with the power purchase agreement signed with CÂMARA DE COMERCIALIZAÇÃO DE ENERGIA ELÉTRICA – CCEE. /9/. The values are cross verified from the actual sales revenue reports/47/ and found that the actual annual tariff is around 12% and 10% respectively higher than the estimated value. The PO has performed a sensitivity analysis wherein tariff has also been subjected to sensitivity. Even at 18% higher tariff, the project activity was not crossing the benchmark. Hence, CCPIL confirms that the tariff considered for the project activity is appropriate; hence acceptable.

Operation and Maintenance Cost	BRL/M W/Ann um	50521. 42 (Sarta o) 50521. 43 (Sobra I)	Project owner has taken an assumption of O&M cost for per MW capacity as 1,01,042.83 BRL/MW/Annum. Thus, the total O&M cost is calculated as 60,62,569.8 BRL /Annum. Since the project is already commissioned the GCC project verification team has cross checked the actual O&M cost from the O&M contract/8 / and found that the actual O&M cost is around 42% lower than the estimated value. The parameter is also subjected to sensitivity analysis and the same does not cross the benchmark even at -100%. Hence the GCC project verification body found it acceptable.
Tariff Percentage for generation exceeding guaranteed generation	%	30%	The project owner has mentioned that, for electricity produced by the project activity more than the guaranteed generation, only 30% of the tariff will be provided/31/. The details of the tariff percentage exceeding the guaranteed generation are mentioned in section 6.2 of the PPA. The PPA agreement section 4.4.1, page no. 03 states that "The seller cannot negotiate the excess generation to any other trading company other than CCEE". The GCC verification team has cross checked the details of the same from PPA/09/.
Annual Escalation	%	3.8	The project owner has taken the value of annual escalation as 3.8. The GCC project verification team has cross checked the annual inflation rates in Brazil. the inflation rates during the period i.e.,2015, is more than 9%. The same is conformed from the website of Central Bank of Brazil /42/ and from Statista /48/ and found that the PO have taken the most conservative value. Hence, it's found acceptable.

Project cost	BRL Million	126.33 (Sarta o & Sobral)	Verified against EPE Document of August 2015, which is prepared by a third party, a government authorized entity for conducting auctions, which approved by the Government of Brazil /5/. The same is cross verified against the EPC Contract of December 2016 /07/. The actual cost as per the EPC contract is 156.48 BRL Million for Sartao and 150.31 BRL Million for Sobral. i.e., the actual project cost is around 20% higher than the estimated value. Project verification team has subjected project cost in the sensitivity analysis and found that IRR will not cross the benchmark even if the project cost reduced to -18%. The same is an unlikely scenario. Hence the project cost considered by PO is found conservative and the same is acceptable.
Debt Equity	%	70 30	The debt equity ratio (70:30) considered by the project owner at the time of investment decision is mentioned in the EPE Document/5/. The project verification team has checked the impact of the IRR with the project is funded with various ratios viz. 50:50, 70:30, 95:05 etc. and in all scenarios the IRR is not crossing the benchmark value. Hence, the debt equity ratio considered in the investment analysis is acceptable to the GCC Project Verification team.
Interest Rate	%	14.25	Verified against EPE Document of August 2015 which approved by the Government of Brazil /5/. The project verification team has cross verified the same with data provided by the central bank of Brazil /24/. As per the report the interest rate provided by Central bank of Brazil is around 14.25%. Hence, the value used for the financial analysis is acceptable to the project verification team.
TUST Charges	BRL/k W/mon th	5.19	In Brazil, electricity producers using renewable sources receive a 50% discount in the Tariff for the Use of the Transmission System - TUST fee (from the Portuguese Tarifa de Uso do Sistema de Transmissão). This discount aims at boosting investments in renewable energy projects and shall be considered as a Type Epolicy as defined by Annex 3, EB 22. The TUST cost has been taken into account based on the previous years (FY 2014-2015) starting from the auction date

				(2015) to determine the conservative cost of TUST within the state with comparable project activity/23/. TUST 2014-2015 (R\$kW)
	TFSEE (Electric Energy Services Inspection Fee)	%	0.40	According to Article 29, the inspection fee must be established at 0.4% of the annual economic gain received by the concessionaire, holder of the permit, or other designated person/25/. PO has mentioned the inspection fee in the Quarterly financial report, 2022 of the solar power project activities/14/.
	Debt Repayment tenure	Year	15	The PO has taken the values from Internal Assumption. However, the GCC
	Moratorium	Year	1	verification team has cross checked with the loan sanction agreement. And the values found to be applicable.
	Depreciation Rate	%	10%	Project owner has sourced the value as mentioned from Worldwide Corporate Tax Guide 2015, /44/. The rate is cross checked with worldwide tax summaries by PWC/39/ and found to be correct which was applicable at the time of investment decision.
	Income tax rate (IRPJ)	%	34.00	The Income tax rate is cross checked from the prevailing tax /26/ rates and found to be correct, which was applicable at the time of investment decision. The GCC verification body has cross checked the same from Worldwide Corporate Tax Guide 2015, /44/ which is in the investment decision date, from Cen bank vows action website/40/, and from Delloitte /28/. As per the Brazilian accounting practice, the value is conservative and found to be appropriate.
	Inflation rate	%	3.98	The project owner has taken the value of inflation rate of Brazil in 2015, which is the investment decision year from the Banco Central Do Brazil. /43/ The GCC project verification team has cross checked the annual inflation rates in Brazil. the inflation rates during the period i.e.,2015, is more than 9%. The same is conformed also from Statista /48/ and found that the PO have taken the most conservative value. Hence, it's found acceptable.

VAT % 17 The tax rate is cross checked from the prevailing tax rates and from the international tax, Brazil highlights, 2017 / 28/. It is found to be correct which was applicable at the time of investment decision. The same is cross checked from Worldwide VAT, GST and Sales Tax Guide 2015/27/. Salvage Value % 10% Project owner has taken the value by Worldwide Corporate Tax Guide 2015/44/. As per the Brazilian accounting practice, 100% of the asset value can be depreciated over the 10 years period. However, PO has considered salvage value of 10% which is conservative and found to be appropriate. Applicable Taxes (% of Revenue) Project owner has taken the values of applicable taxes from Worldwide Corporate Tax Guide 2015/44/. As per the Brazilian accounting practice, 10% of the asset value can be depreciated over the 10 years period. However, PO has considered salvage value of 10% which is conservative and found to be appropriate. PIS % 0.65% COFINS % 3.00% Social % of Corporate % 15% Surtax % 15% INComposite % 5%				
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parameters were checked by calculating the variation necessary to reach the benchmark and then discussing the likelihood for that to happen.

Variation %	-10%	Norma I	10%	Variation required to reach benchmar k	Value required to reach benchmar k (Sartao)	Value required to reach benchmark (Sartao)
Tariff	7.52	10.19	12.94	18.40%	360.8	358.5
	%	%	%			
Annual Net	7.26	10.19	12.94	19.90%	76132.0	76051.0
Generation	%	%	%			
Project	12.64	10.19	8.23	-18.70%	102.71	102.71
Cost	%	%	%			
O&M Cost	10.48	10.19	9.90	NA	NA	NA
Calvi Cost	%	%	%			

The results of sensitivity analysis /03/ show that even with a variation of $\pm 10\%$ in tariff, Net power generation, project cost, and O&M cost, equity IRR is significantly lower than the benchmark. And it is evident from the results given above; the project remains additional even under the most favorable conditions. Major input values have been cross checked with the actual values and hence each input value breaching the benchmark is unlikely.

It is verified that the benchmark is reached if:

1. PLF has increased above 20.40%.

PLF considered by the project owner from the EPE Document prepared by the third party, which is approved by the Federal Government of Brazil /05/ is appropriate. The project activity will cross the benchmark only with an increase in PLF by 20.40%. The GCC project verification team has cross checked the actual generation for the period of one year and found that the annual PLF is around 13% higher than the estimated value. A further increase of 7%PLF is not found to be a realistic scenario.

2. Tariff rate is increased by 18.80%

The Tariff rate of electricity used for investment analysis i.e., 304.5 BRL/MWh (Sartao) and 302.5BRL/MWh (Sobral) is sourced from the EPE Document /5/ applicable at the time of investment decision. Furthermore, the project will breach the benchmark value at a tariff variation of 18.80% only. However, the actual tariff based on the actual sales revenue reports/47/ is around 12% and 10% respectively higher than the estimated value and below the value required benchmarking value. % 55.60%. As per the PPA the tariff is fixed and there are not any chances for 20 years. Hence, it's highly unlikely that tariff rate will increase above breaching value.

3. Project Cost is reduced by 19.30%

The project cost considered for investment analysis i.e., 126.33 BRL Million. The cost is sourced from EPE Document. A variation of -19.30% is required for IRR to breach benchmark, which is not possible as the project already commissioned and the actual cost is higher than the estimated value. As per the EPC contract for the project activity, the project cost is 20% higher than the value used for the IRR calculation. Hence, it's highly unlikely that project cost will decrease below breaching value.

4. Reduction in O&M costs

The O&M agreement is already in place by the project owner. GCC project verification team has cross check the O&M contract and found that the actual O&M



Range i	n between 30	MW to 90 MW					
 f) The projects started commercial operation before the project design document (CDM-PDD) is published for global stakeholder consultation or before the start date of proposed project activity, whichever is earlier for the proposed project activity. The start date i.e., the EPC contract signing date of the project activity is on 19/12/2016. As Kyoto Protocol was ratified by Brazil on 23/08/2002, therefore projects which had started commercial operation between 23/08/2002 to 09/09/2016 have been considered. 							
Power Plant Name	Location - State	Technology	COD	Capacity (MW)			
Pirapora 2	MG	Solar	05/18/2016	31.00			
Step 3: within t	he projects id	entified in Step	2, identify those	that are neither			
registered CDM nor project activ N _{all} .	vities undergo	bing GCC Proje	tivities submitted ct Verification. No	tor registration			
After excluding CDM/VCS/GS/G N _{all} = 1	the registered CC projects the	l, submitted for e total number o	registration and f projects,	under validatio			
Step 4: within similar projects identified in Step 3, identify those that apply technologies that are different to the technology applied in the proposed project activity. Note their number N_{diff} .							
Projects with teo activity were ider	Projects with technologies different to technology applied in the proposed project activity were identified as $N_{\text{diff}} = 0$.						
Step 5: calculate factor $F= 1 - (N_{diff}/N_{all})$ representing the share of similar projects (penetration rate of the measure/technology) using a measure/technology similar to the measure/technology used in the proposed project activity that deliver the same output or capacity as the proposed project activity.							
The factor F was $F = 1 - (N_{\text{diff}}/N_{\text{all}})$ $N_{\text{all}} - N_{\text{diff}} = 1 - 0$	The factor F was found to be in line with Tool 24 $F = 1 - (N_{diff}/N_{all}) = 1 - (0/1) = 1$ $N_{all} - N_{diff} = 1 - 0 = 1$						
The project activ apply.	ity would be co	ommon practice,	only both of the fol	lowing condition			
F > 0.2 and N_{all} -	N _{diff} > 3						
For the concerne	ed project, F =	1 and N _{all} - N _{diff} :	= 1 (Which is less t	han 3), therefore			

the proposed project is not a common practice within the applicable geographical

area. Hence, the proposed project is additional.

D.3.6 Estimation of emission reductions or net anthropogenic removal

Means of Verification	Project	Desk Review, Interview
Findings		No findings in this section
Conclusion		Resoling Emission
Conclusion		According to ACM0002 methodology, emission reductions related to project activities is estimated as follows:
		$BE_y = EG_{facility,y} \times EF_{grid,CM, y}$
		Where: BE_y = Baseline emissions in year y (t CO ₂ /yr) $EG_{facility,y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr) $EF_{grid,CM, y}$ = Combined margin CO ₂ 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" (t CO ₂ e/MWh).
		As per para 49 of ACM0002, version 21.0, when the project activity is installation of Greenfield power plant, then:
		EG., - EG.
		EGPJ, y = EGfacility, y
		where,
		EG _{PJ,y} = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/yr)
		Since the electricity generation values differ between years as explained in A.1, annual average electricity generation over the crediting period has been calculated and given in ER Sheet /02/. According to ER Sheet, $EG_{facility,y}$ is.
		EG _{facility, y} (MWh)
		123,000
		Also, according to "Latest available emission factor of the Brazilian national grid approved by its Designated National Authority (DNA) "Ministry of Science and Technology" CO ₂ emission factors for electricity generation in the National
		Interconnected System of Brazil - Base Year 2021 is 0.4624 tCO ₂ /MWh
		Therefore, annual baseline emission is calculated as below:
		BEy = EGPJ,y x EFgrid,CM,y
		= 123,000 MWh x 0.4624 tCO2/MWh = 56,875 tCO ₂ /yr
		Project Emissions (PE_y) As the project activity is a solar based power generation, the project emissions are not applicable to the project activity as per the methodology ACM0002/B02/.

Hence, $PE_y = 0$
Leakage (LE _y) As per ACM0002 /B02/, no leakage emissions are considered.
Therefore, $LE_y = 0$.
Emission Reductions Based on the data above, the emission reduction value for the project activity is:
$ER_y = BE_y - PE_y - LE_y$
ER _y = BE _y =56,875 tCO ₂ /yr

D.3.7 Monitoring plan

Means of Proje Verification	t Desk Review, Interview					
Findings	CAR 04 and CAR 05 were raised and finding is closed. Please refer to Appendix 4 for further details.					
Conclusion	The approved baseline and monitoring methodology "ACM0002" version 21 /B02/ has been applied. The monitoring plan is in accordance with the monitoring methodology; the monitoring plan will give opportunity for real measurement of achieved emission reductions. CCIPL project verification team has checked all the parameters presented in the monitoring plan against the requirements of the methodology; no deviations relevant to the project activity have been found in the plan.					
	CCIPL confirms that the monitoring arrangements described in the monitoring plan are feasible within the project design, and the means of implementation of the monitoring plan are sufficient to ensure the emission reductions achieved by/resulting from the proposed GCC project activity can be reported ex post and verified.					
	Parameters available at the time of project verification (ex-ante) (Mention under section B.6.2 of the PSF) are:					
	Parameter Value Unit Assessment					
	Combine Margin CO2 emission factor in year y of Brazil Grid (EFgrid, CM, y)0.4624tCO2/MWhThe value is calculated considering 75% operating margin and 25% build margin as per the "tool to calculate the emission factor for an electricity system" Version 07.0.0 /B05/.					
	Parameters that will be monitored (ex-post) (Mention under section B.7.1 of the PSF are:					
	Parameter Value Unit Assessment					

EG _{facility,y} (Net Electricity generated and delivered to the grid by the power plant in year y)	126,924	MWh	The es generated value fo verified t meter rea There are activity of meter and bidirection main sub exported The mete which wa visit of the	stimated net d is given, h r the param hrough review ading records/1 e two meters f f 0.2s accuracy d check meter) nal meters, ins stations to me electricity fro er details are pr is verified duri	t electricity nowever, the eter will be v of monthly 8/. or the project y class (main /15/. Both are stalled at the asure the net m the plant. rovided below ng the onsite ty.
				Main Meter	Backup meter
			Serial No	Sertao: MW- 1605A595- 02 Sobral:MW -1207A222- 01	Sertao: MW- 160A123- 02 Sobral: MW- 1605A223 -02
			Date of Calibr ation/ validity	08/09/2016 to 07/09/2026	08/09/201 6 to 07/09/202 6
			Refere nce No. of Calibr ation Certifi cate	CAL 042/2015	CAL 042/2015
			Locati on of meter	São Raimundo Nonato (Main Substation) and Sao Joao Do Piaui (Pooling Substation)	São Raimundo Nonato (Main Substation) and Sao Joao Do Piaui (Pooling Ssubstatio n)
			The calib phase me and main calibration	ration and ver eters need to l tained once in n of the met	ification for 3 be conducted 5 years. The ers is being

Replacing fossil fuels with renewable sources of	126,924	MWh	performed as per the national regulations of CCEE /11/and /12/. The Net electricity is calculated based on Export- Import. Monthly meter readings are taken from the main and check meters installed at metering point. Backup/Check meters are also installed in case of non-functioning or breakdown of Main meters. Check meter readings will be considered in case of failure of Main meters. The export and import values of the monthly Joint Meter Reports is cross checked with the export and import values mentioned in the invoice, by the developer and CAM GyM. The same is consistent with the PSF/1/. The same has been confirmed during the onsite visit /15/. The parameter will contribute to the SDG 7. The project activity will result in emission reduction by replacing the fossil fuels with renewable sources of energy. The same will be monitored and confirmed through the monthly
energy CO ₂ Emissions	56,875	tCO₂e/year	generation records/18/. The project activity will result in emission reduction. The same will be contributing toward the sustainable development goal SDG 13. The parameters will be monitored on a monthly basis. The same will be reported through ER calculation sheet. /02/
Solid Waste Pollution from Hazardous Wastes	At actual record	Count of the wastes (tons/year)	The project activity may generate Hazardous waste during the operation of the project activity. Hazardous waste will be handled according to the national regulations: Law 12.305/2010 (which amends Law 9.605/1998)/19/; the same will be treated and disposed as per the law. Hazardous waste quantity generated and disposed of will be continuously monitored and recorded in the EMP/13/. The same will be issued at the time of verification. The data is provided in the Environmental management plan of Sartao and Sobral solar power plants/13/.

Solid Waste Pollution from E-Wastes	At actual record	Count of the wastes (tons/year)	The project activity may generate E- waste during the operation of the project activity. E-wastes will be handled according to the national regulations: Law 12.305/2010 (which amends Law 9.605/1998)/19/; the same will be treated and disposed as per the law. E wastes quantity generated and disposed of will be continuously monitored and recorded in the Plant logbooks or records annually and the details will be recorded in EMP /13/. The records will be issued at the time of verification. The same is confirmed from the agreement between licensed third-party vendor /20/.
Solid Waste Pollution from end-of-life products/equip ment	At actual record	Count of the wastes (tons/year)	The project activity may generate end-of-life products/equipment during the operation of the project activity. The same will be handled according to the national regulations: Law 12.305/2010 (which amends Law 9.605/1998)/19/; the same will be treated and disposed as per the law. Hazardous waste quantity generated and disposed of will be continuously monitored and recorded in the Plant logbooks or records annually and the details will be recorded in EMP /13/. The same will be issued at the time of verification.
Solid Waste Pollution from batteries	At actual record	(tones/year)	The project activity may generate battery waste at the end of its lifetime during the operation of the project activity. The same will be handled according to the national regulations: Law No. 12305. Brazilian National Policy on Solid Waste (batteries)/19/; the same will be disposed or transferred to recycler as per the law. Battery waste quantity generated and disposed will be continuously monitored and recorded in the Plant logbooks or records annually and the details will be recorded in EMP/13/.The same will be issued at the time of verification.
Water Consumption from ground and other sources	At actual record	Liters	The project activity may consume water from ground and other sources during the operation of the project activity. The same will be handled according to the national regulations: National Hydric Resources Policy – Law 9.433/1997/19/; The wastewater will be diverted through the drain

· · · · ·				
	Generation of Wastewater	At actual record	Liters	system to the drainage. The wastewater generated will be continuously monitored and recorded in the Plant logbooks or records annually and the details will be recorded in EMP /13/. The same will be issued at the time of verification. The project activity may produce wastewater during the operation of the project activity. The wastewater will be diverted through the drain system to the drainage. The same will be continuously monitored and recorded in the Plant logbooks or records annually and the details will be recorded in the Plant logbooks or records annually and the details will be recorded in EMP /13/. The same will be issued at the time of
	Long-term jobs (> 1 year) created	At actual record	Numbers	verification. Project activity will generate long term local employment. This will be an indicator against sustainable development goal SDG 8. The parameter will be verified through employment records/38/
	Non- discrimination practices	At actual record	Numbers	Project activity will not have any discrimination practices. The same will be monitored and verified through HR policy/38/.
	Occupational health hazards	At actual record	Numbers	The project activity may have the possibility of Occupational health hazards in project sites during the operation of the project activity. The same will be monitored and verified through employment training records at the time of verification /38/.
	Job related training imparted	At actual record	Numbers	The project activity will generate on- job training to the employees. The same will be monitored and verified through employment training records at the time of verification /38/.
	Project-related knowledge dissemination effective or not	At actual record	Numbers	The project activity will generate on- the-job training to the employees. The same will be monitored and verified through employment training records at the time of verification /38/.
	Reducing / increasing accidents/incide nts/fatality	At actual record	Numbers	During the project activity, there is monitoring of occupational health hazards occurred during the project operation and recording the no. of related EHS trainings conducted to mitigate the impact of possible occupational health hazards at the project site. The same will be handled according to the national regulations: Law No. 6,514/1977, known as the Consolidation of Labor

			Laws (Consolidação das Leis do Trabalho or CLT). /19/; The wastewater will be diverted through the drain system to the drainage. The wastewater generated will be continuously monitored and recorded in Plant logbooks or records annually and the details will be recorded in EMP /13/. The same will be issued at the time of verification.
Community and rural welfare	At actual record	Numbers	The project activity will contribute to the Economic, Environmental, Economical, and social well-being for the community. The same will be monitored and verified through community development records at the time of verification.
Amount of renewable energy supplied to grid for consumption	126,924	MWh	The project activity will result in emission reduction by replacing the fossil fuels with renewable sources of energy. The same will be monitored and confirmed through the monthly generation records/18/. The same will be contributing toward the sustainable development goal SDG 7.
Women's empowerment	At actual record	Numbers	The project activity will result in women empowerment. The same will be contributing toward the sustainable development goal SDG 5. The parameter will be monitored on yearly basis.
Exploitation of Child Labor	At actual record	Numbers	The project activity monitors there is no child labor happening during the operation of the project activity. The same will be handled according to the national regulations: Labour Act - 2 Law Decree No. <u>5452/1943</u> . Labor Laws Consolidation./32/; Records are being maintained that avoids the violation of child labor act and archived till the end of the crediting period. The same will be issued at the time of verification.
Average earning of females and male employees engaged in the project and segregated by age and persons with disabilities	At actual record	Numbers	Project activity will generate long term local employment. This will be an indicator against sustainable development goal SDG 8. The parameter will be verified through employment records/38/.

Reductions in Emissions (tCO2e) per unit of product due to project	56,875	tCO₂e/year	The project activity will result in emission reduction. The same will be contributing toward the sustainable development goal SDG 13. The parameter will be monitored on monthly basis
The monitoring pla	n content h	has been check	ted in the project activity and compared
against the require	ments of the	e monitoring m	ethodology /B02/. It has been confirmed
by the verificatio	n team t	hat the moni	itoring plan, procedures, roles and
responsibilities pro	vided in the	e PSF is deeme	ed to be feasible.

D.4. Start date, crediting period and duration

Means of Project Verification	Desk Review, Interview
Findings	No findings in this section.
Conclusion	The start date of the project is 09/09/2017, which is the start date of earliest date of the commercial operation of the first project /4/. Crediting period has been chosen as fixed 10 years from 09/09/2017 to 08/09/2027.
	A crediting period of a maximum length of 10 years has been selected by the project proponent. Therefore, the duration of the crediting period is from 09/09/2017 to 08/09/2027. Technical lifetime for the project activity is 25 years /10/. The project verification team concludes that the duration of the proposed project activity is in conformance with the requirements of §39 and §40 of GCC Project Standard, version 03.1 /B01-1/.

D.5. Environmental impacts

Means of Verification	Project	Desk Review, Interview
Findings		No findings in this section.
Conclusion		The project activity has obtained relevant and required environmental approvals and operational licenses prior to the start of the construction of the project activity. Applicable impact assessment studies have been carried out before the construction of the project activity. Project owner has conducted an Environmental and social impact assessment study. The project verification team has confirmed that the Environmental and social impact assessment study was carried out during April 2014. The report concludes that implementation of the solar power project does not have any adverse impacts on the geology, Air quality, Noise quality, Human values, social and economic issues in the project area/06/, /13/, /19/ and /60/.
		The project will benefit the local people by engaging them in construction, operation. and maintenance activities during the project. The verification team also confirm that the project owner has taken all the necessary legal approvals from the government and other parties to implement the project activity.

D.6. Local stakeholder consultation

Means	of	Project	Desk review and Interviews
Verificat	ion		

Findings	CL 05 have been raised and closed, Please refer to Appendix 4 for further details.
Conclusion	It has been indicated in the PSF /1/ that the local stakeholder consultation has been
	done for the project activity on 22/01/2017 at Community of Riacho dos Negros, in
	the municipality of São João do Piauí. The meeting announcement was done by
	putting public notice at project site/nearby village. The same covers meeting
	location, date, time, and contact information/22/. A summary of comments has been
	provided by the project owner in the PSF/1/ and it is found that no adverse
	comment was received for the project activity. This has also been verified by CCIPL
	project verification team during site visit /15/. Further, the interviews confirmed that
	there was no adverse comment about the project and this project will lead to
	employment generation and better environmental conditions. CCIPL considers the
	local stakeholder consultation carried out adequately and can confirm that the
	process is in line with the requirements of GCC. /22/

D.7. Approval and Authorization- Host Country Clearance

Means of Verification	Project	Desk Review, Interview
Findings		No findings in this section.
Conclusion		The verification team confirms that no HC approval is required by the CORSIA labelled project activity, and the HCA will be required during the first or subsequent verification.

D.8. Project Owner- Identification and communication

Means of Verification	Project	Desk Review, Intervie	2W	
Findings		CAR 09 was raised, and finding is closed. Please refer to Appendix 4 for further		
Conclusion		detalls.		
Conclusion		Project Owner name (as per LON/LOA)	SERTAO I SOLAR ENERGIA SPE S.A.	
		Country	Brazil	
		Address	Av das Americas, 42 BLC6 SAL 401, 22.640-102, Barra da Tijuca, Rio de Janeiro, BRAZIL	
		Telephone	+52 55 4488 5087	
		Fax	-	
		E-mail	vdurango@naturgy.com	
		Website	www.globalpower-generation.com	
		Contact person	Víctor Durango Domínguez	
		Project Owner name (as per LON/LOA)	SOBRAL I SOLAR ENERGIA SPE S.A.	
		Country	Brazil	
		Address	Av das Americas, 42 BLC6 SAL 401, 22.640-102, Barra da Tijuca, Rio de Janeiro, BRAZIL	
		Telephone	+52 55 4488 5087	
		Fax	38 28028	
		E-mail	vdurango@naturgy.com	
		Website	www.globalpower-generation.com	

Contract norsen	Víctor Durango Domínguoz
Contact person	Victor Durango Dominguez
Project Owner	NATURGY COMMODITIES TRADING, S.A. ("NCT")
name (as per	
LON/LOA)	
Country	Brazil
Address	AVENIDA SAN LUIS 77, 28033 MADRID, Spain.
Telephone	+34691515279
Fax	-
E-mail	greentrading@naturgy.com
Website	www.naturgy.com
Contact person	Marta Pla Carrasco
This is in compliance	with the Para 10 (i) of the Project Standard Version 3.1. The
information and conta	act details of the representation of the project owner and
project owners thems	selves has been appropriately incorporated in Appendix 1 of
the PSF which was o	hecked and verified by the verification team from Authorization
letter signed by the p	project owners. All information was consistent between these
documents	
documents.	

D.9. Global stakeholder consultation

Means of Project Verification	Desk Review, Interview
Findings	No Findings in this section.
Conclusion	The process for global stakeholder consultation was conducted in accordance with the requirements of section 3.2.4 of the Verification Standard (version 03.1) /B01-2/. The PSF was published for global stakeholder consultation from 20/11/2022 – 04/11/ 2022. During the above period no Global stakeholders' comments were received. PSF was published on the GCC website and invited comments by affected parties, stakeholders, and non-governmental organizations from 20/11/2022 – 04/11/ 2022. No comments were received during this period. The verification team confirm that no comments were received during the Global
	stakeholder consultation. Verification team is of the opinion that the changes in the
	PSF during the validation process do not require the publication of the revised PSF for global stakeholder consultation.

D.10. Environmental Safeguards (E+)

Means of Project Verification	Desk Review, Interview		
Findings	CL 06 and CAR 08 were raised, and findings are closed. Please refer to Appendix 4 for further details.		
Conclusion	The Project owner has chosen to apply for the Environmental No-net-harm Label E+). The assessment of the impact of the project activity on the environmental safeguards has been carried out in section E.1 of the PSF. Out of all the safeguards no risks to the environment due to the project implementation were identified and the following environmental impacts were considered for the project activity.		
	Indicators for environmentalLegal Requireme nt StatusMonitoringDo no harm 		

Environment – Air; CO ₂ emissions	No mandatory law/regulati on is related to the same.	The project is expected to reduce the CO ₂ emission throughout the crediting period/1/ /2/. The parameter will be monitored on monthly basis /1/. Calculation details provided in PSF/1/ and ER sheet/2/. The monitoring approach found acceptable.	Evaluation and Score Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is
Environment – Land; Solid waste Pollution from Hazardous wastes	Law 12.305/201 0 (which amends Law 9.605/1998) /19/	The project activity may generate Hazardous waste during the operation of the project activity. Hazardous waste will be handled according to the national regulations: Law 12.305/2010 (which amends Law 9.605/1998) /19/; All kinds of the solid wastes generated during the project activity will be collected, sorted, stored and disposed to the licensed vendor as per the regulation pertaining to the respective hazardous waste management rules of state and central pollution control board whichever precedes The same is confirmed from the EIA reports/06/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Environment – Land; Solid waste Pollution from E-wastes	Law_ 12.305/201 0 (which amends Law_ 9.605/1998) /19/.	The project activity may generate E-waste during the operation of the project activity. E-wastes will be handled according to the national regulations: Law 12.305/2010 (which amends Law 9.605/1998)/19/; All kinds of the E- wastes generated during the project activity will be collected, sorted, stored and disposed to the authorized vendor for the recycling or to dump at the legacy MSW site s as per the regulation pertaining to the respective E- waste management rules of state and central pollution control board whichever precedes. It will be continuously monitored and recorded in the EMP /13/. The same is confirmed from Hazardous waste management Agreement/20/ and EIA reports/06/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.

Environment – Land; Solid waste Pollution from Batteries	Law No. 12305. Brazilian National Policy on Solid Waste (batteries) /19/	This project does not have any battery storage facility to store the generated power. However, there are few batteries used to start the inverters and for the standby power to the computers used in the project office at the site. At the end of lifetime, the batteries will be handed over to the recycler or manufacturer to replace with new batteries. Old batteries will not be disposed to the open landfill. Hence the impact is harmless. The same will be handled according to the national regulations: Management of waste and discarded materials, 2015 /19/; Battery waste quantity generated and disposed will be continuously monitored and recorded in the EMP /13/. The same is confirmed from and EIA reports/06/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Environment – Land; Solid waste Pollution from end-of-life products/ equipment	Law 12.305/201 0 (which amends Law 9.605/1998) /19/	The project activity may generate end-of-life products/equipment during the operation of the project activity. The same will be handled according to the Law 12.305/2010. Project Owner will collect, store and dispose the E- waste to the licensed vendors/manufacturers at the end of life of products/equipment's in compliance to the E-waste Management rules. The same is confirmed from Hazardous waste management records/20/ and EIA reports/06/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Environment – Water; Water Consumption from ground and other sources	National Hydric Resources Policy – Law 9.433/1997	We will use groundwater for domestic and cleaning purposes. There is no influence on the current usage pattern because the project is not situated in a residential or rural region.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Replacing fossil fuels with renewable sources of energy	No mandatory law/regulati on is related to the same.	The project activity will replace fossil fuel with the installation of renewable solar energy for the power generation, which would have been otherwise generated by the operation of grid-connected	Evaluation found Harmless. The same is acceptable to the GCC

	power plants and by the addition of new generation sources,. The same is monitored through the monthly power generation report /18/. The same is confirmed during the onsite visit/15/.	project verification team. Hence the scoring +1 is acceptable.
The verification team co	nfirm that the project activity will not cause a	ny net harm to

D.11. Social Safeguards (S+)

Means of Project	Desk Review,	Interview		
Verification			and findings and slaged Discourse	
Findings	4 for further de	for further details.		
Conclusion	The Project ov assessment of carried out in s due to the pr indicated as po and the suppo section E.2 of procedures of	The Project owner has chosen to apply for the Social No-net-harm Label (S+). The assessment of the impact of the project activity on the social safeguards has been carried out in section E.2 of the PSF. Out of all the safeguards no risks to the Sociel due to the project implementation were identified and the following have been indicated as positive impacts. The verification team based on the review of the PSF and the supporting document/15/ confirms that the social impacts mentioned in the section E.2 of the PSF is applicable to the Project activity and the monitorin procedures of the parameters are provided.		
	Indicators for social impacts	Legal Requirement Status	Monitoring	Do no harm assessmen t Evaluation and Score
	Long-term jobs (> 1 year) created/ lost	Host country minimal wage requirements Regulations on Minimum Wage for Employees working by Labor Contract.	The project activity generates long term job opportunities during the operation of the project activity with non-discrimination policy. The same is monitored and keep records by employment records/38/ and complying host country minimal wage requirements. The monitoring approach found acceptable.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
	Occupation al health hazards	Law No. 6,514/1977, Consolidation of Labor Laws (Consolidação das Leis do Trabalho or CLT).	The project activity may have the possibility of accidents/incidents/near miss in project sites due to human intervention or technical failure or emergency. The same will be monitored and verified through employment training records /38/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1

Reducing / increasing accidents/I ncidents/fat ality	Law No. 6,514/1977, Consolidation of Labor Laws (Consolidação das Leis do Trabalho or CLT).	There is a possibility of accidents/incidents/near miss in project sites due to human intervention or technical failure or emergency. The same is prevented by establishing EHS policy guidelines and imparting periodic trainings and providing PPE kits to employees and visitors.	is acceptable. Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
specialized training / education to local personnel	No mandatory law/regulation is related to the same.	The project activity will generate on-job training to the employees. The same will be monitored and verified through employment training records /38/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Project- related knowledge disseminati on effective or not	No mandatory law/regulation is related to the same.	The project activity will generate on-job training to the employees. The same will be monitored and verified through employment training records at the time of verification /38/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Community and rural welfare	On-Job Training	The project activity will contribute to the Economic, Environmental, Economical, and social well- being for the community. The same will be monitored and verified through community development records at the time of verification.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1

			io	
			15	
			acceptable.	
	Labour Act - 2	Project activity provides	Evaluation	
Exploitation	Law Decree	employment in the region.	found	
of Child	No.	However, project owner adheres	Harmless.	
labour	5452/1943.	to the The Child Labour (Labour	The same	
	Labor Laws	Act - 24 Law Decree No.	is	
	Consolidation	5452/1943/32/. Labor Laws	acceptable	
		Consolidation, ensuring there is	to the GCC	
		no exploitation of child labour.	project	
		The same will be monitored	verification	
		through employment records and	team	
		interview with site people and	Hence the	
		reported annually	scoring +1	
		reported annually.	ie	
			accontable	
			acceptable.	
Verification tea	m will be able to	confirms that Project activity will not	cause any net	
harm to the so	ciety and net scor	e for project activity comes out to be	e +7.	

D.12. Sustainable development Goals (SDG+)

Means of Project Verification	Desk Review, Interv	Desk Review, Interview		
Findings	CAR 08 was raised, details.	and finding is closed. Please ref	er to Appendix 4 for further	
Conclusion	The Project owner has chosen to apply for the United Nations Sustainable Development Goals (S+). The assessment of the impact of the project activity on the SDG's has been carried out in section F of the PSF. The project is expected to contribute 3 SDGs which are SDG 7, 8, and 13. The verification team confirms that the SDG chose by the project owner is in compliance with the GCC Project sustainability standard V.2.1 and is applicable to the Project activity and the monitoring procedure of each SDG is given in section F and B.7.1 of the PSF.			
	UN- level SDGs Monitoring		Do no harm assessment Evaluation and Score	
	Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	Project Owner, after its implementation, from 2019 is offering scholarships for educational universities. The same is confirmed from the scholarship details provided by the PO/49/.	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.	

Goal 5. Achieve gender equality and empower all women and girls	Projects are commissioned on 09/09/2017 and thus all policies related to the gender equality and remuneration are in place for implementation. The same is monitored and confirmed from the list of women employees if employed any and organization policy on gender equality and equal remuneration. /38/	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.
Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	The project activities that commissioned on 2017 continues to provide clean energy to the global energy mix, thereby complying with the SDG target 7.2. The same is confirmed from the commissioning certificate/04/, PPA/09/ and monitored throughout the technical lifetime of the project activity.	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.
Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	The project activity is found to be generating employment opportunities in long term and short term thereby complying to the SDG target 8.5. The same is monitored and confirmed from employment records and HR policy/38/	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.
Goal 13. Take urgent action to combat climate change and its impacts.	The project activity reduces greenhouse gas annually by 56,875 tCO ₂ meeting the SDG target 13. A. The same is confirmed from the ER sheet/02/ and monthly electricity generation report/18/.	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.

D.13. Authorization on Double Counting from Host Country (for CORSIA)

Means of Verification	Project	Desk review and interview
Findings		CAR 07 was raised, and findings are closed. Please refer to Appendix 4 for further details.

Conclusion	A declaration under section A.5 of the PSF has been included for offsetting the approved carbon credits (ACCs) for the entire crediting period from 09/09/2017 to 08/09/2027. The host country attestation is yet to be obtained for authorization on double counting. The project owner has clarified the intent of use of carbon credits for CORSIA hence no double counting will take place.

D.14. CORSIA Eligibility (C+)

Means of Project	Desk review and interview
Findings	CAR 07 was raised, and finding is closed. please refer to Appendix 4 for further details.
Conclusion	 The project activity meets eligible criteria for CORSIA (C+) since the crediting period is after 01/01/2016 and the project is applying for registration under GCC which is one of the approved programmes under CORSIA. The verification team confirms that project activity is also likely to achieve following eligibility requirement: It will reduce a forecasted amount of greenhouse gases, since project activity is the implementation of renewable energy system. Likely to achieve Environmental No-net harm (E+ label) as discussed in section D.10. Likely to achieve Social No-net harm (S+ label) as discussed in section D.11. Likely to achieve SDG+ label with Gold Certification label.

Section E. Internal quality control

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The Final project verification report prepared by the verification team was reviewed by an independent technical review team to confirm if the internal procedures established and implemented by CCIPL were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable GCC rules/requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/ sectoral scope the project activity relates to. All team members of technical review team were independent of the verification team.

The technical review process may accept or reject the verification opinion or raise additional findings in which case these must be resolved before requesting for registration. The technical review process is recorded in the internal documents of CCIPL, and the additional findings gets included in the report. The final report passed by technical reviewer is approved by the authorized personal of Carbon Check and issued to PO and/or submitted for request for registration, as appropriate on behalf of CCIPL.

Section F. Project Verification opinion

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CCIPL was contracted by NATURGY COMMODITIES TRADING, S.A. ("NCT") on 27/01/2023, for project verification of the project activity "SERTAO and SOBRAL I Solar PV Project by GPG NATURGY". The project verification was performed based on rules and requirements defined by GCC for the project activity.

The project activity is a solar power project, which results in reductions of CO₂e emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely baseline scenario and the emission reductions attributable to the project are, hence, additional to any that would occur in the absence of the project activity. The project correctly applies the approved baseline and monitoring ACM0002 "Grid-connected electricity generation from renewable sources", Version 21.0 and is assessed against latest valid PS, VS and Environment and Social Safeguards Standard, Project-Sustainability-Standard and/or other applicable GCC/CDM Decisions/Tools/Guidance/Forms.

The project activity is likely to achieve the anticipated emission reductions stated in the PSF provided the underlying assumptions do not change. The expected emission reductions (annual average) from the project activity are estimated to be 56,875 tCO₂e/year over the 10 years crediting period starting from 09/09/2017.

CCIPL has informed the project owners of the project verification outcome through the draft project verification report and final project verification report. The final project verification report contains the information regarding fulfilment of the requirements for project verification, as appropriate.

CCIPL applied the following verification process and methodology using a competent verification team.

- The desk review of documents and evidence submitted by the project owner in context of the reference GCC rules and guidelines issued,
- Undertaking/conducting site visit, interview, or interactions with the representative of the project owner.
- Reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate
- Preparing a draft verification opinion based on the auditing findings and conclusions.
- Technical review of the draft project verification opinion along with other documents as appropriate by an independent competent technical review team.
- Finalization of the project verification opinion (this report)

Carbon Check (India) Private Limited (CCIPL) has verified and hereby certifies that the GCC project activity "SERTAO and SOBRAL I Solar PV Project by GPG NATURGY".

a. Has correctly described the Project Activity in the Project Submission Form including the applicability of the approved methodology ACM0002, version 21.0 and meets the methodology applicability conditions, is additional and is expected to achieve the forecasted real and additional GHG emission reductions, complies with the monitoring methodology, has appropriately conducted local and global stakeholder consultation processes and has calculated emission reduction estimates correctly and conservatively.

b. Is likely to generate GHG emission reductions amounting to the estimated 568,752 tCO₂e as indicated in the PSF, which are additional to the reductions that are likely to occur in absence of the Project Activity and complies with all applicable GCC rules, including ISO 14064-2 and ISO 14064-3, and therefore requests the GCC Program to register the Project Activity.

c. is not likely to cause any net-harm to the environment and/or society and complies with the environmental and Social Safeguards Standard, and therefore requests the GCC Program to register the Project Activity,

which is likely to achieve the requirements of the Environmental Nonet-harm Label (E+) and the Social Nonet-harm Label (S+); and

d. is likely to contribute to the achievement of United Nations Sustainability Development Goals (SDGs), comply with the Project Sustainability Standard, and contribute to achieving a total of 5 SDGs, which is likely to achieve the platinum SDG certification label (SDG+)

e. is likely to contribute to CORSIA Eligible Emission Units and has CORSIA Label (C+) certification valid till 31 December 2020. A written attestation from the Host country on double counting is not required until 31 December 2020 and the project was found meeting the applicable requirements prescribed by ICAO.

Appendix 1. Abbreviations

Abbreviations	Full texts
ACC	Approved Carbon Credits
ACC+	Approved Carbon Credit Label
BM	Build Margin
CAR	Corrective Action Required
CCIPL	Carbon Check India Private Limited
CDM	Clean Development Mechanism
CL	Clarification Request
СМ	Combined Margin
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
DPP	Distributed Power Plants
EPE	Empresa de Pesquisa Energética
DR	Document Review
E+	Environmental No net harm Label
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
EPC	Engineering Procurement and Construction
ERVR	Emission Reduction Verification Report
FAR	Forward Action Request
GCC	Global Carbon Council
GHG	Greenhouse Gas
GORD	Gulf Organization for Research and Development
GPS	Global Positioning System
GV	GCC Verifier
GWP	Global Warming Potential
HCA	Host Country Approval
1	Interview
IPCC	Intergovernmental Panel on Climate Change
ISO	International Organization for Standardization
KCIPL	Kosher Climate India Private Limited
O&M	Operation and Maintenance
ОМ	Operating Margin
PPA	Power Purchase Agreement
PSF	Project Submission Form
PVR	Project Verification Report
S+	Social No- net harm Label
SCADA	Supervisory Control And Data Acquisition
SDG+	United Nation Sustainable Development Goal Label
UNFCCC	United Nations Framework Convention on Climate Change
VAT	Value Added Tax
VB	Verification Body

Appendix 2. Competence of team members and technical reviewers

	Carbon				
	Carbon Check (India) Private Limited				
	Certificate of Competency				
		Mr. Vi	jay Mat	thew	
has been qualified as per CCIPL's internal qualification procedures in accordance with the requirement of CDM AS (VZ 0). ISO/IEC 14065:2020. ISO/IEC 17029:2019 and other applicable GHG programs					
		for the following	functions and r	equirements:	
🛛 Validat	or	🛛 Verifier	🛛 Team Lea	ader	🛛 Technical Expert
🛛 Technic	al Reviewer	🗆 Health Expert	🗌 Gender E	Expert	🗆 Plastic Waste Exper
⊠ SDG+		⊠ Social no-harm(S+)) 🛛 Environn	nent no-harm(E+)	CCB Expert
🛛 Financi	al Expert	⊠ Local Expert for In	dia		
		in the foll	owing Technical	Areas:	
	🗆 TA 1.1	🛛 TA 1.2	🗆 TA 2.1	🖾 TA 3.1	🗆 TA 4.1
	🗆 TA 4. n	🗆 TA 5.1	🗆 TA 5.2	🗆 TA 7.1	🗆 TA 8.1
	🗆 TA 9.1	🗆 TA 9.2	🗆 TA 10.1	🖾 TA 13.1	🖾 TA 13.2
	🗆 TA 14.1	🗆 TA 15.1			
	lssue	Date		Expir	y Date
	1 st Janua	ary 2023		31 st Dece	mber 2023
	Vixash L.	S:S	Amilo		
Mr. Vikash Kumar Singh		Kumar Singh		Mr. Am	it Anand

		Carb	on «——	
Carbo	on Check	(India)	Private	Limited
	Certificat	e of Con	npetenc	y
	Mr. Rish	i Raycho	udhury	
nas been qualified as pe of CDM AS (V7.0), ISO	r CCIPL's internal q /IEC14065:2020, IS	ualification proce 50/IEC 17029:20	edures in accorda 019 and other a	ance with the requirement pplicable GHG programs:
	for the followi	ing functions and re	equirements:	
⊠ Validator	🛛 Verifier	🛛 Team Lea	der	🛛 Technical Expert
Technical Reviewer	🗆 Health Expert	🗆 Gender E	xpert	🗆 Plastic Waste Expert
⊠ SDG+	Social no-harm(S	5+) 🛛 Environm	ent no-harm(E+)	CCB Expert
🗆 Financial Expert	⊠ Local Expert for	India		
	in the fo	ollowing Technical .	Areas:	
🗆 TA 1.1	🖾 TA 1.2	🗆 TA 2.1	🗆 TA 3.1	🗆 TA 4.1
🗆 TA 4. n	🗆 TA 5.1	🗆 TA 5.2	🗆 TA 7.1	🗆 TA 8.1
🗆 TA 9.1	🗆 TA 9.2	🗆 TA 10.1	🗆 TA 13.1	□ TA 13.2
🗆 TA 14.1	🗆 TA 15.1			
lssue	Date		Expi	ry Date
1⁵t Janua	iry 2023		31 st Dece	ember 2023
Jinson Q.	s.S_			a shine
Mr. Vikash Complia	Kumar Singh nce Officer		Mr. An	nit Anand CEO



Appendi	ix 3.	Document	reviewed	or re	ferenced
Append		Doounicit	i c i c i c i c u		

No.	Author	Title	References to the document	Provider
1	SERTAO I SOLAR ENERGIA SPE LTDA	PSF: SERTAO and SOBRAL I Solar PV Project by GPG NATURGY	Version 02, dated 16/11/2022 (Initial) Version 03, dated. 05/07/2023 Version 04, dated. 26/07/2023 Version 05, dated. 03/08/2023 Version 06, dated. 04/10/2023 Version 07, dated. 24/10/2023 (final)	Project Owner
2	SERTAO I SOLAR ENERGIA SPE LTDA	Emission reduction calculation spread sheet of SERTAO and SOBRAL I Solar PV Project by GPG NATURGY	Version 01, dated. 30/06/2022 (Initial) Version 03, dated. 05/07/2023 Version 04, dated. 26/07/2023 (final)	Project Owner
3	SERTAO I SOLAR ENERGIA SPE LTDA	Financial analysis worksheet of SERTAO and SOBRAL I Solar PV Project by GPG NATURGY	Version 01, dated 30/06/2022 (Initial) Version 03, dated. 05/07/2023	Project Owner

			Version 04, dated. 26/07/2023 Version 05, dated. 03/08/2023 Version 07, dated. 24/10/2023 (final)	
4	ANEEL	Commissioning Certificate (COD)/Agreement On commercial operation date of SERTAO and SOBRAL I Solar PV Project by GPG NATURGYSERTAO Commissioning Certificate (COD)/Agreement On commercial operation date of SOBRAL	08/08/2017 08/08/2017	Project Owner
5	Energy Research Company	EPE Document of Sertao I	10/08/2015	Project Owner
	Energy Research	EPE Document of Sobral I	10/08/2015	Project
	Company			Owner
6	Vento Environmental Consultancy	Environment and social Impact Assessment report for the for SERTAO I Environment and social Impact Assessment	April 2014 April 2014	Project Owner
		report for the for Sobral		
	Vento Environmental Consultancy	Environment and social Impact Assessment report for the for Sobral I	April 2014	Project Owner
7	SERTAO and SOBRAL I SOLAR ENERGIA SPE LTDA	EPC Contract In relation to SERTAO I SOLAR ENERGIA SPE LTDA and PVH BRASIL PROJETOS RENOVAVEIS LTDA EPC Contract In relation to SOBRAL I SOLAR ENERGIA SPE LTDA and PVH BRASIL PROJETOS RENOVAVEIS LTDA	19/12/2016 19/12/2016	Project Owner
8	SERTAO and SOBRAL I SOLAR ENERGIA SPE LTDA	O&M contract between SERTAO I SOLAR ENERGIA SPE LTDA and Solarig Brasil Servicos Em Energia Ltda. O&M contract between SOBRAL I SOLAR ENERGIA SPE LTDA and Solarig Brasil Servicos Em Energia Ltda.	30/10/2020 30/10/2020	Project Owner
9	Reserve Energy Contract - CER	Power purchase agreement of Sertao solar power plant Power purchase agreement of Sobral solar power plant	27/04/2016 27/04/2016	Project Owner
10	GPG	Letter of Authorization	07/11/2022	Project

				Owner
11	National Electric	Submodule 6 16	29/11/2022	Project
	System Operator	Maintenance of the measurement System	20/11/2022	Owner
12	National Electric	Submodule 6.17	08/12/2020	Project
	System Operator	Collection of measurement data for invoicing		Owner
13	Vento	Environmental Management plan of Sertao	May 2016	Project
	environmental	solar power plant		Owner
	consultancy		Ma 0040	
		Environmental Management plan of Sobrai	May 2016	
1/	Demonstrações	Quarterly financial report 2022 of Sertao solar	31 March 2022	
14	Financeiras	power plant	51 March 2022	
	Intermediarias			
		Quarterly financial report 2022 of Sobral solar		
		power plant	31 March 2022	
15		Onoite visit desuments deted 00/02/2022	00/02/2022	
15	Ministry of Science	Latest available emission factor of the Brazilian	09/02/2023	Publicly
10	and Technology	national grid approved by its Designated		available
	ana reenneregy	National Authority (DNA) Ministry of Science		
		and Technology CO2 emission factors for		
		electricity generation in the National		
		Interconnected System of Brazil - Base Year		
		2021		
		¹ https://www.gov.br/mcti/pt-br/acompanhe-o-		
		mcti/sirene/dados-e-ferramentas/fatores-de-		
		emissao		
17	Aswath Damodaran	Benchmark calculation: "Corporate Finance:		Others
		Theory and Practice, 2nd Edition" 2 nd edition, by		
		Aswath Damodaran (page 320), Published by		
18	SERTAO and	Actual energy generation reports of Sertag solar	2017-2022	Project
10	SOBRAL I SOLAR	power plant	2011 2022	Owner
	ENERGIA SPE			
	LTDA			
		Actual energy generation reports of Sobral solar	2017- 2022	
		power plant		
10	Fodoral	Law No. 12205 Brazilian National Boliev on		Publichy
19	government of	Solid Waste (batteries)		available
	Brazil	https://www.iea.org/policies/15805-law-no-		available
		12305-brazilian-national-policy-on-solid-waste-		
		batteries		
00			40/00/0004	Duciest
20		nazardous waste management Agreement	12/08/2021 -	Project
	ENERGIA SPF		00/03/2021	Owner
	LTDA			
21	Banco Central Do	forecasted inflation rate taken from Banco		Publicly
	Brazil	Central Do Brazil.		available
		nttps://www.bcb.gov.br/en/monetarypolicy/hist		

22	SERTAO I SOLAR ENERGIA SPE LTDAGPG	Minutes of meetings (LSC)	22/01/2017	Project Owner
23	TUST	TUST Charges <u>TUST 2014-2015 (R\$kW)</u> ⁷		Project Owner
24	Banco central do Brasil	Review Of COPOM Meetings and Short-Term Interest Rates <u>https://www.bcb.gov.br/en/legacy?url=https:%2</u> <u>F%2Fwww.bcb.gov.br%2FPec%2FCopom%2</u> FIngl%2FtaxaSelic-i.asp		Publicly available
25	TFSEE	TFSEE (Electric Energy Services Inspection Fee) <u>https://www.planalto.gov.br/ccivil_03/_Ato2011</u> -2014/2013/Lei/L12783.htm		Project Owner
26	Tax foundation	Corporate Tax Rates around the World, 2015 <u>https://taxfoundation.org/data/all/global/corpora</u> te-income-tax-rates-around-world-2015/		Publicly available
27	EY	Worldwide VAT, GST and Sales Tax Guide 2015 https://assets.ey.com/content/dam/ey-sites/ey- com/en_gl/topics/tax/guides/worldwide-vat-gst- and-sales-tax-guide-2015.pdf	2015	Project Owner
28	Delloitte	International tax, Brazil highlights, 2017 https://www.iberglobal.com/files/2017- 2/brasil_deloitte.pdf		Publicly available
29	National Technical Regulation on Industrial Effluent	No 26 National Technical regulation on industrial wastewater (QCVN40:2011/BTNMT) http://vea.gov.vn/Documents/20210708%20Q CVN%20Nuoc%20thai%20cong%20nghiep.pd f		Publicly available
30	CÂMARA DE COMERCIALIZAÇ ÃO DE ENERGIA ELETRICA - CCEE	Marketing rules Reserve Energy Contracting Version 2023.3.0		Project Owner
31	SERTAO and SOBRAL I SOLAR ENERGIA SPE LTDAHanbaram Wind Power Joint Stock Company	Tariff Percentage for generation exceeding guaranteed generation. https://www.ccee.org.br/documents/80415/919 404/18%20- %20Contrata%C3%A7%C3%A30%20de%20E nergia%20de%20Reserva_2023.3.0_2023- JAN.pdf/8831d05d-9bab-f9ea-73e5- 09bd10680a7a		Project Owner
32	Presidency of the Republic Civil House Sub-Chief for Legal	Labour Act - 2 Law Decree No. <u>5452/1943.</u> Labor Laws Consolidation.		Publicly available

⁷ <u>https://drive.google.com/file/d/1r1ILDZWW5ByD3IntJiDu4Yw4xcFwEX-X/view</u>

	Affairs			
33	The National Electric Energy Agency	Law nº 9.427,1996: The National Electric Energy Agency (ANEEL); <u>https://www.oecd-ilibrary.org/sites/5a130109-</u> <u>en/index.html?itemId=/content/component/5a1</u> <u>30109-en</u>	Publicly available	
34	National Electric Power Agency (Brazil)	Law nº 9.648,1998: The National Electric System Operator (ONS) <u>https://latinlawyer.com/insight/ll-</u> <u>regulators/regulators/organization-</u> profile/national-electric-power-agency-brazil	Publicly available	
35	UN environment programme	Law nº 10.848,2004: Provides for the commercialization of electricity <u>https://leap.unep.org/countries/br/national-</u> <u>legislation/law-no-10848-commercialization-</u> <u>electric-energy</u>	Publicly available	
36	SEC	Decree nº 6.353, 2008: Regulates the contracting of reserve energy through auctions https://www.sec.gov/Archives/edgar/data/1499 505/000095012311002460/y87804exv10w23.h tm	Publicly available	
37	Presidency of the Republic Civil House, Sub-Chief for Legal Affairs	Law no. 9.074,1995: The Brazilian Electricity Act, does not influence the choice of fuel and technology used for power generation <u>https://www.planalto.gov.br/ccivil_03/leis/l9074</u> cons.htm	Publicly available	
38	SERTAO I SOLAR ENERGIA SPE LTDA	 List of employees Employee Salaries Employee training HR policy 	Project owner	
39	PWC	worldwide tax summaries https://taxsummaries.pwc.com/brazil/corporate /deductions	Publicly available	
40	Cen bank vows action	https://www.reuters.com/article/us-brazil- economy-inflation-idUSKBN0UM2IO20160108	Publicly available	
41	Canadian Solar Panels: An Independent Review by Solar Choice	Annual Degradation https://www.solarchoice.net.au/products/panels//www.solarchoice.net.au/products/panels//www.solar-Review/	Publicly available	
42	Banco Central do Brazil	Annual Escalation https://www.bcb.gov.br/en/monetarypolicy/hist oricalpath	Publicly available	
43	Banco Central Do Brazil	Inflation rate <u>https://www.bcb.gov.br/en/monetarypolicy/hist</u> <u>oricalpat</u> h	Publicly available	
44	EY	Worldwide Corporate Tax Guide https://assets.ey.com/content/dam/ey-sites/ey-	Project owner	
45	GCC	Global Stakeholder consultation on GCC projects	Publicly available	
		https://www.globalcarboncouncil.com/global-		
----------	----------------	--	------------	---------
		stakeholders-consultation/		
46	Dados por	Date of Auction	28/08/2015	Project
40	Empreendimento	Date of Addition	20/00/2013	owper
47				
47	SERIAO and	sales revenue reports of Sertao solar power		Project
	SOBRALISOLAR	plant		owner
	ENERGIA SPE			
	LTDA	sales revenue reports of Sobral solar power		
		plant		
48	Statista	https://www.statista.com/statistics/270812/infla		public
		tion-rate-in-brazil/		
49	PO	scholarships for educational universities		Project
				owner
B01	GCC	1. GCC Project Standard, version 3.1		Others
		2. GCC Verification Standard, version 3.1		
		3. GCC Program Manual, version 3.1		
		4.Environment-and-Social-Safeguards		
		Standard, version 2		
		5. Project-Sustainability-Standard, version 2		
		6. GCC clarification no. 1		
B02	UNECCC	CDM Methodology: ACM0002: Grid-		Others
DUL		connected electricity generation from		Caloro
		renewable sources version 21		
B03	GCC	PSE template V3 2- 2020		Others
B04		Methodological tool 01: Tool for the		Others
D04	UNFCCC	demonstration and accomment of additionality		Others
		Version 07		
DOF		Methodological tool 07: Tool to		Othoro
B02	UNFCCC	Wethodological tool 07: 1001 to		Others
		calculate the emission lactor for an electricity		
_		system, version 07		
B06	UNFCCC	Methodological tool 27: Investment		Others
		analysis, version 11		
B07	UNFCCC	Methodological tool 24: Common		Others
		practice, version 3.1		

Appendix 4. Clarification request, corrective action request and forward action request

Table 1. CLs from this verification

CL ID	01	Section no.	D.2	Date: 29/04/2023	
Description	of CL				
During the c	onsite visit, project ve	rification team	has observed that the total	capacity mentioned in the	
PSF is not in	n line with the actual s	cenario. PO is	requested to clarify the same	Э.	
Project Ow	Project Owner's response Date: 05/07/2023				
The capacity	/ for both DC and AC	has been noted	d, and it is consistent with the	e capacity shown on-site.	
Documenta	tion provided by the	Project Owne	r		
Updated PS	F				
GCC Emiss	ion Reduction Verifi	er's assessme	ent	Date: 16/07/2023	
PO has updated the PSF accordingly. The same is found acceptable by the GCC VVB. Hence CL 01 is					
closed.					
• In section A.2, name of project activities given are same. PO is requested to check and clarify					
the same.					
Project Ow	ner's response			Date: 26/07/2023	
The project activities name mentioned in section A.2 of the PSF has been updated.					
Documentation provided by the Project Owner					
Updated PS	F.				
GCC Emiss	ion Reduction Verifi	er's assessme	ent	Date: 22/08/2023	
PO has upda	ated the PSF accordir	ngly. The same	is found acceptable by the C	GCC VVB. Hence CL 01 is	
closed.					

CL ID	CL ID 02 Section no. D.3.5 Date: 29/04/2023						
Description of CL							
As per paragraph 10 of CDM Methodological tool: TOOL27: Investment analysis.							

"Input values used in all investment analysis shall be valid and applicable at the time of the investment decision taken by the project participant. The DOE is therefore expected to validate the timing of the investment decision and the consistency and appropriateness of the input values with this timing. The DOE should also validate that the listed input values have been consistently applied in all calculations."

Project owner is requested to clarify this, while doing so, please provide evidence for;

- 1. Actual project cost.
- 2. Supportive for energy yield assessment report for PLF considered for ER estimation and for Investment analysis.
- 3. Actual generation for last one year.
- 4. Source of annual degradation factor.
- 5. The basis of tariff calculation, depreciation, insurance and overheads considered in the DPR.
- 6. Weblink/reference for VAT on O&M, ONS/CCE, social contribution CSCC

Project owner is requested to provide evidence/supportive documents on common practice analysis.

Project Owner's response

Date: 05/07/2023

The investment decision date of the project is 19/12/2016, which is the date of signing of the EPC contract. The value considered were available and applicable at the time of investment decision date and Input parameters are sourced from the EPE document and PPA. Input values used in the investment analysis are valid and applicable at the time of the investment decision (signing of the EPC contract).

- 1. The actual project cost has been provided and addressed in section B.5 for the sensitivity analysis.
- 2. PLF has been calculated from the Net generation mentioned in EPE Documents.
- 3. Project owner has provided the document of actual generation for last one year and mentioned in section B.5 for sensitivity analysis.
- 4. The degradation factor has been sourced from the link "https://www.solarchoice.net.au/products/panels/Canadian-Solar-Review/".
- 5. The tariff value is considered from the PPA document available at the time of investment decision. Also, the depreciation has been considered from the available Brazilian source at the time of investment decision making.
- 6. The Weblink/reference for VAT on O&M and social contribution CSCC are provided in the IRR. ONS has been removed from IRR input parameter as its included in the TUST (Tarifa de Uso do Sistema de Transmissão) fee as per the ANEEL regulation.

Documentation provided by the Project Owner

Updated PSF Updated IRR

_				
G	CC Emissior	Reduction	Verifier's	assessment

Date: 16/07/2023

- 1. The updation in section B.5 for the sensitivity analysis is found appropriate and hence the finding is closed.
- 2. The VVB found the response of PO appropriate and the finding is closed.
- 3. Project owner has provided the document of actual generation for last one year and mentioned in section B.5 for sensitivity analysis. Hence the finding is closed.
- 4. Source of the value provided by the PO is found appropriate and hence the finding is closed.
- 5. The justification provided by the PO is found suitable by the GCC VVB. Hence the finding raised is closed.
- 6. The VVB found the changes made by the PO appropriate. So, the finding is closed.

CL ID	03	Section no.	D.3.1	Date: 29/04/2023		
Descri	ption of CL					
1.	1. The latest version of the methodology ACM0002 version 21 is available. Project owner is requested to use the latest version of the methodology ACM0002, version 21.					
2.	2. As per latest version of Tool 27 (Investment Analysis version-12.0) available. Project owner is requested use the latest version or provide justification/clarification regarding the use of old version.					
Project Owner's response Date: 05/07/2023						
 The latest version of the methodology ACM0002 version 21.0 has been used consistently throughout the PSF. The project owner has used the latest tool 27 version 12.0 and applied throughout the PSF. 						
Documentation provided by the Project Owner						
Updated PSF.						
GCC Emission Reduction Verifier's assessment Date: 16/07/2023						
PO has closed.	PO has updated the PSF accordingly. The same is found acceptable by the GCC VVB. Hence CL 03 is closed.					

Description of CAR Project owner is requested to justify how sustainable development goals 5 and 9 is applicable to the project activity. Further, PO is requested to justify how the same is inline with the Project Sustainability Standard version 3.1 requirements.

Further, PO is requested to provide supportive documents/evidence related to SDG monitoring.

Section no. D.12

04

CL ID

Date: 29/04/2023

SDC 5 which focusos on achieving			Date: 05/07/2023
SDG 5, WHICH IOCUSES ON ACHIEVING (gender equal	ity and empowering wor	nen, is relevant to this project
activity as there are women involved	in the decisi	on-making processes of	the company, which is in line
with the Project Sustainability Standa	ard. Whereas	, SDG 9 does not contril	bute to the project activity.
Hence, it has been removed.			
The LOA has been signed by a fema	ile employee,	demonstrating the fulfili	ment of SDG 5.
Documentation provided by the Pr	oject Owner	•	
Updated PSF			
LOA Document			
GCC Emission Reduction Verifier's	s assessme	nt	Date: 16/07/2023
VVB found the justification and the ch	hanges suital	ble. But LOA is not yet p	rovided. It's not in the GCC
site also. Hence CL 04 remain open.			
Project Owner's response			Date: 26/07/2023
LOA document has been provided.			
Documentation provided by the Project Owner			
LOA Document			
GCC Emission Reduction Verifier's assessment Date: 22/08/2023			
PO has updated the PSF accordingly	/. The same i	s found acceptable by the	ne GCC VVB. Hence CL 04 is
closed.			
CL ID 05 S	Section no.	D.6	Date: 29/04/2023
Description of CL			
Project Owner is requested to provid	de supportive	documents/evidence as	per paragraph 73 of the GCC
PSF Filling instructions viz. minutes	of the meet	ing, invitation details, fe	edback forms, photograph etc
related to Local stakeholder consulta	ation.		
Project Owner's response			Date: 05/07/2023
The supporting documents/evidence	e for the LSC	have been provided in a	accordance with the PSF filing
guidelines.			
	roject Owne	r	
Documentation provided by the P			
Documentation provided by the P Updated PSF.		•	
Documentation provided by the P Updated PSF. GCC Emission Reduction Verifier	's assessme	nt	Date: 16/07/2023
Description of CL Project Owner is requested to provid PSF Filling instructions viz. minutes related to Local stakeholder consulta Project Owner's response The supporting documents/evidence guidelines.	de supportive of the meet ation. of for the LSC	documents/evidence as ing, invitation details, fer have been provided in a	per paragraph 73 of the GCC edback forms, photograph etc Date: 05/07/2023 accordance with the PSF filing

finding CL 05 is closed.

CL ID	06	Section no.	D.10/ D.11	Date: 29/04/2023	
Description	of CAR				
Project own	er is requested to jus	tify why solid w	aste pollution from E-waste,	solid waste from batteries	
are not con	sidered in the impa	act identificatio	n. Further, PO is request	ed to provide supportive	
documents/e	vidence related to E-	+/S+ monitoring	1.		
Project Own	ier's response			Date: 05/07/2023	
Solid waste f	from batteries has be	en addressed ii	n solid waste pollution from t	he E-waste and the has	
been provide	ed.				
Documentat	tion provided by the	Project Owne	r		
Updated PS	_				
ER Sheet	ER Sheet				
Hazardous V	Vastes Handling				
EIA Report					
Actual net generation					
List of Emplo	List of Employees				
HR Policy					
EMP Report					
Employee Tr	Employee Training				
GCC Emissi	on Reduction Verifi	er's assessme	ent	Date: 16/07/2023	
PO has upda	ated the PSF. solid wa	aste pollution fr	om E-waste, solid waste fror	n batteries is considered	

in the impact identification. VVB found it appropriate. Hence CL 06 is closed.

Table 2. CARs from this Project Verification

CAR I	01	Section no.	D.1/D.2	Date: 29/04/2023	
Descri	ption of CAR		•		
1.	The latest version of PSF	√4 is available	. Project owner is requested	to use the latest template.	
2.	In section A.1 of the PSF t	he AC capacit	y and DC capacity needs to	be specified.	
3.	The sustainability develop	ment indicator	to be inline with the E+, S+ a	and SDG.	
4.	The power purchase agen	cy for project	activity 2 is not inline with t	he actual power purchase	
	agency				
5.	The capacity mentioned i	n section A.1	of the PSF is not inline with	n the name plate capacity	
	observed during the site vi	sit.			
6.	Technical specification of the components mentioned in section A.3. for the project 2 is not inline				
	with the actual details obse	erved during th	ne site visit.		
7.	PO is requested to incorpo	rate the require	ements of para 9 of the PSF f	illing guidelines/instruction	
	in section A.3 of PSF.				
Projec	t Owner's response			Date: 05/07/2023	
1.	The project owner has alre	eady used the	latest version of the PSF v.4	template.	
2.	The AC and DC capacity h	as been spec	ified in the section A.1 of the	PSF.	
3.	The sustainability develop	ment indicator	is inline with the E+, S+ and	SDGs.	
4.	In power purchase agency	is in line with	the actual power purchase a	igency and same has	
_	been mention in section A.	1 of the PSF.			
5.	The section A.1 has been	modified and i	nline to the name plate capa	city observed during the	
C	Site Visit.	untion and in the	anotion A 2 for the project 2	has been restified and in	
0.	line with the on site details	ntionea in the	section A.3 for the project 2	has been rectilied and in	
7	INE WITH THE ON-SITE DETAILS.				
7.	'. Section A.3 of the PSF is in-line with the requirements of the para 9 of the PSF filling				
Docum	guideline/instruction.	Project Owne	۲ ۳		
Undate	ad PSE				
GCCE	mission Reduction Verifie	r's assossme	ant	Date: 16/07/2023	
1	PO had used the latest ten	nolate Hence	the finding is closed	Date: 10/07/2023	
2	AC and DC canacity has h	een specified	in the section $\Delta 1$ of the PSF	VVB found it	
۷.	appropriate Hence the fin	dina is closed			
3	UN level target of SDG 13	is not in line w	with the project sustainability	standard V3.1 so the	
0.	finding remains open.				
4.	The updation made in the	section A.1 of	the PSF is found appropriate	And hence the finding is	
	closed.				
5.	The modification made in t	he section A.1	is found suitable by the PO.	So, the finding is closed.	
6.	Technical specification mentioned in the section A.3 of the PSF is found suitable by the GCC				
	VVB. And the finding is closed.				
7.	7. The VVB found that the Section A.3 of the PSF is in-line with the requirements of the para 9 of				
	the PSF filling guideline/ins	struction. and I	hence the finding is closed.		
Projec	t Owner's response			Date: 16/07/2023	
The SE	Gs 13 has been updated as	s per the proje	ct sustainability standard ver	rsion 3.1.	
Docum	nentation provided by the	Project Owne	r		
Update	d PSF.				
· · ·					
GCC F	mission Reduction Verifie	r's assossme	ant	Date: 22/08/2023	

 PO has updated the PSF accordingly. The same is found acceptable by the GCC VVB.

 Hence CAR 01 is closed.

Description Under section Project owner v3.1. Project Owner According to B.5 of the PS Documenta Updated PS GCC Emiss The PO has the VVB four CAR ID Description Project owner and circumst guidelines. Project Owner The project of per PSF fillin Documenta Updated PS GCC Emiss The PO has	of CAR on B.5 of the PSF the pris requested to com the GCC project stat SF. tion provided by the F ion Reduction Verifi demonstrated the leg nd it proper. Hence the 03 of CAR er is requested to de cances are taken into the first response owner has addressed by guideline.	e legal requirer apply to the requirer andard V.3.1, the Project Owne ier's assessme gal requirement the CAR 02 is clo Section no. escribe how the account as per	ment is not demonstrated rement of paragraph 16 (b) e legal requirement has bee er ent test according to the GCC osed. D.3.4 relevant national and/or s paragraph 27 under Section	with supportive documents. of the GCC project standard Date: 05/07/2023 en demonstrated in section Date: 16/07/2023 project standard V.3.1 and Date: 29/04/2023 ectoral policies, regulations n B.4 of the GCC PSF Filling Date: 05/07/2023
Under section Project owner v3.1. Project Owner According to B.5 of the PS Documenta Updated PS GCC Emiss The PO has the VVB four CAR ID Description Project owner and circumst guidelines. Project Owner The project of per PSF fillin Documenta Updated PS GCC Emiss The PO has	on B.5 of the PSF ther is requested to comper's response the GCC project states of the GCC project states of the GCC project states of provided by the ference of the leg of Reduction Verific demonstrated the leg of CAR of CAR of CAR of CAR of CAR of car is requested to de cances are taken into oner's response owner has addressed of guideline.	e legal requirer apply to the requirer andard V.3.1, the Project Owne ier's assessme gal requirement the CAR 02 is clo Section no. escribe how the account as per	ment is not demonstrated rement of paragraph 16 (b) e legal requirement has bee er ent test according to the GCC osed. D.3.4 relevant national and/or s paragraph 27 under Section	with supportive documents. of the GCC project standard Date: 05/07/2023 en demonstrated in section Date: 16/07/2023 project standard V.3.1 and Date: 29/04/2023 ectoral policies, regulations n B.4 of the GCC PSF Filling Date: 05/07/2023
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CAR ID Description Project own and circumst guidelines. Project Own The project o per PSF fillin Documenta Updated PS GCC Emiss	03 of CAR er is requested to de ances are taken into ner's response owner has addressed og guideline. tion provided by the	Section no.	D.3.4 relevant national and/or s paragraph 27 under Sectio	Date: 29/04/2023 ectoral policies, regulations n B.4 of the GCC PSF Filling Date: 05/07/2023
CAR ID Description Project own and circumst guidelines. Project Own The project of per PSF fillin Documentar Updated PS GCC Emiss	03 of CAR er is requested to de ances are taken into ner's response owner has addressed og guideline. tion provided by the	Section no.	D.3.4 relevant national and/or s paragraph 27 under Sectio	Date: 29/04/2023 eectoral policies, regulations n B.4 of the GCC PSF Filling Date: 05/07/2023
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and circumst guidelines. Project Owr The project of per PSF fillin Documenta Updated PS GCC Emiss	ances are taken into ner's response owner has addressed og guideline. tion provided by the	account as per	paragraph 27 under Sectio	n B.4 of the GCC PSF Filling Date: 05/07/2023
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Documenta Updated PS GCC Emiss	tion provided by the		-	
Updated PS GCC Emiss		Project Owne	er	
GCC Emiss	F.			
The DO hee	ion Reduction Verifi	ier's assessme	ent	Date: 16/07/2023
The FO has	updated the PSF acc	cording to the pa	aragraph 27 under Section	B.4 of the GCC PSF Filling
guidelines. T	he changes in the PS	SF found appro	priate by the VVB. So, the	CAR 03 is closed.
CAR	04	Section no.	D.3.7	Date: 29/04/2023
Description	of CAR			
1. Proje	ect owner needs to c	omplete sectior	n B.7.1 of the PSF complying	ng paragraph 38, 39 and 40
of th	e instructions to comp	olete the PSF. V	Vhile doing so, Project owne	er needs to provide complete
infor	mation for all the m	onitoring equip	ment (e.g. monitoring inst	rument type, make, model,
loca	tion, calibration frequ	ency, accuracy	class, etc.) along with evid	ence.
2. The	monitoring plan and	d metering plar	n mentioned in the PSF is	s not inline with the actual
arra	ngements observed a	at the site. Proj	ect owner is requested to	make the monitoring details
cons	sistent in section B.7.	1 and B.7.5.		
Project Owr	ner's response			Date: 05/07/2023
1. All o	1. All of the monitoring technology and the supporting evidence have been addressed in			
acco	accordance with the section B.7.1 requirements.			
2. The	2. The monitoring and metering plans have been addressed and are consistent with the onsite			
plan and monitoring details in Sections B.7.1 and B.7.5 of the PSF.				
Documenta	tion provided by the	e Project Owne	er (
Updated PS	F.			
GCC Emiss	ion Reduction Verif	ier's assessme	ent	Date: 16/07/2023
The changes	made in the PSF is	found appropria	ate by the VVB and hence	CAR 04 is closed.
CAR	05	Section no.	D.3.7	Date: 29/04/2023
Description	of CAR			
In section A.	5 of the PSF, Project	owner is reque	sted to provide a confirmat	ion w.r.t. para 15 of the PSF
Description In section A.	of CAR 5 of the PSF, Proiect	owner is reque	sted to provide a confirmat	ion w.r.t. para 15 of the PSF

filling guidelines.

Project Oursenle recordence	Data: 05/07/0000
Project Owner's response	Date: 05/07/2023
nost country attestation on double counting approval will be submitted in t	later stages, when required to
meet the CORSIA requirements.	
Documentation provided by the Project Owner	
Updated PSF	
GCC Emission Reduction Verifier's assessment	Date: 16/07/2023
The justification provided by the PO is found suitable by the GCC VVB. S	o, the CAR 05 is closed.
CAR ID 06 Section no. D.1	Date: 29/04/2023
Description of CAR	
Background: requirements of paragraph 29 and 30 of the GCC project st	andard version 3.1.
 Project owner is requested to provide the subsection of the type of basic information section of the PSE 	project standard in the section
2 GCC Clarification po 1 v1 2 and GCC Standard on Avoidance of E	ouble Counting v1.0 needs to
be included in applicable rules and requirement for the Project O	where of the Basic Information
Section of the PSF. Further, the same need to be applied in the F	
Project Owner's response	Date: 05/07/2023
1 The type of the project activity of subtype have been mentioned in	n the basic information
1. The type of the project activity of subtype have been mentioned in	
2 GCC elevification no 1 v 1 2 and avoidance of double counting v	1.0 have been mentioned in
2. GOC claimcation no. 1 v. 1.5 and avoidance of double counting v.	ion of the DSE
applicable fulle and requirement and in the basic information sect.	
Opulied PSF	Dete: 10/07/2022
GCC Emission Reduction Verifier's assessment	Date: 16/07/2023
The PO has updated the PSF according to the requirements of paragraph	29 and 30 of the GCC
project standard version 3.1. and the GCC VVB found it suitable. So, the C	CAR 06 is closed.
	Date: 00/04/0000
CAR ID 07 Section no. D.13/D.14	Date: 29/04/2023
CAR ID 07 Section no. D.13/D.14 Description of CAR	Date: 29/04/2023
CAR ID 07 Section no. D.13/D.14 Description of CAR Project owner has opted for CORSIA with respect to project activity. As A 6 of the CCC RSE Filling instructions CORSIA requirement project activity.	Date: 29/04/2023
CAR ID 07 Section no. D.13/D.14 Description of CAR Project owner has opted for CORSIA with respect to project activity. As A.6 of the GCC PSF Filling instructions CORSIA requirement project owner the section. Description of CAR	Date: 29/04/2023
CAR ID 07 Section no. D.13/D.14 Description of CAR Display and the construction of the CORSIA with respect to project activity. As A.6 of the GCC PSF Filling instructions CORSIA requirement project owner Attestation on Double Counting. However, the section H of the PSF states is not found expression.	Date: 29/04/2023
CAR ID07Section no.D.13/D.14Description of CARProject owner has opted for CORSIA with respect to project activity. As A.6 of the GCC PSF Filling instructions CORSIA requirement project owner Attestation on Double Counting. However, the section H of the PSF states is required. Therefore, the same is not found appropriate.Project Optimized States	Date: 29/04/2023 per paragraph 16.c of section er needs to get a Host Country s that no host country approval
CAR ID07Section no.D.13/D.14Description of CARProject owner has opted for CORSIA with respect to project activity. As A.6 of the GCC PSF Filling instructions CORSIA requirement project owner Attestation on Double Counting. However, the section H of the PSF states is required. Therefore, the same is not found appropriate.Project Owner's response	Date: 29/04/2023 per paragraph 16.c of section er needs to get a Host Country s that no host country approval Date: 05/07/2023
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Document	ation provided by the	Project Owne	r		
Updated P	SF.	-			
GCC Emis	sion Reduction Verifi	er's assessme	ent	Date: 16/07/2023	
The PO ha	s updated the PSF acc	ordingly. The G	SCC VVB found the changes	appropriate. Hence the	
CAR 00 15 0					
CAR ID	09	Section no.	D.8	Date: 29/04/2023	
Descriptio	n of CAR				
Project Ow	ner is requested to pro	vide the contac	t information for each Project	ct Owner in appendix 1 as	
per paragra	aph 4 of section A4 of t	he GCC PSF F	illing instruction.		
Project Ov	vner's response			Date: 05/07/2023	
The contra	ct information has beel	n provided for th	he appendix 1 as per the sec	tion A4 of the GCC PSF	
filling instru	iction.				
Document	ation provided by the	Project Owne	r		
Updated P	SF				
GCC Emission Reduction Verifier's assessment Date: 16/07/2023					
Address of NATURGY COMMODITIES TRADING, S.A. ("NCT") is not provided in appendix 1. Hence					
the finding remains open.					
• PC	 PO is requested to clarify why the name of Kosher climate is not mentioned anywhere in the 				
PSF, especially in the section A.4 of PSF.					
 Sign and seal of the focal point is not given in the basic information section. PO is requested to 					
	correct the same.				
Project Ov	vner's response			Date: 26/07/2023	
The addres	The address of NATURGY COMMODITIES TRADING, S.A. ("NCT") has been updated.				
	Sher climate is not a lo	cal point of the	SERIAU and SUBRAL I SU	ar PV Project by GPG	
INA 0.00	NATURGY hence the Kosher Climate India Private Limited name will not be mentioned in				
Sec	section A.4 of the PSF.				
Documont	Ihe PSF has been signed and sealed by the project owner in the basic information section.				
Lindated P	SE	Froject Owne			
GCC Emic	sion Poduction Varifi	or'e secocomo	nt	Date: 22/08/2023	
PO has up	dated the PSF accordin	aly The same	is found accentable by the G	CC V/B Hence CAR 09	
is closed		igiy. The same	is round acceptable by the C	CO VVD. Hence CAIL 09	
IS CIOSEG.					

DOCUMENT HISTORY

Version	Date	Comment
V 3.1	31/12/2020	 The name of GCC Program's emission units has been changed from "Approved Carbon Reductions" or ACRs to "Approved Carbon Credits" or ACCs.
V 3.0	23/08/2020	 Revised version released on approval by the Steering Committee as per the GCC Program Process; Revised version contains the following changes: Change of name from Global Carbon Trust (GCT) to Global Carbon Council (GCC); Considered and addressed comments raised by the Steering Committee:
V 2.0	25/06/2019	 Revised version released for approval by the GCC Steering Committee. This version contains details and information to be provided, consequent to the latest worldwide developments (e.g., CORSIA EUC).
v1.0	01/11/2016	 Initial version released for approval by the GCC Steering Committee under GCC Program Version 1

⁸See ICAO recommendation for conditional approval of GCC at <u>https://www.icao.int/environmental-protection/CORSIA/Documents/TAB/Excerpt_TAB_Report_Jan_2020_final.pdf</u>



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