GLOBAL CARBON COUNCIL

Driving Climate Actions

Project Verification Report

V3.1 - 2020

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CONTENTS

COVER PAGE 5

1. PROJECT VERIFICATION REPORT 11

SECTION A. EXECUTIVE SUMMARY 11

SECTION B. PROJECT VERIFICATION TEAM, TECHNICAL REVIEWER AND APPROVER 14

B.1. PROJECT VERIFICATION TEAM 14

B.2. TECHNICAL REVIEWER AND APPROVER OF THE PROJECT VERIFICATION REPORT 14

SECTION C. MEANS OF PROJECT VERIFICATION 14

C.1.DESK/DOCUMENT REVIEW 14

C.2. ON-SITE INSPECTION 15

C.3. INTERVIEWS 15

C.4. SAMPLING APPROACH 17

C.5. CLARIFICATION REQUEST (CLS), CORRECTIVE ACTION REQUEST (CARS) AND FORWARD ACTION REQUEST (FARS) RAISED 18

SECTION D. PROJECT VERIFICATION FINDINGS 18

D.1. IDENTIFICATION AND ELIGIBILITY OF PROJECT TYPE 18

D.2. GENERAL DESCRIPTION OF PROJECT ACTIVITY 20

D.3. APPLICATION AND SELECTION OF METHODOLOGIES AND STANDARDIZED BASELINES 24

D.3.1 APPLICATION OF METHODOLOGY AND STANDARDIZED BASELINES 24
D.3.2 CLARIFICATION ON APPLICABILITY OF METHODOLOGY, TOOL AND/OR STANDARDIZED BASELINE 34
D.3.3 PROJECT BOUNDARY, SOURCES AND GHGS 34
D.3.4 BASELINE SCENARIO 34
D.3.5 DEMONSTRATION OF ADDITIONALITY 36
D.3.6 ESTIMATION OF EMISSION REDUCTIONS OR NET ANTHROPOGENIC REMOVAL 49
D.3.7 MONITORING PLAN 50

D.4. START DATE, CREDITING PERIOD AND DURATION 55

D.5. ENVIRONMENTAL IMPACTS 55

D.6. LOCAL STAKEHOLDER CONSULTATION 56

D.7. APPROVAL AND AUTHORIZATION- HOST COUNTRY CLEARANCE 56

D.8. PROJECT OWNER- IDENTIFICATION AND COMMUNICATION 56

D.9. GLOBAL STAKEHOLDER CONSULTATION 57

D.10. ENVIRONMENTAL SAFEGUARDS (E+) 57

D.11. SOCIAL SAFEGUARDS (S+) 61

D.12. SUSTAINABLE DEVELOPMENT GOALS (SDG+) 62

D.13. AUTHORIZATION ON DOUBLE COUNTING FROM HOST COUNTRY (FOR CORSIA) 63

D.14. CORSIA ELIGIBILITY (C+) 63

SECTION E. INTERNAL QUALITY CONTROL 64

SECTION F. PROJECT VERIFICATION OPINION

Appendix 1. Abbreviations 66
Appendix 2. Competence of team members and technical reviewers 67
Appendix 3. Document reviewed or referenced 70
Appendix 4. Clarification request, corrective action request and forward action request 75

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 Ltd. /GCCV004/01 http://globalcarboncouncil.com/wp-content/uploads/2021/10/carbon-check-india-private-limited-ccipl.pdf
Type of Accreditation	☐ Individual Track[1] ☒ CDM Accreditation ☒ ISO 14065 Accreditation (28/06/2021 to 27/06/2024) https://nabcb.qci.org.in//accreditation/ghg/ghg004.php UNFCCC (15/04/2019 to 01/06/2024) https://cdm.unfccc.int/DOE/list/DOE.html?entityCode=E-0052
Approved GCC Scopes and GHG Sectoral scopes for Project Verification	Scope 1 - Energy industries (renewable / non-renewable sources)
Validity of GCC approval of Verifier	15/04/2019 to 01/06/2024
Title, completion date, and Version number of the PSF to which this report applies	Inner Mongolia Guyang Hongnijing 100MW wind power project, Version 5.0 Dated, 14/11/2023
Title of the project activity	Inner Mongolia Guyang Hongnijing 100MW wind power project
Project submission reference no. (as provided by GCC Program during GSC)	S00749

[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 (Tick applicable project type)	☒ **Type A:** ☐ Type A1 ☒ Type A2 ☒ Sub-Type 1 ☐ Sub-Type 2 ☐ Sub-Type 3 ☐ Sub-Type 4 ☐ **Type B – De-registered CDM Projects:** ☐ Type B1 ☐ Type[3] B2
Date of completion of Local stakeholder consultation	01/12/2015
Date of completion and period of Global stakeholder consultation. Have the GSC comments been verified. Provide web-link.	Date of Completion: 05/01/2023 22/12/2022 – 05/01/2023 No comments were received. https://www.globalcarboncouncil.com/global-stakeholders-consultation-7/
Name of Entity requesting verification service (can be Project Owners themselves or any Entity having authorization of Project Owners)	China Onecarbon Co., Ltd
Contact details of the representative of the Entity, requesting verification service (Focal Point assigned for all communications)	Siyuan LIU China Onecarbon Co., Ltd 203, 1f, No. 191, Liyuan North Street, Tongzhou District, Beijing/China/101101 Email: 437213329@qq.com
Country where project is located	P.R.China

[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 B_2.

GPS coordinates of the Project site(s)	No.	Coordinate	Coordinate
	MY01	N41°24′1″, E109°42′39″	N41.4002, E109.7108
	MY02	N41°24′21″,E109°42′42″	N41.4058,E109.7117
	MY03	N41°25′16″,E109°41′59″	N41.4211,E109.6997
	MY04	N41°24′30″,E109°43′37″	N41.4083,E109.7269
	MY05	N41°24′20″,E109°44′14″	N41.4056,E109.7372
	MY06	N41°24′3″,E109°44′3″	N41.4008,E109.7342
	MY07	N41°23′55″,E109°43′35″	N41.3986,E109.7264
	MY08	N41°23′44″,E109°43′46″	N41.3956,E109.7294
	MY09	N41°23′28″,E109°43′41″	N41.3911,E1109.7281
	MY10	N41°23′31″,E109°44′38″	N41.3919,E109.7439
	MY11	N41°25′10″,E109°43′33″	N41.4194,E109.7258
	MY12	N41°25′19″,E109°43′7″	N41.4219,E109.7186
	MY13	N41°25′36″,E109°42′46″	N41.4266,E109.7128
	MY14	N41°23′44″,E109°42′9″	N41.3956,E109.7025
	MY15	N41°23′25″,E109°42′28″	N41.3903,E109.7078
	MY16	N41°23′39″,E109°43′15″	N41.3903,E109.7208
	MY17	N41°23′27″,E109°43′40″	N41.3908,E109.7277
	MY18	N41°22′60″,E109°43′3″	N41.3833,E109.7175
	MY19	N41°22′34″,E109°43′5″	N41.3761,E109.7181
	MY20	N41°22′41″,E109°43′31″	N41.3781,E109.7252
	MY21	N41°22′15″,E109°43′8″	N41.3708,E109.7189
	MY22	N41°22′7″,E109°43′27″	N41.3686,E109.7242
	MY23	N41°22′25″,E109°43′31″	N41.3736,E109.7253
	MY24	N41°22′20″,E109°43′55″	N41.3722,E109.7319
	MY25	N41°22′7″,E109°44′8″	N41.3686,E109.7356
	MY26	N41°23′45″,E109°41′46″	N41.3958,E109.6961
	MY27	N41°23′27″,E109°42′2″	N41.3908,E109.7006
	MY28	N41°23′2″,E109°42′3″	N41.3839,E109.7008
	MY29	N41°22′44″,E109°41′59″	N41.3789,E109.6997
	MY30	N41°23′5″,E109°42′31″	N41.3847,E109.7086
	MY31	N41°22′50″,E109°42′26″	N41.3806,E109.7072
	MY32	N41°22′28″,E109°42′35″	N41.3744,E109.7097
	MY33	N41°22′21″,E109°41′58″	N41.3725,E109.6994
	MY34	N41°22′5″,E109°41′57″	N41.3681,E109.6992

	MY35	N41°23′39″,E109°40′56″	N41.3942,E109.6822
	MY36	N41°23′25″,E109°41′12″	N41.3903,E109.6867
	MY37	N41°23′8″,E109°41′5″	N41.3856,E109.6847
	MY38	N41°24′18″,E109°41′33″	N41.4050,E109.6925
	MY39	N41°24′27″,E109°41′16″	N41.4075,E109.6878
	MY40	N41°24′18″,E109°40′58″	N41.4050,E109.6828
	MY41	N41°24′54″,E109°41′9″	N41.4150,E109.6858
	MY42	N41°25′10″,E109°41′23″	N41.4194,E109.6897
	MY43	N41°25′9″,E109°40′56″	N41.4192,E109°40′56″
	MY44	N41°25′30″,E109°40′58″	N41.4250,E109°40′58″
	MY45	N41°25′47″,E109°40′59″	N41.4297,E109.6831
	MY46	N41°25′44″,E109°41′38″	N41.4289,E109.6939
	MY47	N41°25′25″,E109°41′22″	N41.4236,E109.6894
	MY48	N41°25′16″,E109°41′59″	N41.4211,E109.6997
	MY49	N41°25′3″,E109°42′17″	N41.4175,E109.7047
	MY50	N41°24′56″,E109°42′48″	N41.4156,E109.7133
Applied methodologies (approved methodologies of GCC or CDM can be used)	ACM0002 Grid-connected electricity generation from renewable sources (Version 21.0)		
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)
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 Ltd, certifies the following with respect to the GCC Project Activity "**Inner Mongolia Guyang Hongnijing 100MW wind power project**". ☒ The Project Owner has correctly described the Project Activity in the Project Submission Form (version 05, dated 14/11/2023) including the applicability of the approved methodology CDM Methodology ACM0002 Grid-connected electricity generation from renewable sources (Version 21.0) and meets the methodology applicability conditions 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 reductions estimates correctly and conservatively. ☒ The Project Activity is likely to generate GHG emission reductions amounting to the estimated 2,093, 670 tCO_2e for the entire crediting period of 10 years, 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 Sustainability Development Goals (SDGs), complies with the Project Sustainability Standard, and contributes to achieving a total of *3* 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 requirement of the GCC Program and ICAO's requirements on CORSIA Emissions Unit

[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.

	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 Project Activity complies with all the applicable GCC rules[5] and therefore recommends GCC Program to register the Project activity with above mentioned labels.
Project Verification Report, reference number and date of approval	CCIPL1379/GCC/VAL/IMWP/20230116 Project Verification Report, Version 1.0 Date: 22/11/2023
Name of the authorised personnel of GCC Project Verifier and his/her signature with date	 Vikash Kumar Singh, Compliance Officer Dated: 22/11/2023

[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: https://www.globalcarboncouncil.com/resource-centre.html

1. PROJECT VERIFICATION REPORT

Section A. Executive summary

>>
China One Carbon Co. Ltd has appointed the Project Verifier, Carbon Check (India) Private Ltd., to perform an independent project verification of the Project “Inner Mongolia Guyang Hongnijing 100MW wind power project” (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. China One Carbon Co. Ltd has been authorized by Inner Mongolia Huachen New Energy Co., Ltd, has developed and owns the “Inner Mongolia Guyang Hongnijing 100MW wind power project”.

The project activity is about installation and operation of wind power plant in the Hongnijing Xiang Shisanfenzi village, Guyang County, Baotou City, Inner Mongolia Autonomous Region in P.R. China which is invested and operated by Inner Mongolia Huachen New Energy Co., Ltd. The project involves installation and operation of 50 WTGs of 2 MW to produce a total capacity of 100 MW AC. The project activity is a green field project at site where no renewable power plant was operating prior to the implementation of the project activity. The aim of the project activity is to generate electricity from wind energy, which is a primary source of renewable energy, thus leads to generation of clean energy. This generated electricity is then supplied to North China Power Grid (NCPG) thus displaces the electricity which could have been generated from a carbon intensive fossil fuel-based power plants in the grid.

The project has already commissioned on 10/12/2016 and will generate emission reduction by generating the clean electricity from the wind energy and feed into North China Power Grid (NCPG). The average annual electricity supplied to grid will be of 253,196 MWh and the translating into emission reductions of around 209,367 tCO_2eq per year and 2,093,670 tCO_2e during the fixed 10-year crediting period.

The project also contributes to Environmental No-net-harm Label (E+), Social No-net-harm Label (S+) and 3 United Nations Sustainable Development Goals (SDG+).

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 Party 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 implemented in Hongnijing Xiang Shisanfenzi village, Guyang County,Baotou City, Inner Mongolia Autonomous Region in P.R. China.

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/. 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 also assess the claims and assumptions made in the PSF /1/ without limitation on the information provided by the project participant.

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 data-sampling 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. 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/ and ER /02/ and information from sources with all necessary means without limitations to the information provided by the project participant.

II. Follow-up interviews with project stakeholders
- Interviews with relevant stakeholders in host country with personnel having knowledge of 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 PO. 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 from the verification and all the raised findings are successfully resolved by the project owner. Hence confirms 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 "Inner Mongolia Guyang Hongnijing 100MW wind power project" in P.R.China as described in the final PSF (Version 05, dated 14/11/2023) /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" (Version 21.0) ;/B02/. 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 silver rating /B01-5/. Therefore, the project is being recommended to GCC Steering Committee for request for registration.

"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". Hence the project is being recommended to GCC Steering Committee for request for registration.

Section B. Project Verification team, technical reviewer and approver

>>

B.1. Project Verification team

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)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Project Verification findings
1.	Team Leader /Technical Expert	IR	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	Y	Y	Y	Y
4.	Trainee Assessor/Team Member	IR	A L	Hariprasath	CCIPL	Y	Y	Y	Y
5.	Local Expert	ER	Shen	Nara	CCIPL	Y	Y	Y	Y

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	ER	Chakraborty	Shivaji	CCIPL
2.	Financial Expert	ER	Chakraborty	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 03 dated 04/12/2022 /01/ and revised final PSF version 05 dated 14/11/2023/01/. 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: 25/06/2023				
No.	**Activity performed on-site**	**Site location**	**Date**	**Team member**
1.	Discussions and review of: • Project Design • Project Technology • 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.	Hongnijing Xiang Shisanfenzi village, Guyang County,Baotou City, Inner Mongolia Autonomous Region in P.R. China.	25/06/2023	Vijay Mathew – Team Leader/Technical Expert Hariprasath A L – Trainee Assessor Nara Shen – Local Expert

C.3. Interviews

No.	Interview			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Jinsong	Li	China Onecarbon Co., Ltd	25/06/2023	Project Description, Baseline identification, Project Boundary. project financing, Additionality, Baseline Calculation, Regulatory requirements, project status, Monitoring procedures & Calibration of meters, Operation and	Vijay Mathew – Team Leader/Technical Expert Hariprasath A L– Trainee Assessor Nara Shen – Local Expert
2.	Ming gang	Wang	China Onecarbon Co., Ltd			
3.	Quiung	Luo	Site Manager			
4.	Junping	Li	Govt. Officer of Guyang County			
5.	Gaosheng	Feng	Local villager			
6.	Yueging	Shi	Local stakeholder			
7	Yang	Lei	Local stakeholder			
8	Xianyu	Lin	Local stakeholder			

					Maintenance, Data recording, Emergency procedures, etc. Mode of Invitation for stakeholders meeting, Stakeholders meeting consultation, advantages and disadvantages of the project, employment generation status, Double counting of the carbon credits of the project activity, E+, S+, SDG+ and CORSIA aspects as per the PSF and GCC requirements Environment and social net harm, Do-no-harm analysis etc. The legal ownership of the project and the focal point relationship and ownership of ACC.	

C.4. Sampling approach

>>

No sampling approach has been required or undertaken as the proposed project activity is of wind energy technology and located in the same area. The 100% information regarding project design, specifications of equipment installed like WTGs, transformers and monitoring mechanism has been checked by the assessment team. A site visit/15/ has been undertaken by the team on 25/06/2023, where they have checked the on-going project implementation, technical details of WTGs, transformers, substation and verified the details mentioned in the PSF.

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

Areas of Project Verification findings	Applicable to Project Types	No. of CL	No. of CAR	No. of FAR
Green House Gas (GHG)				
Identification and Eligibility of project type	A_1, A_2, B_1, B_2	CL 01		
General description of project activity	A_1, A_2, B_1, B_2		CAR 03	
Application and selection of methodologies and standardized baselines	A_1, A_2, B_1, B_2			
- Application of methodologies and standardized baselines	A_1, A_2, B_1, B_2		CAR 04	
- Deviation from methodology and/or methodological tool	A_1, A_2, B_1, B_2			
- Clarification on applicability of methodology, tool and/or standardized baseline	A_1, A_2, B_1, B_2			
- Project boundary, sources and GHGs	A_1, A_2, B_1, B_2		CAR 05	
- Baseline scenario	A_1, A_2, B_1, B_2		CAR 06	
- Demonstration of additionality including the Legal Requirements test	A_1, A_2, B_1, B_2	CL 04	CAR 07	
- Estimation of emission reductions or net anthropogenic removals	A_1, A_2, B_1, B_2		CAR 08 CAR 12	
- Monitoring plan	A_1, A_2, B_1, B_2	CL 02	CAR 01 CAR 02	
Start date, crediting period and duration	A_1, A_2, B_1, B_2			
Environmental impacts	A_1, A_2, B_1, B_2		CAR 09	
Local stakeholder consultation	A_1, A_2, B_1	CL 03		
Approval & Authorization- Host Country Clearance	A_1, A_2, B_1, B_2			
Project Owner- Identification and communication	A_1, A_2, B_1, B_2		CAR 10	
Global stakeholder consultation	A_1, A_2, B_1			
Others (please specify)	A_1, A_2, B_1, B_2			
VOLUNTARY CERTIFICATION LABELS				
Environmental Safeguards (E^+)	A_1, A_2, B_1		CAR 11	
Social Safeguards (S^+)	A_1, A_2, B_1	CL 05		
Sustainable development Goals (SDG^+)	A_1, A_2, B_1	CL 06		
Authorization on Double Counting from Host Country (only for CORSIA)	A_1, A_2, B_1	CL 07		FAR 01
CORSIA Eligibility (C^+)				
Total		07	12	01

Section D. Project Verification findings

D.1. Identification and eligibility of project type

Means of Project Verification	Desk review and Interviews
Findings	CL 01 was raised and the finds were closed. Please refer appendix 4 for details
Conclusion	The GCC Project Verification team reviewed the PSF /1/ and confirms that the Project Owner determines the type of proposed GCC project activity as follows.

Parameters	Project Position	Verified Documents
Type of Project	Type A2, Subtype 1 These types of projects are prompt-start and had already	PSF/1/, Commissioning report /4/

			started their operations as of 5 July 2020.Their start date of operations shall be after 1 January 2016 but before 5 July 2022.These types of projects shall submit complete registration requests to the GCC Program no later than 5 July 2022. The start date of the Crediting Period for such GCC Project Activities shall be on or after 1 Jan 2016 but not more than one year after the start date of the operations of the GCC Project Activity. Sub-type 1 includes existing operational projects, not submitted to any GHG Program, which have started operations after 1 January 2016 As per paragraph 3(c)(iv) of section 2 of the Clarification No.1 (v1.3),it states that The deadline for the submission of A2 projects has been extended. As per the clarification, A2 type project are required to make initial submission to GCC Program, for uploading for global stakeholder consultation, prior to 5 July 2022 (new requirement). As per paragraph 4 of the section 7 of the Clarification No. 04 (V1.0), As per section 6 of the Clarification No.1 v1.2, Project Owner(s) wishing to register A2 projects shall submit a complete initial submission to GCC Program before July 5th, 2022. The GCC Project Verification team has identified that the project was initially submitted as Project Type A2, and subtype 1 the operational start date of the project activity is on 10/12/2016 and the crediting	GCC Clarification No. 05 (V1.0)

		period is from 10/12/2016 to 09/12/2026.Thus the project activity complies with the requirements of the GCC Project Standard (V3.1)/B01/, GCC Clarification No.1 (v1.3)/B01/, and GCC Clarification No. 04 (V1.0)/ B01/.Hence the project is eligible as Type A2.	
	Start date of project activity	10/12/2016 ((the date the first wind turbine was put into operation)	PSF/1/, Commissioning report /4/
	Start date of Crediting period	From 10/12/2016 to 09/12/2026	PSF/1/, Commissioning report /4/
	Global stakeholder consultation	22/12/2022 – 05/01/2023	https://www.globalcarboncouncil.com/global-stakeholders-consultation-7/
	The project activity complies with the requirement of §11 of the GCC Project Standard (V3.1)/B01/, GCC Clarification No.1 (v1.3)//, and GCC Clarification No. 04 (V1.0)./B01/.		

D.2. General description of project activity

Means of Project Verification	Desk reviews and Interviews
Findings	CAR 03 has been raised and the findings were closed. Please refer appendix 04 for details.
Conclusion	The description of the project activity contained in the PSF /1/ can be considered transparent, detailed and provides a clear overview of the project. Its content was confirmed by means of document review and interviews to verify the accuracy and completeness of the project description.

Parameters	Project Details	Verified documents
Name of the Project	Inner Mongolia Guyang Hongnijing 100MW Wind Power Project	PSF/1/, FSR /5/
Project developer	Inner Mongolia Huachen New Energy Co., Ltd	PSF/1/, Commissioning report /4/, FSR /5/
Capacity	100 MW_{AC}	Grid connection Agreement/42/ On-site visit /15/, PSF /1/, Commissioning report /4/

Purpose of the project	The purpose of the project activity is to generate electricity using WTGs harnessing wind energy. The electricity generated is supplied to the North China Power Grid (NCPG)	Commissioning report /4/ PPA /06/, On-site visit /15/, commissioning report /4/, FSR /5/
Annual Generation	253,196 MWh/ year	ER/2/
Emission reduction	2,093,670 tCO_2e (for the entire crediting period.)	ER/2/

Since Wind energy is clean energy, project activity does not involve any fossil fuel firing and hence no greenhouse gases are involved in the project activity. The power generation from the project activity replaces the equal amount of power which otherwise would have been supplied from the fossil fuel dominated grid. Thus, project activity helps in an average annual emission reduction of 209,367 tCO_2e /year for a period of 10 years.

The project activity by I Inner Mongolia Huachen New Energy Co., Ltd is located in Hongnijing Xiang Shisanfenzi village, Guyang County, Baotou City, Inner Mongolia Autonomous Region in P.R. China

The geo-coordinates of the project activity are given below:

No.	Coordinate	Coordinate (Decimal)
MY01	N41°24′1″, E109°42′39″	N41.4002, E109.7108
MY02	N41°24′21″,E109°42′42″	N41.4058,E109.7117
MY03	N41°25′16″,E109°41′59″	N41.4211,E109.6997
MY04	N41°24′30″,E109°43′37″	N41.4083,E109.7269
MY05	N41°24′20″,E109°44′14″	N41.4056,E109.7372
MY06	N41°24′3″,E109°44′3″	N41.4008,E109.7342
MY07	N41°23′55″,E109°43′35″	N41.3986,E109.7264
MY08	N41°23′44″,E109°43′46″	N41.3956,E109.7294
MY09	N41°23′28″,E109°43′41″	N41.3911,E1109.7281
MY10	N41°23′31″,E109°44′38″	N41.3919,E109.7439
MY11	N41°25′10″,E109°43′33″	N41.4194,E109.7258
MY12	N41°25′19″,E109°43′7″	N41.4219,E109.7186
MY13	N41°25′36″,E109°42′46″	N41.4266,E109.7128
MY14	N41°23′44″,E109°42′9″	N41.3956,E109.7025
MY15	N41°23′25″,E109°42′28″	N41.3903,E109.7078
MY16	N41°23′39″,E109°43′15″	N41.3903,E109.7208
MY17	N41°23′27″,E109°43′40″	N41.3908,E109.7277
MY18	N41°22′60″,E109°43′3″	N41.3833,E109.7175

MY19	N41°22′34″,E109°43′5″	N41.3761,E109.7181
MY20	N41°22′41″,E109°43′31″	N41.3781,E109.7252
MY21	N41°22′15″,E109°43′8″	N41.3708,E109.7189
MY22	N41°22′7″,E109°43′27″	N41.3686,E109.7242
MY23	N41°22′25″,E109°43′31″	N41.3736,E109.7253
MY24	N41°22′20″,E109°43′55″	N41.3722,E109.7319
MY25	N41°22′7″,E109°44′8″	N41.3686,E109.7356
MY26	N41°23′45″,E109°41′46″	N41.3958,E109.6961
MY27	N41°23′27″,E109°42′2″	N41.3908,E109.7006
MY28	N41°23′2″,E109°42′3″	N41.3839,E109.7008
MY29	N41°22′44″,E109°41′59″	N41.3789,E109.6997
MY30	N41°23′5″,E109°42′31″	N41.3847,E109.7086
MY31	N41°22′50″,E109°42′26″	N41.3806,E109.7072
MY32	N41°22′28″,E109°42′35″	N41.3744,E109.7097
MY33	N41°22′21″,E109°41′58″	N41.3725,E109.6994
MY34	N41°22′5″,E109°41′57″	N41.3681,E109.6992
MY35	N41°23′39″,E109°40′56″	N41.3942,E109.6822
MY36	N41°23′25″,E109°41′12″	N41.3903,E109.6867
MY37	N41°23′8″,E109°41′5″	N41.3856,E109.6847
MY38	N41°24′18″,E109°41′33″	N41.4050,E109.6925
MY39	N41°24′27″,E109°41′16″	N41.4075,E109.6878
MY40	N41°24′18″,E109°40′58″	N41.4050,E109.6828
MY41	N41°24′54″,E109°41′9″	N41.4150,E109.6858
MY42	N41°25′10″,E109°41′23″	N41.4194,E109.6897
MY43	N41°25′9″,E109°40′56″	N41.4192,E109°40′56″
MY44	N41°25′30″,E109°40′58″	N41.4250,E109°40′58″
MY45	N41°25′47″,E109°40′59″	N41.4297,E109.6831
MY46	N41°25′44″,E109°41′38″	N41.4289,E109.6939
MY47	N41°25′25″,E109°41′22″	N41.4236,E109.6894
MY48	N41°25′16″,E109°41′59″	N41.4211,E109.6997
MY49	N41°25′3″,E109°42′17″	N41.4175,E109.7047
MY50	N41°24′56″,E109°42′48″	N41.4156,E109.7133

The same was confirmed by the measurement of co-ordinates using google earth software and GPS at the project sites. The other details such as township, city and

province name of the project location are checked during the physical on-site verification /15/; further, the wind project was cross checked with the commissioning certificate of the project activity and were found appropriate /4/.

Parameters	Project Details	Verified documents
Type of Project	Greenfield wind power project	Commissioning report /4/, PPA /06/ EPC contract/7/, O&M contract/13/. Manufacture specification/11/, onsite visit /15/.
Technology	Wind Power plant	
WTG make	Mingyang Smart Energy Group Co., LTD	
Project Capacity	100 MW_{AC}	
Lifetime of the project	20 Years	
Turbine Model	MY2.0-110	
Turbine Type	Doubly-fed asynchronous wind turbine	
Manufacturer of transformer	Guangdong Ruizhi Power Technology Co., LTD	
Model of transformer	SG11-80/0.69	
Rated capacity	80kVA	
Meter make	EDMI	
Project start date	10/12/2016 (commercial operation date)	Commissioning report /4/

The Wind power project is fully commissioned and connected to North China Power Grid Transmission lines. The same is confirmed from the onsite visit/15/.

The investment decisions for the project activity were made within a year time/08/. This indicates that all the activities included within the project are located in distinct areas and therefore can apply requirements (baseline, additionality, monitoring, etc.). 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 North China Power Grid (NCPG).

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 Goals (SDG+)
Environmental No-net-harm Label (E+) score	+7

Social No-net-harm Label (S+) score	+3
Number of United Nations Sustainable Development Goals (SDG+) opted	3

The project owner has described the GHG emission-reduction activity, including schematics, specifications and a description 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 Project Activity is a voluntary action by the project owner as confirmed by the verification team upon review of the PSF /1/ and on-site visit interviews/15/.

In accordance with §44 of GCC Project Standard (version 03.1) /B01-1/, the verification team has assessed the geographical boundary of the Project Activity, within which it will be implemented, and confirms that geographical boundary of the Project Activity comprises the following boundaries.

- The wind power plant itself
- The entire NCPG grid and all connected power plants.

This was checked and confirmed by reviewing the PSF /1/, on-site visit interviews with representatives of project owner.

As per the PSF /1/, start date of the Project activity 10/12/2016 (Earliest start date of commercial operation of the Project) /4/. The same is in accordance with requirements of §38 of GCC Project Standard (version 03.1) /B01-1/.

A crediting period is a fixed crediting period for the Project Activity, from 10/12/2016 to 09/12/2026 i.e., of 10 years. This is cross checked by PSF /1/ and conforms the requirement of §39 and §40 of GCC Project Standard Version 03.1 /B01-1/.

CCIPL confirms that the description of the proposed Project Activity in the PSF is accurate and complete, and it provides an understanding of 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	CAR 04 were raised, and findings are 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 wind power. 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 /B02/. The applied version of the baseline and monitoring methodology /B02/ is valid at the time of submission of the PSF for global stakeholder consultation. All applicability criteria in the methodology are assessed in the below table:

Applicability criteria of the	Justification in the PSF by PO	GCC Project Verifier's assessment

<table>
<tr><td></td><td>
<table>
<tr><th>methodology (ACM0002, Version 21.0)</th><th></th><th></th></tr>
<tr><td>This methodology is applicable to grid-connected renewable energy power generation project activities that:
(a) Install a Greenfield power plant;
(b) Involve a capacity addition to (an) existing plant(s);
(c) Involve a retrofit of (an) existing operating plant(s)/unit(s);
(d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or
(e) Involve a replacement of (an) existing plant(s)/unit(s).</td><td>The project is a greenfield wind power plant.

Hence applicable.</td><td>
<table>
<tr><th>Parameters</th><th>Project Specification</th><th>Verified document</th></tr>
<tr><td>Type of project activity</td><td>Greenfield wind Power project</td><td rowspan="3">Confirmed from the technology provider /11/, FSR /5/, power purchase agreement signed /06/, and the Commissioning report /4/.</td></tr>
<tr><td>Category</td><td>Renewable energy</td></tr>
<tr><td>Project capacity (AC)</td><td>100 MW</td></tr>
</table>

Hence the methodology is applicable to the proposed project activity.
</td></tr>
<tr><td>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 photovoltaic or wind power plant(s)/unit(s);
(c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s);
(d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind</td><td>The project does not involve the integration of a BESS.

Hence Not Applicable</td><td>
<table>
<tr><th>Parameters</th><th>Project Specification</th><th>Verified document</th></tr>
<tr><td>Type of project activity</td><td>Greenfield wind project</td><td rowspan="4">Contract signed by the technology provider /11/, FSR /5/, power purchase agreement signed /06/, and Commissioning report /4/.</td></tr>
<tr><td>Category</td><td>Renewable energy</td></tr>
<tr><td>Project capacity (AC)</td><td>100 MW</td></tr>
<tr><td>Type of Renewable Energy Project</td><td>Wind Power Project</td></tr>
</table>
</td></tr>
</table>
</td></tr>
</table>

power plant(s)/unit(s).

Table 2. Combinations of renewable energy technologies and mode of BESS applicable for integration

Renewable Energy Technology Mode of installation of BESS	Solar photovoltaic or wind	Other renewable technologies
BESS + (a) Greenfield plant(s)	Eligible	Eligible
BESS+ capacity addition to existing plant(s)	Eligible	Not Eligible
BESS with no other changes to the existing plant(s)	Eligible	Not Eligible
BESS + retrofit to existing plant(s)	Eligible	Not Eligible

Hence the methodology is applicable to the proposed project activity.

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	The project activity involves construction and operation of greenfield grid-connected wind power project using wind energy for generation of electricity and does not involve BESS and hence the criteria is not relevant.	The proposed project activity does not involve BESS since the project activity involves construction and operation of greenfield grid-connected wind power project. The proposed activity is a Greenfield grid connected wind power project. CCIPL project verification team confirmed the same during the onsite visit /15/. Hence this condition is not applicable to the proposed project activity.

		years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity; c) In case of Greenfield project activities applicable 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 should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more		

	than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period.		
	In case of hydro power plants, one of the following conditions shall apply: a) The project activity is implemented in existing single or multiple reservoirs, with no change in 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 any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m2, all of the following conditions shall apply: The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater	The project activity involves construction and operation of greenfield grid-connected wind power project using wind energy for generation of electricity hence the applicability condition is not applicable/relevant to the project activity as the applicability conditions is related to hydro power projects	The proposed project activity is not a hydro power project. The proposed activity is a Greenfield grid connected wind power project. CCIPL project verification team confirmed the same during the onsite visit /15/. Hence this condition is not applicable to the proposed project activity.

	than 4 W/m2; Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m2 shall be: Lower than or equal to 15 MW; and Less than 10 per cent of the total installed capacity of integrated hydro power project.		
	In the case of integrated hydro power projects, project participants shall: (a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (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	The project activity involves construction and operation of greenfield grid-connected wind power project using wind energy for generation of electricity hence the applicability condition is not applicable/relevant to the project activity as the applicability conditions is related to hydro power projects.	The proposed project activity is not a hydro power project. The proposed activity is a Greenfield grid connected wind power project. CCIPL project verification team confirmed the same during the onsite visit /15/. Hence this condition is not applicable to the proposed project activity.

<table>
<tr><td></td><td>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.</td><td></td><td></td></tr>
<tr><td></td><td>The methodology is not applicable to:
(a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;
b) Biomass fired power plants;</td><td>The project activity involves construction and operation of greenfield grid-connected wind power project using wind energy for generation of electricity hence the applicability condition is not relevant as the same pertains to switching from fossil fuels to renewable energy sources or biomass fired power plants/units.</td><td><table><tr><th>Parameters</th><th>Project Status</th><th>Verified document</th></tr><tr><td>Any fossil fuel switching activity?</td><td>Not applicable</td><td rowspan="2">Confirmed from Contract signed by the wind Power project technology provider /11/, FSR /05/ and the Commissioning report /4/.</td></tr><tr><td>Biomass fired power plant involved in the project activity?</td><td>Not applicable</td></tr></table>
The project verification team confirmed the same during the onsite visit /15/. Hence this condition is not applicable to the proposed project activity.</td></tr>
<tr><td></td><td>In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is “the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance”.</td><td>The project activity involves construction and operation of greenfield grid-connected wind power project using wind energy for generation of electricity hence the applicability condition is not relevant as the same pertains to retrofits, rehabilitations, replacements, or capacity</td><td><table><tr><th>Parameters</th><th>Project Status</th><th>Verified document</th></tr><tr><td>Any Capacity addition?</td><td>Not applicable</td><td rowspan="4">Confirmed from Contract signed by the wind Power project technology provider /11/, FSR /5/ and the Commissioning report /4/.</td></tr><tr><td>Any Retrofits?</td><td>Not applicable</td></tr><tr><td>Any Rehabilitation?</td><td>Not applicable</td></tr><tr><td>Any replacement</td><td>Not applicable</td></tr></table></td></tr>
</table>

	additions.	The project verification team confirmed the same during the onsite visit /15/. Hence this condition is not applicable to the proposed project activity.

Applicability conditions of Tool 07, Tool to calculate the emission factor for an electricity system (Version 07.0)

Applicability criteria of the tool 7, Version 7.0	Justification in the PSF	GCC Project Verifier's assessment
The tool lists the following applicability criteria: This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity 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).	Applicable This project replaces grid power supply and uses this tool to calculate the values of OM, BM and CM of this project.	The project activity involved the construction and operation of 100 MW Wind power plant in P.R.China. The electricity thus generated is being sold to North China Power Grid (NCPG). In the absence of the project activity, the same amount of electricity (grid electricity) would be generated in the NCPG, Therefore, combined margin calculation applies to the NCPG. The same is confirmed by checking the Grid connection agreement /42/, Commissioning report /4/
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	The emission factor for the project electricity system calculated for grid power plants only.	Project owner has calculated the emission factor applying the mentioned applicability condition in Tool 07 /B05 / This is accepted by the project verification team.

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.		
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.	There is no part of the power system of this project located in Annex I countries.	The electricity generated from the GCC project will be sold (100%) to North China Power Grid (NCPG). Since the project electricity system is located in P.R. China which is not an Annex I country (Date of ratification of Kyoto protocol by China = 29 May 1998), the project verification team has accepted the application of the tool to calculate the grid emission factor.
(d) Under this tool, the value applied to the CO_2 emission factor of biofuels is zero.	This condition is not relevant, this project is a wind power project. This condition is not relevant,	The project activity is a grid connected wind power project. There are no biofuels related activity.

Applicability criteria of tool 01, Tool for the demonstration and assessment of additionality (Version 07.0.0)

Applicability criteria of the tool 1, Version 7.0	**Justification in the PSF**	**GCC Project Verifier's 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.	Applicable The methodology selected for the proposed project requires the use of this tool.	One alternative that would be more attractive than the project activity has been defined in section B.5 of the PSF. Hence, the applicability criterion was found to be met.
Once the additionally tool is included in an approved methodology, its application by	Applicable The methodology	Project owner has applied the Tool for the demonstration and

project owners using this methodology is mandatory.	applied in this proposed project requires the use of this tool.	assessment of additionality, version 7, which is in line with the methodology, ACM0002 Grid-connected electricity generation from renewable sources, version 21 /B02/

Applicability conditions of tool 27, “Investment analysis”, Version 12.

Applicability criteria of the tool 27, Version 12	Justification in the PSF	GCC Project Verifier’s 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.	Applicable The project apply the methodological tool “Tool for the demonstration and assessment of additionality”..	The applicability criterion is met as the project activity applies the methodological tool “Tool for the demonstration and assessment of additionality” /B06/.
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.	The methodology ACM0002 (Version 21.0) applied in this project requires the use of this tool to demonstrate the investment analysis of this project.	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.

Applicability criteria of the tool 24, Version 3.1	Justification in the PSF	GCC Project Verifier’s 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	Applicable This project apply the methodological tool “Tool for the demonstration and assessment of additionality”. applicable.	The applicability criterion is met as the project activity applies the methodological tool “Tool for the demonstration and assessment of additionality” /B04/

	scenario and demonstrate additionality", or baseline and monitoring methodologies that use the common practice test 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.	The methodology ACM0002 (Version 21.0) applied in this project requires the use of this tool to demonstrate the common practice of this project.	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/B07/.

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

Means of Project Verification	Desk Review and Interview
Findings	No findings in this section
Conclusion	NA

D.3.3 Project boundary, sources and GHGs

Means of Project Verification	Desk Review and Interview
Findings	CAR 05 was raised, and findings are closed. Please refer to Appendix 4 for further details
Conclusion	According to the approved baseline and monitoring methodology "ACM0002" of "Grid connected renewable electricity generation", version 21.0 /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 GCC 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 /06/, grid connection agreement /42/ 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 wind power plant and the other power plants which connected to the related electricity system and the North China Power Grid (NCPG).

D.3.4 Baseline scenario

Means of Project Verification	Desk Review and Interviews

<table>
<tr><td>Findings</td><td>CAR 06 was raised, and findings are closed. Please refer to Appendix 4 for further details</td></tr>
<tr><td>Conclusion</td><td>
<table>
<tr><th>Methodology requirement baseline</th><th>GCC Project Verifier Opinion</th></tr>
<tr><td>According to the approved baseline methodology ACM0002 /B-02/, “the baseline scenario is electricity delivered to the grid by the project activity, which would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system (Version 07.0)”.</td><td>Project activity involves generation of electricity using wind power plant and selling it to NCPG as confirmed through the power purchase agreement /06/ and Commissioning report /4/. In the absence of this project activity, same amount of electricity would have been generated by the operation of existing/proposed grid connected fossil fuel-based power plants.</td></tr>
<tr><td>The relevant national and/or sectoral policies, regulations and circumstances are taken into account during the determination of baseline scenario.</td><td>Project Owner has considered all the applicable national and sectoral level policies in demonstrating the regulatory compliance of the of the project and baseline scenario.

National/sectoral policies & regulations:

• Renewable Energy Law of the People's Republic of P.R. China /33/.
• Opinions of the National Development and Reform Commission and the National Energy Administration on improving the institutional mechanisms and policy measures for the green and low-carbon energy transition/34/.
• Interim Measures for the Administration of Wind Power Development and Construction /35/.
• Notice of the National Energy Administration on issuing the Work Rules for Wind Power Standard Construction, the Charter of the Technical Committee for Wind Power Standardization in the Energy Industry and the Framework of Wind Power Standard System[6]

According to all the referred policies and regulations the baseline scenario is in compliance with all applicable legal and regulatory requirements.</td></tr>
</table>

The baseline scenario has been adequately stated as: The baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of</td></tr>
</table>

[6] https://www.nea.gov.cn/2011-10/13/c_131188560_2.htm

	new generation sources, as reflected 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 CO_2 emission factor for the project electricity system in year y ($EF_{grid,CM,y}$) – The value has been taken from the 2019 Annual Emission Reduction Projects China Regional Power Grid Baseline Emission Factors published by the Ministry of Ecology and Environment of the People's Republic of China /16/. 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. The 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 /04/ /05/ /06/ /07/ and /16/ 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 21.0, 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 Project Verification	Desk Review and Interviews
Findings	CL 04 and CAR 07 were raised, and findings are 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. However, the project activity is not mandated by law or regulations and is entirely a voluntary action. The project complies with paragraph 46 of GCC Project Standard V3.1. The relevant national acts and regulations pertaining to generation of energy in the host country i.e., P.R.China. • Renewable Energy Law of the People's Republic of P.R. China/33/ • Several opinions of The State Council on promoting the healthy development of photovoltaic industry/34/ • Measures for the administration of the development and construction of photovoltaic power stations/ 35/ • Environmental Protection Law of the People's Republic of China/36/

	It was confirmed that there are no enforced laws, statutes, regulations, court orders, environmental-mitigation agreements, permitting conditions or other legally binding mandates requiring its implementation, or requiring the implementation of a similar technology/measure that would achieve equivalent levels of GHG emission reductions. The GCC verification team assessed the relevant regulations of the host county to confirm the requirements and also confirmed based on the local expertise by the project verification team the project is not implemented to meet any legal requirement. **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: **Sub Step 0: Demonstration whether the proposed project activity is first-of-its-kind.** The proposed project activity is not the first of its kind as implementation of wind power project in the State is not first of its kind. **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 (a):** The proposed project activity undertaken without being registered as a GCC project activity. **Alternative (b):** Continuation of the current situation (no project activity or other alternatives 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 is the baseline scenario and implementation of the proposed project as a GCC project activity would be additional to this scenario. **Outcome of Step 1a** Both the alternatives identified above are realistic alternatives. However, the first alternative is not possible as the project activity is not viable without carbon credit benefits; and section alternative is the baseline scenario for the project activity. **Sub-step 1b: Consistency with mandatory laws and regulations:** There are no laws or regulations in P.R China issued by Chinese Government, that restrict implementation of wind power project. Further, no law or regulation issued by Government of China, which mandates project owner to invest in wind power project. The proposed project activity is consistent with national policies for environmental protection, energy conservation and sustainable development. The National policies in China are as follows: • Renewable Energy Law of the People's Republic of P.R. China/33/

	• Several opinions of The State Council on promoting the healthy development of photovoltaic industry/34/ • Measures for the administration of the development and construction of photovoltaic power stations. / 35/ • Environmental Protection Law of the People's Republic of China/36/ The resultant alternatives to the project as outlined in Step 1a are in compliance with the applicable laws and regulations. This has been discussed in the legal requirement test above. **Outcome of Step 1b** Mandatory legislation and regulations for each alternative are taken into account 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. The verification team has assessed mandatory laws and regulations and confirms that all alternatives are in compliance with mandatory laws and regulations in China. Alternative 2 has been selected as the appropriate baseline alternative for this project activity in line with methodology. **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 following sections as per TOOL 27: "Investment analysis" (Version 12.0)/B06/ 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. 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. Since the Project is a grid-connected wind power project, and the baseline scenario is the provision of equivalent amount of annual electricity by the NCPG and the PO is demonstrating the financial unattractiveness of the project and the project cost involves both equity and debt, benchmark analysis is considered to be the appropriate option to indicate financial unattractiveness. **Sub-step 2b: Option III. Apply benchmark analysis** As per para 15 of Tool 27: Investment analysis, version 12.0, 'Required/expected returns on equity are appropriate benchmarks for an equity IRR' /B06/. Project owner has chosen Post tax project IRR as the financial indicator for the demonstration of financial unattractiveness for the proposed project activity According to paragraph .15 of the CDM TOOL 27: Investment analysis, it states that, 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. Project owner has chosen the IRR benchmark of 8% from the "the Interim Rules on

	Economic Assessment of Electrical Engineering Retrofit Projects[7] According to clause 1.11 of "Interim Rules on Economic Assessment Electrical Engineering Retrofit Projects" published by State Power Grid Company/18/, for greenfield or retrofit projects in Chinese electric power industry, the financial benchmark is 8% for project IRR (after tax) or 10% for equity IRR (after tax). It has been confirmed by the project verification team that the investment climate has not changed during a long period covering from 2003 to 2014 based on the local sectoral knowledge. This has been confirmed by checking the historical statistical data by the National Bureau of Statistics(https://data.stats.gov.cn/easyquery.htm?cn=C01). The project verification team has confirmed the "the Interim Rules on Economic Assessment of Project Verification Report Global Carbon Council 20 of 124 Electrical Engineering Retrofit Projects"/18/ and confirms that the benchmark was determined by the national administration of the industry in China and represents a government/official approved benchmark. The design institute of the FSR /5/ of the project recommend in the FSR to consider the IRR benchmark of 8% based on the "Interim Rules on Economic Assessment of Electrical Engineering Retrofit Projects". The project developer selected this benchmark during the process of making investment decision on 10/07/2015/08/. It is common practice that wind power projects in China selected this IRR benchmark from "Interim Rules on Economic Assessment of Electrical Engineering Retrofit Project. The project verification team has confirmed the "the Interim Rules on Economic Assessment of Project Verification Report Global Carbon Council 20 of 124 Electrical Engineering Retrofit Projects" and confirms that the benchmark was determined by the national administration of the industry in China and represents a government/official approved benchmark. The design institute of the FSR of the project recommend in the FSR to consider the IRR benchmark of 8% based on the "Interim Rules on Economic Assessment of Electrical Engineering Retrofit Projects". The project developer selected this benchmark during the process of making investment decision on 10/07/2015/08/ It is common practice that wind power projects in China selected this IRR benchmark from "Interim Rules on Economic Assessment of Electrical Engineering Retrofit Project. The Project verification team also confirms that after this benchmark has been published, there has been no updated benchmark for this industry published in China. Hence the project verification team confirms that the selected benchmark is found to be appropriate that a threshold IRR on project (=required/expected return on project) 8% (post tax) on real term for the wind project based on the above-mentioned conditions. The date of investment decision date has been considered as the date of the boards meeting/08/ by the company which is 10/07/2015.Therefore, selected benchmark value was found to be appropriate for this project and representative of the Host Country China and has been applied by similar projects (renewable energy power generation).

[7] Interim Rules on Economic Assessment of Electrical Engineering Retrofit Projects, China Electric Power Press, 2003, Beijing.

Parameters	Project's Specifics	GCC Project Verifier Opinion
Investment Decision Date	10/07/2015	The Project Decision Meeting for the approval of setting up of wind power project is taken as the investment decision date/08/. The same is verified by checking the Minutes of the Inner Mongolia Huachen New Energy Co., Ltd Project Decision Meeting/ 8/.
Type of Benchmark	Post tax project IRR	As per para 15 of Tool 27: Investment analysis, version 12.0, " Local commercial lending rates or WACC are appropriate benchmarks for a project IRR. " /B06/
Benchmark Value	8.0%	Project owner has chosen the IRR benchmark of 8% from the "the Interim Rules on Economic Assessment of Electrical Engineering Retrofit Projects/18/. This has been confirmed from the Interim Rules on Economic Assessment of Project Verification Report Global Carbon Council 20 of 124 Electrical Engineering Retrofit Projects" and confirms that the benchmark was determined by the national administration of the industry in China, and represents a government/official approved benchmark. The design institute of the FSR of the project recommend in the FSR to consider the IRR benchmark of 8% based on the "Interim Rules on Economic Assessment of Electrical Engineering Retrofit Projects"/18/. The project verification also confirmed the same by checking the conditions in Tool 27

		/B06/ with respect to the Project IRR.

The CCIPL 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.

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/3/ provided by the PO. All assumptions and estimates used for input values were checked against the relevant sources.

The GCC project activity has a less favorable Project IRR than the benchmark, and hence the GCC project activity cannot be considered as financially attractive. Project verification team has cross checked the chronology of events mentioned in the section B.5 of the PSF and found consistent. The key data parameters used to calculate Project IRR are tabulated below.

Parameter	Unit	Value	Assessment and Crosschecking
Total capacity	MW $_{ac}$	100	Verified against Project Feasibility Study Report, published on May 2015 for the wind project/05/ and cross verified against the Commissioning report/4/ and EPC contract/7/. Further the same has been confirmed during the onsite visit/15/.
Average Load Factor	%	28.90	Verified against the FSR, P7, Published on May 2015 for the Wind project /05/. The same is used in the investment analysis. CCIPL confirms that the PLF considered for the project activity is appropriate; hence acceptable.
Operation period	Years	20	The technical life of the project activity is 20 years, and this has been confirmed from the FSR, p228 Published on May 2015 /5/ and technical specification provided by the technology supplier /11/. Therefore, financial analysis carried for 20 years is acceptable.
Electricity Tariff	CNY/MWh	490	The project Grid tariff applied in the whole project lifetime is 490 (incl. VAT), 418.8 CNY/MWh(without VAT) which has been verified to be consistent with the value in the approved FSR/05/. As per NRDC White Paper – Improving China ‘s Existing Renewable Energy Legal Framework, no nationwide feed-in tariff currently exists, but specific wind projects can receive a feed-in tariff through a tender process. The tariff rate is also confirmed with power purchase agreement. /06/

				Therefore, the value 490 CNY/MWh found appropriate.
	Operation and Maintenance Cost	CNY	22,011,655	Verified against the O&M agreements/13/ and FSR P235/05 / and found that at actual cost the project is not breaching the benchmark. GCC project verification team has subjected this parameter under sensitivity analysis, even at decrease of 4830% of O&M cost the value is not breaching the benchmark. Since, O&M agreement is already in place by the project owner, and the cost is fixed, the reduction in O&M costs are highly unlikely. Hence, the value is accepted by project verification team.
	Total static investment	CNY	870,444,380	Verified against FSR p18, published on May 2015 of the wind project /05/, EPC Contracts /7/ and purchase order/14/ These values are adopted from the documents as per the tool 27 para 10. The project verification team observed that with 9.83% increase in Project cost in the sensitivity analysis the equity IRR is crossing the benchmark. But the actual investment of the project is 879,148,800 CNY. It is impossible that the investment cost will decrease by 9.83%. Hence, the value is acceptable by the project verification team. Further, the project cost is subjected to sensitivity analysis. The actual breakup cost of the project is given below:

				<table><tr><th>Particulars</th><th>Total Cost</th><th>Total cost in Crs.</th></tr><tr><td>Total static investment</td><td>879,148,800</td><td>CNY</td></tr><tr><td>Main transformer cost</td><td>7,119,591.00</td><td>CNY</td></tr><tr><td>Box transformer cost</td><td>15,826,195.00</td><td>CNY</td></tr><tr><td>Tower barrel cost</td><td>124,177,480.00</td><td>CNY</td></tr><tr><td>Wind turbine equipment cost</td><td>524,493,202.00</td><td>CNY</td></tr></table>
	Debt ratio of the total investment	%	80% of total cost	Verified against the FSR P12 /05/and is approved by the local government
	Long -term loan interest	%	5.65	Verified against FSR P212 of the wind project/05/ available at the time of decision making /05/. Interest rates were crosschecked with People's Bank of China, interest rates (1989-2015), and confirmed to be correct. http://www.pbc.gov.cn/zhengcehuobisi/125207/125213/125440/125838/125888/2968985/index.html. Hence, the value used for the financial analysis is acceptable to the project verification team.
	Short- term loan interest	%	5.10	Verified against FSR P229 of the wind project/05/ available at the time of decision making /05/. The project verification team confirms the same by checking loan agreement /38/. Further, Interest rates were crosschecked with People's Bank of China, interest rates (1989-2015), and found to be correct. http://www.pbc.gov.cn/zhengcehuobisi/125207/125213/125440/125838/125888/2968985/index.html Hence, the value used for the financial analysis is acceptable to the project verification team.
	VAT tax rate for electricity sales	%	17	Verified against the FSR (p230) of the wind project/05 /. According to the Provisional Regulations on Value Added Tax of the People's Republic of China /20/ issued on 13

				December 1993 and effective from 1 January 1994, the VAT rate was stipulated as 17%. This regulation was then revised on 10 November 2008 and has been effective till now, in which the VAT value is still stipulated as 17%. Therefore, the project verification confirms that the selected VAT rate is in Appropriate with the Chinese regulation at the time of the investment decision.
	Income tax rate	(the first year to the third year of the exemption period) %	0%	The income tax rate is 0% in years 0-4, 12.5% in years 5-7 and 25% in the rest years used in the investment analysis of the proposed project. The same is crosschecked against FSR p230. It is confirmed it is in line with the Law of People's Republic of China on Enterprise Income Tax issued on 16 March 2007 /22/. Further, the same is confirmed by checking the tax rates mentioned in State taxation Administration of the people's republic of China. https://www.chinatax.gov.cn/n810341/n810765/n812176/n812748/c1193046/content.html
		(the fourth to the sixth year of the halving period) %	12.5	
		(after the seventh year) %	25	
	Residual rate	%	5	The project verification team verified against the FSR p229 /05 /. According to the Notification on determination of residual rate for enterprise fixed asset /23/, the residual value can be determined by an enterprise and the range of residual value from 0% to 5% is considered to be reasonable. According to the Application Rules of Interim Provision of Company Income Tax in China, issued in 1994 (http://shanghai.chinatax.gov.cn/zcfw/zcfgk/qysds/200609/t285896.html), the residual value shall be 5% or less, which can be determined by the company. If the residual value is more than 5%, it shall be approved by the local tax bureau.

			Therefore, the project verification team confirms that the value taken is found appropriate and in line with the Chinese regulation.
Average annual depreciation rate	%	6.33	It is verified that the depreciation rate is 6.33% and is in line with the Implementation Rules of Enterprise Income Tax Law of China /24/
Urban maintenance and construction tax rate	%	5	Verified against the FSR, p230 of the wind project/05/ and is found appropriate with the Provisional Regulations of the People's Republic of China on Urban Maintenance and Construction Tax /25/, the rate of city construction surtax shall be determined by the taxpayer's location: 7% for urban areas, 5% for county and town, and 1% for others.it is acceptable that Urban maintenance and construction tax rate of 5 % is applicable for the project.
Educational surcharge	%	5	Verified against the FSR p230 of the project/05 / and found appropriate ((3% required by the national regulation plus 2% required by the local regulation) with the Chinese regulation at the time of investment decision.
Deductible equipment value-added tax	CNY	96,864 ,096	Verified against the FSR p230 /05/ of the project activity is found appropriate.

The project IRR calculations were provided in a spreadsheet /03/. The calculation was verified and found to be correct by CCIPL project verification team; as well as the assumptions used in the calculation were deemed to be correct. The post-tax project IRR without GCC carbon credit revenues is 6.71 % which confirms that the proposed project activity in absence of the GCC carbon credit benefits and compared to the benchmark return on equity 8% is not financially attractive.

Sensitivity analysis

A sensitivity analysis has been carried out for parameters contributing more than 20% revenues and costs, to demonstrate the robustness of the financial analysis. The parameters for which sensitivity analysis is done are Total static investment, Annual average power supply, Annual O&M cost, and Electricity tariff. Sensitivity analysis was conducted for ±10% variation. Reasonable variations for these parameters were checked by calculating the variation necessary to reach the benchmark and then discussing the likelihood for that to happen.

Varying range	**-10%**	**-5%**	**0**	**5%**	**10%**	**Percentage of change at which IRR cross the benchma**

						rk*
Total static investment	8.02%	7.34%	6.71%	6.12%	5.58%	-9.83%
Annual electricity delivered to the grid	5.36%	6.04%	6.71%	7.36%	8.00%	10.00%
Annual O&M cost	6.98%	6.84%	6.71%	6.57%	6.43%	-48.30%
Electricity tariff	5.36%	6.04%	6.71%	7.36%	8.00%	10.00%

The results of sensitivity analysis /03/ show that even with a variation of ±10% in Total static investment, Annual average power supply, Annual O&M cost, and Electricity tariff is 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.

1)Annual electricity to the grid increased by 10%

The annual electricity generation of the proposed project activity will require an increase of +10 % in order to cross the benchmark of 8%. However, the annual electricity generation of the proposed project is derived from the approved FSR/05/ which was prepared by an independent third party. Since it is approved by the government, the FSR can be considered authentic and recognized source. The annual electricity generation of the project activity is compared to the actual generation and as per our opinion, an increase of +10% for all the 10 years of the crediting period is a highly unlikely scenario. The annual designed electricity generation of the project is based on statistics of on-site wind source measurements and the 30- year (1984-2013) historical wind source data of the Guyang County meteorological station, which is relatively stable and can represent the average level during the lifetime of the project.

2) Total static investment is reduced by 9.83%

The project IRR will require a decrease of 9.83% in the total static investment in order to cross the benchmark of 8%.
The total investment cost of the project activity is 870,444,380 CNY /FSR/. The proposed project activity is already installed, and the actual cost incurred is 879,148,800 CNY /14/. Hence, in our opinion, further the decrease in project cost is a highly unlikely scenario.

3) Electricity Tariff rate is increased by 10 %

A further increase in tariff rate is a highly unlikely scenario as the tariff rate is fixed for 25 years as verified from the PPA/06/ and FSR/05/. The value of 0.49RMB/kWh (Incl. VAT) is applied in the IRR calculations. In the case that the tariff increases by more than 10%, the IRR of the proposed project begins to exceed the benchmark. The electricity tariff of wind power projects is determined by Grid Company according to guiding price of the government.

4) O&M cost is reduced by 48.30%

Even at 30% of reduction, the project IRR will not cross the benchmark. Hence, as

	per the above discussion the verification team has concluded that the project activity is not financially feasible and in turn is additional. O&M costs are predicted to climb annually rather than decrease as a result of wage level increases in line with eastern areas' development paths. The proposed project's internal rate of return (IRR) would surpass the benchmark if the annual operating and maintenance cost dropped by more than 48.30%, although this is not possible as the actual O&M cost is cross checked and confirmed to be correct as per O&M contract /13/ **Step 3: Barrier Analysis** The additionality of the project has been demonstrated by applying the investment analysis, thus no barrier analysis is carried out. **Step 4: Common Practice Analysis** The section below provides the analysis as per step 4 of the "Tool for the demonstration and assessment of additionality", version 7.0.0 and according to "Common Practice" Tool version 03.1. **Step 1: Calculate applicable capacity or output range as +/- 50% of the total design capacity or output of the proposed project activity:** **The project installed capacity is 100 MW. Therefore, total capacity of wind power plants which will be included in the analysis will be between 50 MW to 150 MW.** **Step 2: Identify similar projects (both CDM and non-CDM) which fulfil all of the following conditions:** **a) The projects are located in the applicable geographical area;** Considering the size of the P.R. of China and the geographical differences (e.g. access to natural resources, climate, terrain) as well as social-economic differences (e.g. regulatory framework, infrastructure, economic development levels, economic structure, access to technology, access to financing, tariff levels) between the provinces, the applicable geographic area is Inner Mongolia where the project located. Therefore, the Inner Mongolia Autonomous Region is selected as applicable geographical region. **b) The projects apply the same measure as the proposed project activity;** Renewable Energy Projects **c) The projects use the same energy source/fuel and feedstock as the proposed project activity, if a technology switch measure is implemented by the proposed project activity.** wind power projects **d) The plants in which the projects are implemented produce goods or services with comparable quality, properties and applications areas (e.g., clinker) as the proposed project plant.**

The project activity produces electricity; therefore, all wind power plants that produce electricity are candidates for similar projects.

e) The capacity or output of the projects is within the applicable capacity or output range calculated in Step 1;

Range in between 50 to 150 MW.

f) The projects started commercial operation before the project design document (GCC-PSF) 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., EPC Contract date /7/ of the project activity is on 04/2016. Therefore, projects, which have started commercial operation before start of the project, have been considered for analysis.

There are 15 projects meeting the above criteria/37/.

Step 3: within the projects identified in Step 2, identify those that are neither registered CDM project activities, project activities submitted for registration, nor project activities undergoing project verification. Note their number, N_{all}.

There have been 4 projects that meet the conditions/ and are given in the table below. Hence Nall = 4

No.	Project Title	Installed capacity (MW)
1	Damao Qi Bailingmiao phase I Wind Power Project	50
2	Damao Qi Bailingmiao phase II Wind Power Project	50
3	Honiton Energy Xiwu Phase One Wind Farm Project	50
4	Inner Mongolia Wengniute Banner Wudaogou Wind Power Project (II)	50

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}.

As per the CDM tool am-tool-24-v03.1 Common practice, technologies that deliver the same output and differ by investment climate on the date of the investment decision (significant difference on tariff and subsidies) and nature of the investment (unit cost of capacity differ by over 20%) are considered as different technologies.

Damao Qi Bailingmiao phase I wind power project, Damao Qi Bailingmiao phase II wind power project and Honiton Energy Xiwu Phase One Wind Farm Project have been developed as projects with gold standard for emission reduction (VER) to obtain additional financial support from the sale of emission reduction.Inner Mongolia

	Wengniute Banner Wudaogou Wind Power Project (II) have been developed as projects with Verified Carbon Standard for emission reduction (VER) to obtain additional financial support from the sale of emission reduction. Therefore, Ndiff =4, Nall- Ndiff.=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 found to be in line with Tool 24 $F = 1 – (N_{diff}/N_{all}) = 1 – (4/4) = 0$ $N_{all} – N_{diff} = 4-4=0$ As per methodological tool "common practice" version 03.1, The proposed project activity is a "common practice" within a sector in the applicable geographical area if the factor F is greater than 0.2 and N_{all} - N_{diff} is greater than 3. The project activity would be common practice, only both of the following conditions apply. $F > 0.2$ and $N_{all} - N_{diff} > 3$ For the concerned project, F = 0 but N_{all} - N_{diff} = 0 (Which is less than 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 Project Verification	Desk Review and Interview
Findings	CAR 08 and CAR 12 were raised, and findings are closed. Please refer to Appendix 4 for further details.
Conclusion	According to ACM0002/B-02/ 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_2e/MWh). 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, $EG_{PJ,y}$ which is also called

	$EG_{facility,y}$ is 253,196 MWh for first year. Also, according to Projects China Regional Power Grid Baseline Emission Factors published by the Ministry of Ecology and Environment of the People's Republic of China, $EF_{grid,y}$ could be used as 0.8269 tCO_2e/MWh/ 16/ Therefore, annual baseline emission is calculated as below: $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ 253,196 x 0.8269 = 209,367 tCO_2e/yr **Project Emissions (PE_y)** As the project activity is a wind-based power generation, the project emissions are not applicable to the project activity as per the methodology ACM0002/B02/. Hence, $PE_y = 0$ **Leakage Emission (LE_y)** 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: $ER_y = BE_y - PE_y - LE_y$ $ER_y = BE_y = 209,367$ tCO_2e/yr The annual emission reduction value accounts to 209,367 tCO_2e/year.

D.3.7 Monitoring plan

Means of Project Verification	Desk Review and Interviews
Findings	CL 02, CAR 01, CAR 02 were raised, and findings are 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. methodology: the 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
Operating Margin CO_2 emission factor in year y of NCPG ($\mathbf{EF_{grid,OM,y}}$)	0.9419	tCO_2e/MWh	The values are confirmed by checking with the calculation from the 2019 Annual Emission Reduction Projects China Regional Power Grid Baseline Emission Factors published by the Ministry of Ecology and Environment of the People's Republic of China /16/. This is the latest available data vintage is taken for the EF calculations. The simple OM is fixed ex-ante in line with the 'tool to calculate the emission factor for an electricity system" Version 07.0.0 /B05/. Hence, accepted by the project verification team.
Build Margin CO_2 emission factor in year y of NCPG ($\mathbf{EF_{grid,BM,y}}$)	0.4819	tCO_2e/MWh	The values are confirmed by checking with the calculation from the 2019 Annual Emission Reduction Projects China Regional Power Grid Baseline Emission Factors published by the Ministry of Ecology and Environment of the People's Republic of China /16/. This is the latest available data vintage is taken for the EF calculations. Hence, accepted by the project verification team.
Combined Margin CO_2 emission factor in year y of NCPG ($\mathbf{EF_{grid,CM,y}}$)	0.8269	tCO_2e/MWh	The values are confirmed by checking with the calculation from the 2019 Annual Emission Reduction Projects China Regional Power Grid Baseline Emission Factors published by the Ministry of Ecology and Environment of the People's Republic of China /16/. This is the latest available data vintage is taken for the EF calculations. in accordance with the Tool to calculate emission factor of an electricity system. The tool guides to take 75% weightage of $EF_{grid, Om,y}$ simple, & 25% weightage of $EF_{grid,BM,y}$./B04/.Hence, accepted by the project verification team.

Parameters that will be monitored (ex-post) (Mention under section B.7.1 and B.7.2 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)	253,196	MWh	The estimated net electricity generated is given, however, the value for the parameter will be verified through review of monthly meter reading records/17/. There are two meters of type Mk6E for the project activity of 0.2s/0.5s accuracy class (main meter and check meter) bidirectional meters are installed at the Pooling substation to measure and record the net electricity supplied to the grid. The meter details/17/ are provided below which was verified during the onsite visit/15/ of the project activity. Type of Meter: Serial Number Main: 214446462 Check: 214446463 The calibration of the meters/17/ is being performed as per the national regulation or requirements [8]set by the meter supplier or requirements set by the grid operators. The calibration and verification for meters need to be conducted and maintained once in every 3 years. The same is consistent with the PSF/1/. The same has been confirmed during the onsite visit /15/ and crosschecked with the calibration reports/17/. The parameter will contribute to the SDG 7.
Replacing fossil fuels with renewable sources of energy	253,196	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

[8] https://www.doc88.com/p-86316993481440.html

				records/29/
	CO_2 Emissions	209,367	tCO_2e/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.
	Noise Pollution	At actual record	Numbers	The equipment may cause noise pollution during operation. The low noise equipment have been chosen for the project activity. Noise is controlled by meeting the requirement s of Category 2 of the "Boundary Noise Emission Standard for Industrial Enterprises" (GB12348-2008)/31/
	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: Hazardous Waste Storage Pollution Control Standard (GB 18597—20231) /30/; the same will be treated and disposed of as per the law. Hazardous waste quantity generated and disposed of will be continuously monitored and recorded in the Plant logbooks or records annually. The same will be issued at the time of verification. Project verification team has crosschecked the Hazardous waste treatment contract /32/.
	Solid Waste Pollution from end-of-life products/equipment	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: E-Waste Management Amendment rules /41/; Solid waste management rules /39/ the same will be treated and disposed as per the law. Solid waste (end of life products) generated will be collected

				continuously monitored and recorded in the hazardous waste register. The same will be issued at the time of verification.	
	Solid Waste Pollution from E-Wastes	At actual record	E-waste generation (tonnes/year)	The project activity may generate E-waste during the operation of the project activity. Waste defunct/damaged , wind turbine, transformer, cable and other waste may be generated during the operation of wind power plants. E-wastes will be handled according to the national regulations: Law of the People's Republic of P.R. China on the Prevention and Control of Environmental Pollution by Solid Waste /43 /; 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. The records will be issued at the time of verification. The same is confirmed from the agreement between licensed third-party vendor /32 /.	
	Long-term jobs (> 1 year) created	At actual record	Numbers	Project activity will generate long term local employment. Project activity creates direct employment for around 20 people during the operation and maintenance of the project activity. This will be an indicator against sustainable development goal SDG 8. The parameter will be verified through employment records/28/.	
	Occupational health hazards	At actual record	Numbers	Cause of physical hazards in project sites due to human intervention or technical failure or emergency. Project proponent will record number of incident/accidents, number of HSE training conducted and compliance of use of PPE's to avoiding accidents at site. No accidents have been reported to this date. Documents will be maintained and will be	

				available during the issuance Verification. Further, All employments are done according to the national employment regulations (eg. Law of Labour of P.R. China).
	Specialized training / education to local personnel	Actual record	Number	The project provides project-related knowledge for local personnel. By training the people on new technology it will upgrade their skills and creates positive impact. The project provided the job-related training, it can be verified from the training records and attendance sheet /28/.
	Protecting/ enhancing species diversity	Actual records		Possible bird hits may occur at the early stage of project operation. Once the local birds get used to the operation of wind turbine, the possibility will decrease. Mitigation measures outlined in EIA report will be taken in case of high incidence occurred /26/. Project verification team has also checked the patrol log /19/
	The monitoring plan content has been checked in the project activity and compared against the requirements of the monitoring methodology /B02/. It has been confirmed by the verification team that the monitoring plan, procedures, roles and responsibilities provided in the PSF is deemed to be feasible.			

D.4. Start date, crediting period and duration

Means of Project Verification	Desk Review and Interviews
Findings	No findings in this section
Conclusion	The start date of the project is 10/12/2016, which is the start date of commercial operation of the project /4/. Crediting period has been chosen as fixed 10 years from 10/12/2016 to 09/12/2026. A crediting period of a maximum length of 10 years has been selected by the project owner. Therefore, the duration of the crediting period is from 10/12/2016 to 09/12/2026. Technical lifetime for the project activity is 20 years /11/, /05/. 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 Project Verification	Desk Review and Interviews
Findings	CAR 09 was raised, and findings are closed. Please refer to Appendix 4 for further details

Conclusion	The project owners conducted Environmental Impact Assessment (EIA) in 04/2016. /26/ in order to assess the impact from Wind Power Project. This is complying to the China environmental regulations and received approval Environmental Protection Administration on 28/04/2016 /27/. The project activity is complying to the following laws: • Renewable Energy Law of the People's Republic of P.R. China/33/ • Several opinions of The State Council on promoting the healthy development of photovoltaic industry/34/ • Measures for the administration of the development and construction of photovoltaic power stations. / 35/ • Environmental Protection Law of the People's Republic of China /36/. The project has benefitted the local people by engaging them in construction, operation and maintenance activities during the project. Thus, the verification team confirms that there are no adverse impacts on environment due to the implementation of project activity. 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 Verification	Desk Review and Interviews
Findings	CL 03 was raised, and findings are closed. Please refer to Appendix 4 for further details.
Conclusion	It has been indicated in the PSF /1/ that the local stakeholder consultation /40/ has been done for the project activity on 01/12/2015. The meeting announcement was done by published it on the website of China meat food comprehensive research center from October 29, 2015, to November 21, 2015, and from November 26, 2015 to December 2, 2015. The same covers meeting location, date, time, and contact information/40/. 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.

D.7. Approval and Authorization- Host Country Clearance

Means of Project Verification	Desk Review and Interviews
Findings	No findings in this section
Conclusion	The verification team confirms that no HC approval is required by the CORSIA labelled project activity till 31/12/2020, and the HCA will be required during the first or subsequent verification.

D.8. Project Owner- Identification and communication

Means of Project Verification	Desk Review and Interviews
Findings	CAR 10 was raised, and findings are closed. Please refer to Appendix 4 for further details

<table>
<tr><td>Conclusion</td><td>
<table>
<tr><td>Organization name</td><td>China Onecarbon Co., Ltd</td></tr>
<tr><td>Country</td><td>P.R.China</td></tr>
<tr><td>Address</td><td>203, 1f, No. 191, Liyuan North Street, Tongzhou District, Beijing/China/101101</td></tr>
<tr><td>Telephone</td><td>+86-13910800955</td></tr>
<tr><td>E-mail</td><td>437213329@qq.com</td></tr>
<tr><td>Website</td><td>www.china-onecarbon.com</td></tr>
<tr><td>Contact person</td><td>Siyuan LIU</td></tr>
</table>

This is in compliance with the Para 10 (i) of the Project Standard Version 3.1. The information and contact details of the representation of the project owner and project owners themselves has been appropriately incorporated in Appendix 1 of the PSF which was checked and verified by the verification team from Authorization letter signed by the project owners/09/.The project verification team has reviewed the business registration certificate/12/ of Inner Mongolia Huachen New Energy Co., Ltd with registration number 911502223976721893 (Date of establishment: 31/07/2014) and of Inner Mongolia Huachen New Energy Co., Ltd has the legal ownership of the project. All information was consistent between these documents.
</td></tr>
</table>

D.9. Global stakeholder consultation

Means of Project Verification	Desk Review and Interviews
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 22/12/2022 – 05/01/2023. 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 22/12/2022 – 05/01/2023. 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 GCC Project Verification 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 and Interviews
Findings	CAR 11 was 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 environmental impacts	Legal Requirement Status	Monitoring	Do no harm assessment Evaluation and Score
Environment – Air; CO_2 emissions	No mandatory requirement	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 found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Environment – Air; Noise Pollution	The project owner complies to Boundary Noise Emission Standard for Industrial Enterprises" (GB12348-2008)/31/	The equipment may cause noise pollution during operation. The low noise equipment have been chosen for the project activity. Noise is controlled by meeting the requirement s of Category 2 of the "Boundary Noise Emission Standard for Industrial Enterprises" (GB12348-2008)/31/	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 Hazardous wastes (EL02)	Hazardous Waste Storage Pollution Control Standard" (GB 18597-20231)/	The solid waste pollution from hazardous wastes comes from waste transformer oil, and it is temporarily stored in the hazardous Waste temporary storage room after being collected by special facilities and treated by	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.

			qualified company as per the "Hazardous Waste Storage Pollution Control Standard" (GB 18597- 201)/30/; Hazardous waste quantity generated and disposed will be continuously monitored and recorded in the Plant logbooks or records. Project verification team has crosschecked the Hazardous waste treatment contract /32/.	
	Solid waste Pollution from E-wastes (EL04)	Law of the People's Republic of P.R. China on the Prevention and Control of Environmental Pollution by Solid Waste /37/,	During the project activity, Waste defunct/damaged , wind turbine, transformer, cable and other waste may be generated during the operation of wind power plants, these are collected and stored at specific locations, and are regularly collected by the special facility and treated by qualified company as Law of the People's Republic of P.R. China on the Prevention and Control of Environmental Pollution by Solid Waste /37/	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
	Environment – Solid waste Pollution from end-of-life products/ equipment (EL06)	E-Waste Management Amendment rules /41/; Solid waste management rules /39/	The project activity may generate Waste during the operation of wind power plants, these are collected and	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.

			stored at specific locations, and are regularly collected by the special facility and treated by qualified company Law of the E-Waste Management Amendment rules /41/; Solid waste management rules /39/; Waste quantity generated and disposed will be continuously monitored and recorded in the Plant logbooks or records. The same will be available during the issuance verification.	
	Protecting/ enhancing species diversity (ENR02)	No mandatory law/regulation is related to the same.	Possible bird hits may occur at the early stage of project operation. Once the local birds get used to the operation of wind turbine, the possibility will decrease. Mitigation measures outlined in EIA report will be taken in case of high incidence occurred /26/. Project verification team has also checked the patrol log /19/ and no impact is identified.	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/regulation is related to the same.	The project activity will result in emission reduction by replacing the fossil fuels with renewable sources of energy.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.

			The same will be monitored and confirmed through the monthly generation records/29/	

The verification team confirm that the project activity will not cause any net harm to the environment and net score for project activity comes out to be +7.

D.11. Social Safeguards (S+)

Means of Project Verification	Desk Review and Interviews
Findings	CL 05 was raised, and findings are closed. Please refer to Appendix 4 for further details
Conclusion	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 Society 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 monitoring procedures of the parameters are provided.

Indicators for social impacts	Legal Requirement Status	Monitoring	Do no harm assessment Evaluation and Score
Long-term jobs (> 1 year) created/ lost (SJ01)	Host country minimal wage requirements	The Project activity generate long term local employment. This will be an indicator against sustainable development goal SDG 8. The parameter will be verified through employment records/28/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.
Occupational health hazards (SHS02)	All employments are done according to the national employment regulations (eg. Law of Labour of P.R. China).	There may be an electrocution on hazard in the wind power plant, which may cause accident and injury to employees. Documents will be maintained and	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable.

			will be available during the issuance verification. No accidents have been reported to this date.	
	specialized training / education to local personnel (SE01)	No mandatory law/regulation is related to the same	The project provided the job-related training, it can be verified from the training records and attendance sheet /28/.	Evaluation found Harmless. The same is acceptable to the GCC project verification team. Hence the scoring +1 is acceptable

Verification team is able to confirms that Project activity will not cause any net harm to the society and net score for project activity comes out to be +3.

D.12. Sustainable development Goals (SDG+)

Means of Project Verification	Desk Review and Interviews
Findings	CL 06 was raised, and findings are closed. Please refer to Appendix 4 for further details.
Conclusion	The Project owner has chosen to apply for the United Nations Sustainable Development Goals (SDG+). 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 7. Ensure access to affordable, reliable, sustainable and modern energy for all	The project activity that commissioned on 10/12/2016 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/06/ and monitored throughout the technical lifetime of the project activity. The project verification team has crosschecked the One year Joint meter reading reports /43/	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 thereby complying to the SDG target 8.5. A minimum of 20 jobs are provided by project activity. The same is monitored and confirmed from employment records/28/	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 209,367 tCO_2e meeting the SDG target 13.2. The same is confirmed from the ER sheet/02/ and monthly electricity generation report.	Project Owner meets the requirement of UN- level SDG goal. The same is acceptable to the GCC project verification team.
	An appropriate monitoring plan has been put in place for the elements. The project has achieved a certification label of silver.		

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

Means of Project Verification	Desk Review and Interviews
Findings	CL 07 was raised, and findings are closed. FAR 01 was raised. 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 10/12/2016 to 09/12/2026. 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 Verification	Desk Review and Interviews
Findings	No findings in this section.
Conclusion	The project activity meets eligible criteria for CORSIA (C+) since the crediting period is after 10/12/2016 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: 1) The Project Activity will result in GHG emission reductions as a result of implementation of the GCC project activity 2) Likely to achieve Environmental No-net harm (E+ label) as discussed in section D.10. 3) Likely to achieve Social No-net harm (S+ label) as discussed in section D.11. 4) Likely to achieve SDG+ label with Silver Certification label.

	"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".

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

CCIPL was contracted by China Onecarbon Co., Ltd for project verification of the project activity "Inner Mongolia Guyang Hongnijing 100MW Wind Power Project". The project verification was performed based on rules and requirements defined by GCC for the project activity.

The project activity is a wind power project, which results in reductions of CO_2e 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 209,367 tCO_2e /year over the 10 years crediting period starting from 10/12/2016.

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 with regard to 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 "Inner Mongolia Guyang Hongnijing 100MW Wind Power Project".

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 2,093,670 tCO_2e for the entire crediting period 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 No-net-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 3 SDGs, which is likely to achieve the silver 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 Carbo Credit Label
BM	Build Margin
CAR	Corrective Action Required
CCIPL	Carbon Check (India) Private Limited
CDM	Clean Development Mechanism
CL	Clarification Request
CM	Combined Margin
CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
DPP	Distributed Power Plants
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
FSR	Feasibility Study Report
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
I	Interview
IPCC	Intergovernmental Panel on Climate Change
ISO	International Organization for Standardization
LCMR	Low Cost Must Run
NCPG	North China Power Grid
NREL	National Renewable Energy Laboratory
O&M	Operation and Maintenance
OM	Operating Margin
PPA	Power Purchase Agreement
PSF	Project Submission Form
PVR	Project Verification Report
S+	Social No- net harm Label
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 CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Mr. Vijay Mathew

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☒ Team Leader	☒ Technical Expert
☒ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	☐ CCB Expert
☒ Financial Expert	☒ Local Expert for India		

in the following 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			

Issue Date

1st January 2023

Expiry Date

31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Ms. Nara Shen Yan

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☒ Validator	☒ Verifier	☐ Team Leader	☒ Technical Expert
☐ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☐ SDG+	☐ Social no-harm(S+)	☐ Environment no-harm(E+)	☐ CCB Expert
☐ Financial Expert	☒ Local Expert for China		

in the following 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			

Issue Date

1st January 2023

Expiry Date

31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Carbon CHECK

Carbon Check (India) Private Limited

Certificate of Competency

Mr. Shivaji Chakraborty

has been qualified as per CCIPL's internal qualification procedures in accordance with the requirements of CDM AS (V7.0), ISO/IEC14065:2020, ISO/IEC 17029:2019 and other applicable GHG programs:

for the following functions and requirements:

☐ Validator	☐ Verifier	☐ Team Leader	☒ Technical Expert
☒ Technical Reviewer	☐ Health Expert	☐ Gender Expert	☐ Plastic Waste Expert
☒ SDG+	☒ Social no-harm(S+)	☒ Environment no-harm(E+)	☐ CCB Expert
☒ Financial Expert	☒ Local Expert for India		

in the following 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			

Issue Date

1st January 2023

Expiry Date

31st December 2023

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

CCIPL_FM 7.9 Certificate of Competency_V2.1_012023

Appendix 3. Document reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Inner Mongolia Huachen New Energy Co., Ltd	PSF: Inner Mongolia Guyang Hongnijing 100MW Wind Power Project	initial PSF version 03 dated 04/12/2022 Final Version: Version 05 Dated 14/11/2023.	Project Owner
2	Inner Mongolia Huachen New Energy Co., Ltd	Emission reduction calculation spread sheet	Version 02, Dated 07/11/2023	Project Owner
3	Inner Mongolia Huachen New Energy Co., Ltd	Financial analysis worksheet, IRR-Inner Mongolia Guyang Hongnijing 100MW Wind Power Project	Version 02, Dated 07/11/2023	Project Owner
4	Inner Mongolia Huachen New Energy Co., Ltd	Commissioning report	Dated: 10/12/2016	Project Owner
5	Inner Mongolia Huachen New Energy Co., Ltd	Feasibility Study Report	Dated May 2015	Project owner
6	Inner Mongolia Huachen New Energy Co., Ltd	Power Purchase Agreement	2016 2017 2018 2019 2020 2021	Project Owner
7	Inner Mongolia Huachen New Energy Co., Ltd	EPC Contract	Dated: 04/2016	Project Owner
8	Inner Mongolia Huachen New Energy Co., Ltd	Investment Decision Meeting Document	Dated: 10/07/2015	Project Owner
9	Inner Mongolia Huachen New Energy Co., Ltd	Letter of Authorization as an Evidence for the relationship in between Inner Mongolia Huachen New Energy Co., Ltd and China Onecarbon Co., Ltd	Dated: 04/12/2022	Project Owner
10	Inner Mongolia Huachen New Energy Co., Ltd	Supportive documents on local stakeholder consultation	Dated: 01/12/2015	Project Owner
11	Inner Mongolia Huachen New Energy Co., Ltd	Technical Specification/technical agreement	05/2016	Project Owner
12	Inner Mongolia Huachen New Energy Co., Ltd	Business Certificate	25/11/2021	Publicly available
13	Inner Mongolia Huachen New Energy Co., Ltd	O & M agreement	01/01/2023	Project Owner
14	Inner Mongolia Huachen New	Purchase Order	April 2016	Project Owner

	Energy Co., Ltd			
15	CCIPL	Onsite visit documents dated 25/06/2023	Dated 25/06/2023	CCIPL
16	Ministry of Ecology and Environment of the People's Republic of China	2019 Annual Emission Reduction Projects China Regional Power Grid Baseline Emission Factors https://www.mee.gov.cn/ywgz/ydqhbh/wsqtkz/202012/t20201229_815386.shtml		Publicly available
17	Inner Mongolia Huachen New Energy Co., Ltd	Meter Details: Main and Check meter	24/05/2017 24/05/2018 24/05/2019 24/05/2020 10/05/2021 21/04/2022 19/04/2023	Project Owner
18	State Power Corporation of China	Interim Rules on Economic Assessment of Electrical Engineering Retrofit Projects Microsoft Word - Annex 1a.doc (unfccc.int)	2002	Publicly Available
19	Inner Mongolia Huachen New Energy Co., Ltd	Patrol log	2016 2017 2018 2019 2020 2021 2022 2023	44
20	State Council of China	Provisional Regulations of the People's Republic of China on Value Added Tax, [1993] No.134\ http://www.asianlii.org/cn/legis/cen/laws/prov365/	1993	Project Owner
21	ICAO	CORSIA eligibility https://www.icao.int/environmental-protection/CORSIA/Pages/TAB.aspx		Publicly Available
22	Ministry of Justice of the People's Republic of China	Law of People's Republic of China on Enterprise Income Tax, President decree No.63 http://www.asianlii.org/cn/legis/cen/laws/prov365/		Publicly Available
23	State Tax Bureau of	Notice on Determination of	2005	Publicly

	China	Residual Rate for Enterprise Fixed Asset, Guo Shui Han [2005] No.883 http://www.chinatax.gov.cn/n810365 06/n8136563/n8193451/n8193526 /n8194270/8245508.html		Available
24	State Council of China	Depreciation Rates Implementation Rules of Enterprise Income Tax Law of People's Republic of China, State Council Document No.512 http://www.gov.cn/zwgk/2007-12/11/content_830645.htm		Publicly Available
25	State council of China	Provisional Regulations of the People's Republic of China on Urban Maintenance and Construction Tax, Guo Fa [2016] No.280 国家税务总局关于撤县建市城市维护建设税具体适用税率的批复 (qq.com)		Publicly Available
26	State Environmental Protection Administration	Environmental Impact Assessment	April 2016	Others
27	State Environmental Protection Administration	Approval of Environmental Impact Assessment Report	2016	Project Owner
28	Inner Mongolia Huachen New Energy Co., Ltd	1) Employment details related to the project activity 2) Salary details of employees associated with the project activity 3) Training details of employees related to the project activity.		Project Owner
29	Inner Mongolia Huachen New Energy Co., Ltd	Generation and Invoice Records	2017	Project Owner
30	National Standards of Republic of China	Hazardous Waste Storage Pollution Control Standard" (GB 18597- 2001 https://www.mee.gov.cn/ywgz/fgbz /bz/bzwb/gthw/wxfwjbffbz/202302/ W020230224679408713470.pdf	2001	Publicly available
31	National Standards of Republic of	Boundary Noise Emission Standard for Industrial Enterprises"	2008	Publicly available

	China	(GB12348- 2008)		
32	Inner Mongolia Huachen New Energy Co., Ltd	Hazardous waste agreement	2023	Project Owner
33	State Council of China	Renewable Energy Law of the People's Republic of P.R. China http://www.gov.cn/ziliao/flfg/2005-06/21/content_8275.htm		Publicly available
34	State Council of China	Opinions of the National Development and Reform Commission and the National Energy Administration on improving the institutional mechanisms and policy measures for the green and low-carbon energy transition https://www.ndrc.gov.cn/xxgk/zcfb/tz/202202/t20220210_1314511.html		Publicly available
35	State Council of China	Interim Measures for the Administration of Wind Power Development and Construction http://sxsnyj.shaanxi.gov.cn/POLICY/cxwj/Aje6Vv000010043299991010743.htm		Publicly available
36	Standing Committee of the Seventh National People's Congress	Environmental Protection Law of the People's Republic of China http://www.law-lib.com/law/law_view.asp?id=6229		Publicly available
37	Ministry of Ecology and Environment of the People's Republic of China	https://www.mee.gov.cn/ywgz/fgbz/fl/202004/t20200430_777580.shtml Law of the People's Republic of P.R. China on the Prevention and Control of Environmental Pollution by Solid Waste		
38	Inner Mongolia Huachen New Energy Co., Ltd	Loan Agreement	2021	Project owner
39	Ministry of Ecology and Environment of the People's Republic of China	Solid waste management rules https://www.mee.gov.cn/ywgz/fgbz/fl/202004/t20200430_777580.shtml		
40	Inner Mongolia Huachen New Energy Co., Ltd	LSC documents	01/12/2015	Project owner

41	Ministry of Ecology and Environment of the People's Republic of China	https://www.mee.gov.cn/ywgz/fgbz/xzfg/201909/t20190918_734319.shtml E-Waste Management Amendment rules		
42	Inner Mongolia Huachen New Energy Co., Ltd	Grid connection agreement		
43	Inner Mongolia Huachen New Energy Co., Ltd	Joint meter reading and invoices	2017	
B01	GCC	1. GCC Project Standard, version 3.1 2. GCC Verification Standard, version 3.1 3. GCC Program Manual, version 3.1 4.Environment-and-Social-Safeguards Standard, version 3 5. Project-Sustainability-Standard, version 3.1 6. GCC clarification no.1, Version 1.2		Others
B02	UNFCCC	CDM Methodology: ACM0002: Grid-connected electricity generation from renewable sources, version 21		Others
B03	GCC	PSF template, V4		Others
B04	UNFCCC	Methodological tool 01: Tool for the demonstration and assessment of additionality, Version 07		Others
B05	UNFCCC	Methodological tool 07: Tool to calculate the emission factor for an electricity system, version 07		Others
B06	UNFCCC	Methodological tool 27: Investment analysis, version 12		Others
B07	UNFCCC	Methodological tool 24: Common practice, version 3.1		Others
B08	UNFCCC	Methodological Tool 10: Tool to determine the remaining lifetime of equipment, version 1.0		

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

Table 1. CLs from this Project Verification

CL ID	01	**Section no.**	D.1	**Date:** 28/07/2023
Description of CL				
1) New template for PSF is available and PO is requested to use the updated template in the GCC website.				
Project Owner's response				**Date:** 14/08/2023
PSF has already used the new template.				
Documentation provided by the Project Owner				
Revised PSF				
GCC Emission Reduction Verifier's assessment				**Date:** 12/09/2023
PO has updated the PSF template. PO is requested to clarify how the project activity is meeting the eligibility criteria to submit as A2 type project as per the requirements of GCC. The project requires more details on the corresponding section. Hence CL 01 is open.				
Project Owner's response				**Date:** 07/11/2023
The project is eligible to register A2 type project since the project owner has submitted a complete initial submission to GCC program before July 5th 2022.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				Date: 08/11/2023
The justification provided by PO is found to be appropriate and hence, CL 01 is closed				

CL ID	02	**Section no.**	D.3.7	**Date:** 28/07/2023
Description of CL				
Background: the requirements of paragraph 48 (b) and (c) of GCC PSF Filling instructions and paragraph 60 of the GCC project standard version 3.1. 1. Project owner is requested to provide the JMR details and invoices as mentioned in the PSF. 2. Project owner is requested to provide supportive documents regarding metering details. Since, the project activity started operations from 2016 and the type is A2, PO is requested to provide the JMR details of one year for substantiating actual PLF.				
Project Owner's response				**Date:** 14/08/2023
1.The JMR details and invoices has been provided in folder 10 Electricity invoices 2017. 2.Documents regarding metering details has been provided in folder 13 Meter calibration certificate.				
Documentation provided by the Project Owner				
2017 Electricity invoices,Meter calibration certificate				
GCC Emission Reduction Verifier's assessment				Date: 12/09/2023
1. PO has provided one year generation details and are found appropriate. Hence this part of CL 02 is closed. 2. PO has supplemented the calibration details w.r.t one meter only. The serial number mentioned in the calibration certificate is not in line with the site visit photographs and PO is requested to clarify the same. Further, PO is requested to provide the calibration certificate for both the main meter and check meter. The project requires more details on the corresponding section. Hence CL 02 is open.				
Project Owner's response				**Date:** 07/11/2023
We have reissued the meter calibration certificate,and meter's details has been added in section B.7.1.				
Documentation provided by the Project Owner				
Meter calibration certificate				

GCC Emission Reduction Verifier's assessment	Date: 08/11/2023
The project verification team has crosschecked the Meter calibration reports and meter details found to be appropriate. Hence, CL 02 is closed.	

CL ID	03	**Section no.**	D.6	**Date:** 28/07/2023
Description of CL				
Project Owner is requested to provide supportive documents/evidence as per paragraph 71-73 of the GCC PSF Filling instructions viz. minutes of the meeting, filled feedback forms, invitation details, attendance details, photograph etc related to Local stakeholder consultation.				
Project Owner's response				**Date:** 14/08/2023
Completed according to GCC PSF instructions in paragraphs 71-73, provided meeting minutes (folder 05 The Local stakeholders meeting, named The Local stakeholders meeting), filled feedback forms (Stakeholder questionnaire), attendance details (Stakeholder meeting sign-up form).				
Documentation provided by the Project Owner				
The Local stakeholders meeting,Stakeholder questionnaire,Stakeholder meeting sign-up form				
GCC Emission Reduction Verifier's assessment				Date: 12/09/2023
In the stakeholder meeting sign up form and meeting minutes, the date mentioned is 01/12/2015 which is not inline with the PSF. PO is requested to clarify. Further, in the second public announcement, the date mentioned is 03/12/2015, which is after the LSC date, PO is requested to clarify. Further, PO is requested to provide Photographs with respect to the LSC. The project requires clarification and more details on the corresponding section. Hence CL 03 is open.				
Project Owner's response				**Date:** 30/10/2023
Local stakeholder consultation process was conducted from 29 October to 2 December of 2015, local stakeholder meeting was hold on 01/12/2015. 03/12/2015 is not mentioned in PSF.				
Documentation provided by the Project Owner				
LSC conference photo				
GCC Emission Reduction Verifier's assessment				Date: 30/10/2023
The Project verification team has crosschecked the evidence provided by the PO and accepted the same and hence, CL 03 is closed.				

CL ID	04	**Section no.**	D.3.5	**Date:** 28/07/2023
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." VVB has observed that PO has not provided the sources for the input parameters in section of B.5; This approach raises concern on the overall investment analysis and input parameters. PP is requested to clarify this, while doing so, please provide evidence for; 1) input value used for the investment analysis. 2) all documents as stated in annexure 1 of VVB plan (supportive document for actual project cost, power purchase agreement, factory license,3 months invoice report w.r.t electricity sales etc.). PO has provided the Power purchase agreement, however, the date of expiry of agreement is 2022, and PO is requested to provide PPA till the date since, the start date of project activity is in the year 2016. 3) The PPA provided by the PO is issued in the year 2021, and the investment decision date of the project activity is 2021. Hence, PO is requested to substantiate the basis of decision of investment on the project.				

4) PO is requested to provide the grid connection agreement, grid connection dispatch agreement as mentioned in PPA, section 3.1.2
5) third party energy yield assessment report for PLF considered for ER estimation and for Investment analysis.
6) The values provided in the input parameters need to be consistent with that of IRR. Also, PO is requested to provide the input parameters that mentioned in the IRR, in the PSF as well. PO is requested to correct the same.
7) Project owner is requested to comply to the requirements of paragraph 49 and 50 of the GCC project standard Version 3.1 and paragraph 10 & 16 of CDM Methodological tool: TOOL27: Investment analysis.
8) The calculation done in common practice analysis is not accurate and PO is requested to correct the same. Further, PP is requested to provide the supportive link related to common practice analysis, ie. China Electeic Power Yearbook. The Start date mentioned in common practice is the operational start date and while demonstrating the common practice, the start date have to be taken as per the definition in CDM glossary, which is the investment decision date. PO is requested to correct the same.
9) PO is requested to provide the investment decision date and substantiate the basis for selection of investment decision date, and to provide the documents which related to the same.
10) PO is requested to provide Loan agreement and Loan sanction letter.
11) PO is requested to present the breaching point or description of levels of variations at which benchmark will be crossed.
12) The O&M contract signing date is 2023, which is after the start date of the project. PO is requested to provide justification for the gap identified since the investment decision date is 2015. Also, PO is requested to substantiate the basis of O&M cost, investment cost at the time of investment decision.

Project Owner's response	**Date:** 14/08/2023

1. The values used for investment analysis are derived from research and have been provided in folder 03 FSR.
2. PPA has been provided in folder 15 Power purchase agreement .2016 PPA was lost.
3. The PPA is not evidence of an investment decision and the investment decision date for the project activity is 2015. Evidence of the timing of the investment decision has been provided（Folder 02， The investment decision meeting）
4. The grid connection agreement and grid connection dispatch agreement has been provided in folder 11 Grid-connected scheduling protocol &Grid-connected protocol.
5. FSR has been provided.
6. We have corrected and provided an updated version of the IRR table in folder Updated PSF,IRR,LOA.
7. Compliance with paragraphs 49 and 50 of the GCC Project Standard version 3.1 and paragraphs 10 and 16 of the CDM Methodological tool has been complied with: Tool 27: Investment analysis.
8. Modified in section B.5 of PSF.
9. Evidence of the date of the investment decision has been provided（Folder 02， The investment decision meeting）
10. Loan agreement has been provided in folder 12 Loan agreement.
11. B.5 of PSF has been revised.
12. The operating cost and investment cost of the investment decision are derived from the feasibility study report

Documentation provided by the Project Owner

The investment decision meeting,IRR-Huachen_100MW_Wind Power Project,2017-2021 PPA,Grid-connected protocol,2016-2019Grid-connected scheduling protocol,2019-2024Grid-connected scheduling protocol.

GCC Emission Reduction Verifier's assessment	**Date: 09**/10/2023

1.The input values used in the PSF are not consistent with the IRR sheet. PO is to clarify/revise the same.

2. PO has provided the supportive. Hence this part of CL is closed.

3.The tariff rate which is the income for electricity generation is sourced from PPA. Without, PPA, on what basis the investment decision has been made, PO is requested to clarify.

4.PO has provided the supportive and found acceptable. Hence this part of CL is closed.

5. The input values used in the PSF are not consistent with the IRR sheet. PO is to clarify/revise the same.

6.PO has provided the FSR. Hence this part of CL is closed.

7.PO has updated the PSF. However, the same will be closed on the closure of CAR 07.

8.PO is requested to provide the calculation part of the common practice as per version of Version 03.1 of the common practice analysis. Further, PO is requested to provide justification for which the project is additional as per paragraph 18 of section 5 of tool 24 common practice.

9.PO has provided the supportive document. Hence this part of CL is closed.

10. PO has provided the loan agreement

11.PO has revised the PSF and are found acceptable. Hence this part of CL is closed.

12.the justification provided by the PO is found appropriate. Hence this part of CL is closed.

The project requires more details on the corresponding sections. Hence CL 04 is open.

Project Owner's response	**Date: 07/11/2023**
1. IRR sheet has been updated. 3.The tariff rate which is the income for electricity generation is sourced from FSR p229.The investment decision has been made on the basis of FSR.The tariff rate in PPA is the same as the one in FSR. 4.IRR sheet has been updated. 7.Section A.6 have been modified. 8.Modified again in section B.5 of PSF.	
Documentation provided by the Project Owner	
IRR-Huachen_100MW_Wind Power Project,Construction and installation contract	
GCC Emission Reduction Verifier's assessment	**Date: 08/11/2023**
1) The values provided in IRR and PSF are now consistent. 3) The justification found to be appropriate. 4) IRR sheet is updated and project verification team has crosschecked the same. 7) Section A.6 is revised with mentioned changes. 8) The changes made in B.5 of PSF is found to be appropriate. Hence, CL 04 is closed.	

CL ID	05	**Section no.**	D.11	**Date:** 28/07/2023
Description of CL				
1. Project owner is requested to provide clarification on how the social safeguard indicators viz. new Long- term jobs created/lost, specialized training /education to local personnel, Project related knowledge dissemination effective or not are selected; project owner needs to clarify, how appropriate these indicators are with respect to the project activity, while doing so please provide credible evidences related to the social safeguards assessment viz, employment details, documents related to training, i.e., Time, hours, no. of employees attended etc.				

Project Owner's response	**Date:** 14/08/2023
During the operation of the project, 20 employees were employed (the evidence file is in the folder 05 Employee roster), the number of employees will be monitored annually, the employees will be trained during the operation of the project, and the dissemination of renewable energy related technologies will be carried out (see Employee training records). All of these factors are real and positive effects of the project.	
Documentation provided by the Project Owner	
Employee training records，Employee roster	
GCC Emission Reduction Verifier's assessment	**Date:** 12/09/2023
1. In the PSF, additional table has been added to address the key environment and social impacts. PO is requested to address the impacts as per the indicative list in the section of E.1 and E.2 in the provided tables only, and no additional tables have to be added. 2. For the parameter, "Project related knowledge dissemination effective or not", PO has submitted training records as supportive evidence. PO is requested to Justify how the project will improve knowledge dissemination, since it is different from the project related trainings. Further, monitoring plan is not provided for the same parameter. The project requires more details on the corresponding section. Hence, CL 05 is open.	
Project Owner's response	**Date:** 30/10/2023
1. Additional tables has been deleted. 2. We have made some change in section E.2 and B.7.1."Project related knowledge dissemination effective or not" has been deleted,"Reducing / increasing accidents" has been added. Relevant evidence has been provided.	
Documentation provided by the Project Owner	
Safety training report	
GCC Emission Reduction Verifier's assessment	**Date: 02/11/2023**
The changes made by PSF are found to be appropriate and hence, CL 05 is closed.	

CL ID	06	**Section no.**	D.12	**Date:** 28/07/2023
Description of CL				
1. Project owner is requested to provide Credible evidence for each of the applied 3 SDGs for the project activity (7, 8, 13) including a demonstration as how the project activity contributes to sustainable development goals as claimed. 2. In section F of PSF, PO has mentioned the SDG target indicator number only and is requested to provide the indicator names as well. Further, for substantiating the indicator 8.5, PO is requested to provide the employment records of males and females, salary slips, etc. 3. PO is requested to substantiate the selection of goal 13.3 as it refers to Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning. 4. Project owner is requested to comply with the paragraph 22(b) of section 5.2 of the project sustainability standard version 3.1.ie., Project Owners shall assess the relationship, linkage, and impact of the chosen SDG goals, as stated in section F of the PSF, on Environment and Social impacts, as stated in Section E of the PSF, of the project activity				
Project Owner's response				**Date:** 14/08/2023
1. For 3 SDGs, We provided the evidence in the folder 04 SDGs. 2. We added the indicator name in section F of PSF. 3. We have changed goal 13.3 to goal 13.2 in section A.1 and section F of PSF. 4. Supplementary tables have been added to the SDG tables				
Documentation provided by the Project Owner				
Electricity quantity report,Employee roster,Employee training records				
GCC Emission Reduction Verifier's assessment				**Date:** 09/10/2023
1.PO has provided the supportive documents and ae found acceptable. Hence this part of CL is closed.				

2.PO has revised the PSF and provided supportive documents. However, PO is also requested to provide salary slips as mentioned. 3.PO has revised the PSF and found appropriate. Hence this part of CL is closed. 4.Project owner is requested to comply with the paragraph 22(b) of section 5.2 of the project sustainability standard version 3.1.ie., Project Owners shall assess the relationship, linkage, and impact of the chosen SDG goals, as stated in section F of the PSF, on Environment and Social impacts, as stated in Section E of the PSF, of the project activity. The project requires more details on the corresponding section. Hence CL 06 is open.
Project Owner's response **Date:** 30/10/2023
3. Salary slips have been provided. 4. Section F have been modified.
Documentation provided by the Project Owner
Salary slips
GCC Emission Reduction Verifier's assessment **Date: 02/11/2023**
Section F have been modified and salary slips has been provided. The changes made found to be appropriate and hence CL 06 is closed.

CL ID	07	**Section no.**	D.13	**Date:** 28/07/2023
Description of CL				
Project Owner is requested to demonstrate, how the project activity is meeting the CORSIA requirements under para 16 of section A.6 of the PSF. Further PO is requested to demonstrate GCC standard for double counting. Ie., PO is requested to demonstrate the Project activity is not been registered or applied/rejected under any other GHG programmes like CDM, GS, VCS and how they have complied on standards on avoidance of double counting.				
Project Owner's response				**Date:** 14/08/2023
Please see Section E and F： The Project Activity has not caused any net harm to the environment and/or society and therefore achieves Environmental No-net-harm Label (E +) and Social No-net harm Label (S +). The Project activity has not been registered or applied/rejected under any other GHG programmes like CDM, GS, VCS.There is no double counting for the project.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				**Date:** 09/10/2023
PO is requested to demonstrate that the project activity is complying to the requirement provided under section A.6 of PSF. The project requires more details on the corresponding section. Hence CL 07 is open.				
Project Owner's response				**Date:** 30/10/2023
Section A.6 have been modified.				
Documentation provided by the Project Owner				
Revised PSF				
GCC Emission Reduction Verifier's assessment				**Date: 02/11/2023**
Section A.6 has been modified and the updations made are found to be appropriate and hence, CL 07 is closed.				

Table 2. CARs from this Project Verification

CAR ID	01	Section no.	D.3.7	Date: 28/07/2023
Description of CAR				
Background: Instructions in the PSF filling guidelines in PSF template, Version 04 As per Paragraph 13, do not modify or delete tables and their columns in this form. Add rows to the tables as needed. Add additional appendices as needed. 1. PO has deleted the column in the Data / Parameter Table2. Viz. Measurement/ Monitoring equipment in section B.7.1., B.6.2. PO is requested to correct the same. In B.6.2, PO is requested to provide the calculation method in detail. Also, PO is requested to provide details of measurement equipment in all relevant sections. 2. PO has used EGout,y, EGin,y as parameters in Section B.7.1, which is mentioned to be sourced from methodology ACM0002. However, the mentioned parameters are not mentioned in methodology and PO is requested to correct it or to provide clarity on the same. 3. Project Owner is requested to provide the national regulation/standard with respect to calibration frequency of the energy meters. In the PSF the calibration frequency is selected as once in 2 years. Project owner is requested to, provide the supportive link for the national regulations. Further, PO is requested to provide the calibration reports of the meters. 4. In the parameter EGfacility,y (EGP,J,y) PO is requested to fill all the details, viz, details of energy meters in the monitoring/equipment section, calibration frequency, calibration regulations as per paragraph 48(c) of the section B.7.1 of the PSF guidelines. 5. In tables for SDG parameters monitoring in B.7.1, PO is requested to provide the name of parameters inline with that of section F of PSF.				
Project Owner's response				**Date:** 14/08/2023
1. We checked the issue and we did not remove the columns in Data/Parameters Table 2. We have made a change in b.7 of PSF. 3. The national regulation/standard with respect to calibration frequency of the energy meters is provided in folder 06 Verification regulation of electronic AC watt-hour meter. 4. EGfacility,y is calculated according to the formula：$EG_{facility,y} = EG_{out,y} – EG_{in,y}$ 5. We have made a change in B.7.1				
Documentation provided by the Project Owner				
Verification regulation of electronic AC watt-hour meter				
GCC Emission Reduction Verifier's assessment				**Date: 12/09/2023**
1. PO is requested to provide details of measurement equipment in all relevant sections viz B.7.1., B.6.2. Further, . In B.6.2, PO is requested to provide the calculation method in detail. 2.The details provided by the project are found appropriate.Hence this part of CAR is closed. 3. PO has supplemented the calibration details w.r.t one meter only. The serial number mentioned in the calibration certificate is not in line with the site visit photographs and PO is requested to clarify the same. Further, PO is requested to provide the calibration certificate for both the main meter and check meter. 4.PO is requested to provide details of energy meters in the monitoring/equipment section for the parameter "EGfacility,y (EGP,J,y" in the section B.7.1. The project requires more details on the corresponding section. Hence CAR 01 is open.				
Project Owner's response				**Date:** 30/10/2023
1.The calculation method in detail have been provided in B.6.2. Details of measurement equipment have been provided in B.7.1 and B.6.2. 3.The calibration certificate for both the main meter and check meter has been provided. 4.We have made a change in B.7.1.				
Documentation provided by the Project Owner				
Revised PSF.				

GCC Emission Reduction Verifier's assessment	Date: 02/11/2023
1)The calculation method is provided and the same is found to be appropriate. 3) The project verification team has crosschecked the calibration certificate and the same is found to be appropriate. 4) The changes made in PSF is accepted. Hence, CAR 01 is closed.	

CAR ID	02	Section no.	D.3.7	Date: 28/07/2023
Description of CAR				
Background: Paragraph no. 13 of Environment and Social Safeguards Standard, V.3 1. All aspects which are assessed to have a positive impact on the environment and society shall list the monitoring parameters under section B.7.1 of the PSF. All those aspects which are assessed to have a negative impact on the environment and society, irrespective of whether they have been assessed to be "harmless" or "harmful", shall include the monitoring parameters under section B.7.2 of the PSF document. PO has provided the parameters having both negative and positive impacts under the section B.7.1. and is requested to comply to the mentioned requirement. 2. According to para 22 of Environment and Social Safeguards Standard, V.3, To justify an impact is "harmless" as per the national legal/regulatory/voluntary corporate requirement, monitoring is mandatory to demonstrate the compliance. If certain impacts are not being monitored at the time of submission of PSF, a monitoring plan of such indicators should be in place and such indicators shall be listed as monitoring parameters. The design documents cannot be considered as the proof of compliance and will not be continued to be treated as "Harmless" ex-post. PO is requested to implement monitoring plan for all relevant parameters used in section E.1, E.2 consistently. For some parameters monitoring details are not provided. Further, the details in E.1 and E.2 have to be consistent with the monitoring plan in section B.7				
Project Owner's response				**Date:** 14/08/2023
1. We have checked section B.7.1 of PSF , positive and negative impact has been listed. 2. We made some changes,E.1 and E.2 are consistent with the monitoring plan in section B.7.				
Documentation provided by the Project Owner				
Revised PSF				
GCC Emission Reduction Verifier's assessment				**Date: 09/10/2023**
1. The project verification team has checked the same and found out that the same not being addressed in PSF. All those aspects which are assessed to have a negative impact on the environment and society, irrespective of whether they have been assessed to be "harmless" or "harmful", shall include the monitoring parameters under section B.7.2 of the PSF document. PO has provided the parameters having both negative and positive impacts under the section B.7.1. and is requested to comply to the mentioned requirement. Kindly correct the same. 2.Please refer to CAR 11 for details. The project requires more details on the corresponding section. Hence CAR 02 is open.				
Project Owner's response				**Date:** 30/10/2023
1. We made some changes in section B.7.1. 2. The solid waste pollution has been considered,and we have made some changes in section E and section B.7.2.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				**Date: 02/11/2023**
1) The changes made in the PSF are found to appropriate.				

2) The project verification team has crosschecked the Section E and B.7.1, B.7.2 of PSF and revisions are acceptable. Hence, CAR 02 is closed.

CAR ID	03	**Section no.**	D.2	**Date:** 28/07/2023
Description of CAR				
1. In basic information section, PO has checked the tick box against the “Gold” SDG Label whereas as per section F of the PSF, the same is silver. PO is requested to consistently provide the SDG labelling details in all relevant sections. Also, PO is requested to check the box of “Host Country Attestation on Double counting” in basic information section of PSF. Further, PO is requested to use the font consistently throughout the report as per the requirements of the template as per the paragraph 12 of PSF filling guidelines. 2. PO has given the capacity of Project activity as 100 MW and is requested to provide whether it is AC or DC capacity. 3. PO is requested to provide the estimates of annual average and total GHG emission reductions for the chosen crediting period clearly and distinctly in section A.1 of PSF. 4. PO is requested to provide the location details of all the wind turbines in section A.2, basic information section and all relevant sections of PSF. While doing the same, PO is also requested to contain the location details not exceeding one page in the section A.2. 5. PO is requested to comply to the requirements of paragraph 6 to 11 of PSF filling guidelines; The arrangement of the facilities, the monitoring equipment and their location in the systems, the age and average lifetime of the equipment based on the manufacturer’s specifications and industry standards, the existing and forecast installed capacities, load factors and efficiencies, technology transfer etc. 6. PO is also requested to provide supportive documents for the technical specifications. 7.Project Owner is requested to describe and provide supportive documents for the age and average lifetime of the equipment based on the manufacturer’s specifications and industry standards as per para 8 of section A.3. 8. PO is requested to list the Project Owner(s) involved in the Project Activity in line with the LOA/LON, and provide contact information for each Project Owner in Appendix 01, the end of the PSF as per para 12 of PSF filling guidelines. 9. In section A.5 of PSF, PO is requested to provide the details of entities. Further, the purpose of ACCs to be supplied is not provided. Also, in the quantity provided, it is not clear whether the value is annual, or for the entire crediting period.				
Project Owner’s response				**Date:** 14/08/2023
1. We made some changes in basic information section. 2. We made some changes in section A.1. 3.The estimates of annual average and total GHG emission reductions has been provided in section A. 4.The location details of all the wind turbines has been provided in basic infomation. 5. We made some changes in section A.3. 6. Technical agreement is the technical specifications. 7.Technical agreement includes the life of the equipment. 8.All the project owners has been added to APPENDIX 1 of PSF 9.We made some changed in section A.5.				
Documentation provided by the Project Owner				
Technical agreement Revised PSF				
GCC Emission Reduction Verifier’s assessment				**Date: 02/11/2023**
1)The changes made by PO is found to be appropriate. 2) The same is acceptable. 3) The values are provided in PSF and found to be appropriate. 4) The location details are found to be appropriate. 5) PO has made some changes. 6)PO has crosschecked the details specified in the technical agreement and the same in found to be appropriate.				

7) The project verification team has crosschecked the same with technical agreement and the same is found to be appropriate. 8) The project owner details are provided in appendix 1 of PSF and same is inline with LOA. 9) The PO has made changes and the same is acceptable. Hence, CAR 03 is closed.

CAR ID	04	**Section no.**	D.3.1	**Date:** 28/07/2023
Description of CAR				
1) PO has not used the latest version of methodology, ACM0002 Version 21. Since the Methodology version 20 is expired, PO is requested to use the latest version of methodology. 2) PO has used the Version 11 of Tool 27, investment analysis. Since, the latest version is available, PO is requested to use the latest version or to provide clarification for the same not being used. Further, PO is requested to provide the applicability conditions and justification for all the tools.				
Project Owner's response				**Date:** 14/08/2023
1. The version number of ACM0002 in PSF has been changed to version 21.0 2. The full text of PSF has been checked and amended. The applicability justification is provided for the paragraph 3 of the Tool 07 in B.2 section of PSF.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				**Date: 09/10/2023**
1.The eligibility criteria and justification provided for the methodology ACM0002, Version 21.0 in the section B.2 is not provided. Project owner is requested to justify the choice of the selected methodologies and tools as per paragraph 19 of the PSF filling guidelines. 2.PO has revised the PSF and are found appropriate. Hence this part of CAR is closed. The project requires more details in the corresponding sections. Hence CAR 04 is open.				
Project Owner's response				**Date:** 30/10/2023
1.We made some changes in section B.2.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				**Date: 02/11/2023**
The PO has provided the applicability conditions as per the methodology and tools. However, PO has used Tool 05 and is requested to provide the justification for using the same. Hence, CAR 04 is open.				
Project Owner's response				**Date: 07**/11/2023
We made some changes in section B.2, Tool 05 wasn't used, so it was deleted.				
Documentation provided by the Project Owner				
Revised PSF.				
GCC Emission Reduction Verifier's assessment				**Date: 08/11/2023**
The revisions made in PSF has been checked by the Project verification team, and the same is found to be appropriate and hence CAR 04 is closed.				

CAR ID	05	**Section no.**	D.3.3	**Date:** 28/07/2023
Description of CAR				
Background: Paragraph number 21-23 of the PSF filling guidelines. 1) In the section B.3 of PSF, PO has given a flow diagram. However, the metering location is not				

provided, and the PO is requested to provide the same. 2) PO is requested to comply to the requirements of para 21 of PSF filling guidelines, ie. PO is requested to define the project boundary clearly. Further, in the Table provided in the section B.3, the explanation or justification concerned to this Project activity is not provided.
Project Owner's response **Date:** 14/08/2023
1. The metering location has been provided in B.3 of PSF. 2. We have made a change in B.3.
Documentation provided by the Project Owner
GCC Emission Reduction Verifier's assessment **Date: 12/09/2023**
1. PO is requested to clarify whether the location of the meter indicates M1 and M2. If so,PO is requested to confirm the number of meter in the project activity. 2. Since the project activity is wind power plant, project owner is requested to provide justification/explanation with respect to the wind project activity. The project requires more details in the corresponding section. Hence CAR 05 is open.
Project Owner's response **Date:** 30/10/2023
1.We have made a change in B.3 2.We have made a change in B.3
Documentation provided by the Project Owner
GCC Emission Reduction Verifier's assessment **Date: 31/10/2023**
The changes made in the PSF are found to be appropriate and hence, CAR 05 is closed.

CAR ID	06	**Section no.**	D.3.4	**Date:** 28/07/2023
Description of CAR				
Background: Paragraph number 24-29 of the PSF filling guidelines 1. PO is requested to provide a transparent description of baseline scenario in section B.4 of PSF. While doing the same, PO is requested to comply to the requirements of para 24-29 of PSF filling guidelines. As per the same, PO is requested to describe how the relevant national and/or sectoral policies, regulations and circumstances are taken into account, list the relevant national laws and policies that taken into account, provide a list of facilities, systems, and equipment in the baseline scenario, and clearly explain how the same types and levels of services provided by the Project Activity would have been provided in the baseline scenario etc. 2. PO is requested to provide the E+/E- policy consideration in baseline scenario by considering the as per UNFCCC EB 54 annex 03				
Project Owner's response				**Date:** 14/08/2023
1. The section B.4 of PSF has been revised. 2. For this projects, the baseline is the grid, so there is no E+/ E-policy to influence and determine the baseline.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				**Date: 12/09/2023**
1.PO is requested to comply with the paragraphs 24-29 of the PSF filling guidelines as mentioned above. 2. PO is requested to provide the E+/E- policy consideration in baseline scenario by considering the as per UNFCCC EB 54 annex 03 as mentioned above. The project requires more details in the corresponding section. Hence CAR 06 is open				
Project Owner's response				**Date:** 30/10/2023
1. We have made a change in B.4.				

2. he relevant national and/or sectoral policies, regulations and circumstances are taken into account for the implementation of the project activity, such as Renewable Energy Law of the People's Republic of P.R. China[http://www.gov.cn/ziliao/flfg/2005-06/21/content_8275.htm] ,Opinions of the National Development and Reform Commission and the National Energy Administration on improving the institutional mechanisms and policy measures for the green and low-carbon energy transition[https://www.ndrc.gov.cn/xxgk/zcfb/tz/202202/t20220210_1314511.html] ,and Interim Measures for the Administration of Wind Power Development and Construction[http://sxsnyj.shaanxi.gov.cn/POLICY/cxwj/Aje6Vv000010043299991010743.htm] .The State encourages economic entities of all forms of ownership to participate in the development and utilization of renewable energy including wind energy, and protects the legitimate rights and interests of those who develop and use renewable energy according to law. Implementation of wind power generation project is not enforced by any laws and regulations in China. There are no enforced laws, statutes, regulations, court orders, environmental-mitigation agreements, permitting conditions of other legally binding mandates requiring its implementation.
Documentation provided by the Project Owner
GCC Emission Reduction Verifier's assessment **Date: 31/10/2023**
The PO has provided justification and the same is acceptable and hence, CAR 06 is closed.

CAR ID	07	**Section no.**	D.3.5	**Date:** 28/07/2023
Description of CAR				
1.Start date (investment date and chronology should be mentioned properly without missing any major event. PO is requested to provide the same. 2.While providing DPR as reference for the input parameters, PO has not provided the preparation date and details regarding the publisher and PO is requested to provide the same. 3. PO is requested to provide references of rules, laws and regulations applicable to the project activity in order to prove the project is not enforced by law. 4. The IRR sheet parameters are not linked while calculating the sensitivity analysis and IRR. PO is requested to provide the linkage for parameters in IRR. 5. PO is requested to provide outcomes of all the steps provided in the section of additionality. 6. The benchmark of Project IRR (after tax) is taken as per in the Chinese power generation industry. However, PO has used the value of year 2003. Po is requested to clarify how the same is still applicable since the date of investment decision is 2015.				
Project Owner's response				**Date:** 14/08/2023
he schedule of major events of the project has been supplemented in PSF section B.5 2.The preparation date and details regarding the publisher of FSR have been provided. 3.Folder 08 Renewable Energy Law of the People's Republic of China, Renewable Energy Law of the People's Republic of China, Article 13 of Chapter IV of the document mentions that the state encourages 4.An updated version of IRR is provided in folder Updated PSF,IRR,LOA. 5.The outcomes of all the steps have been provided in section B.5. 6.At present, the latest version of the IRR benchmark of China's construction projects is the 2003 version of the document, there is no updated document and the notice of the cancellation of the 2003 version of the document				
Documentation provided by the Project Owner				
Renewable Energy Law of the People's Republic of China				
GCC Emission Reduction Verifier's assessment				**Date: 09/10/2023**

1.PO has revised the PSF and found acceptable. Hence this part of CAR is closed. 2. PO is requested to provide the source/reference of input parameters as mentioned above. 3. PO is requested to provide the references of rules, laws and regulations applicable to the project activity in order to prove the project is not enforced by law. 4. The IRR sheet parameters are not linked while calculating the sensitivity analysis and IRR. PO is requested to provide the linkage for parameters in IRR. 5. Project owner shall provide the outcome of Outcome of Step 1a as per paragraph 23 of the section 4.2.1 of the TOOL01 Methodological tool: Tool for the demonstration and assessment of additionality Version 07.0.0 Further, Project owner shall provide the outcome of Outcome of Step 1a as per paragraph 23 of the section 4.2.1 and the outcome of Outcome of Step 1b as per paragraph 27 of the section 4.2.2 of the TOOL01 Methodological tool: Tool for the demonstration and assessment of additionality Version 07.0.0 6. The justification is found to be appropriate. The project requires more details on the corresponding sections. Hence CAR 07 is open.
Project Owner's response **Date:** 30/10/2023
2..We have added it in section B.5. 3.Relevant laws and regulations have been added 4..IRR sheet has been updated.The values of cells C4, C5, C6 and C7 in the sensitivity analysis table can be changed, and the IRR value will be calculated automatically after the change.The IRR sheet parameters are linked while calculating the sensitivity analysis and IRR. 5.Outcome of Sub-step 1a :Alternative (a) and Alternative (b) are possible alternatives to the project activity.
GCC Emission Reduction Verifier's assessment **Date: 31/10/2023**
2) PO have added the reference details. 3) In the revised PSF, PO has provided the references and the Project verification team has crosschecked and found to be acceptable. 4) The same is accepted. However, Some inconsistencies have been noticed with IRR and PSF and PO is requested to correct it. Further, in sensitivity analysis, the benchmark value is breached upon 10% decrease in project cost and 10% increase in tariff. Hence, PO is requested to provide actual cost details for substantiating the same. Further, PO is requested to provide the break up cost details in PSF. PO has taken Nall as 0 in common practice analysis. But there are similar projects which registered in CDM, VCS, GS in the applicable time period and PO has not considered the same while demonstrating Common practice analysis. PO is requested to correct the same. Hence, CAR 07 is open.
Project Owner's response **Date:** 07/11/2023
We have made some changes in section B.5
Documentation provided by the Project Owner
Revised PSF
GCC Emission Reduction Verifier's assessment **Date: 08/11/2023**
The project verification team has checked the Additionality section in PSF and PO has added common practice by considering the registered projects. Hence, CAR 07 is closed.

CAR ID	08	**Section no.**	D.3.6	**Date:** 28/07/2023
Description of CAR				
Background: The requirements of para 41, 42 and 43 of GCC PSF filling guidelines.				

1) PO is requested to provide a transparent ex-ante calculation of baseline emissions, project emissions (or, where applicable, direct calculation of emission reductions) and leakage emissions expected during the crediting period of the Project Activity, applying all relevant equations provided in the applied methodology(ies) and, where applicable, the applied standardized baseline. Further, PO is requested to document how each equation is applied, in a manner that enables the reader to reproduce the calculation in the section B.6.3 2) The parameters such as EFgrid,BM,y and EFgrid,OM,y are not provided in the section B6.2 of the PSF. Project owner is requested to comply with the paragraph 38 of the section B.6.2 of the PSF filling guidelines. 3)The description provided for the parameter EFgrid,CM,y is incomplete. Project owner is requested to provide complete description of the same as per tool 07 Tool to calculate the emission factor for an electricity system, Version 07.0
Project Owner's response **Date:** 14/08/2023
1. The calculation formula can be seen in the ER calculation table, and the results of B.6.3 can be repeated. 2. The "$EF_{grid,BM,y}$" and "$EF_{grid,OM,y}$" parameters are provided in Section B6.2 of PSF 3. Complete description has been provided in the section B6.2 of PSF.
Documentation provided by the Project Owner
GCC Emission Reduction Verifier's assessment **Date: 12/09/2023**
1.PO is requested to comply with paragraph 41,42, and 43 of the GCC PSF filling guidelines as requested above. 2.Project owner has revised the PSF and are found acceptable. Hence this part of CAR is closed. 3.PO has revised the PSF and found acceptable. Hence this part of CAR is closed. The project requires more details in the corresponding section. Hence CAR 08 is open.
Project Owner's response **Date:** 30/10/2023
1.We have made some changes in section B.6.3
Documentation provided by the Project Owner
Revised PSF
GCC Emission Reduction Verifier's assessment 31/10/2023
For emission factor calculation, PO has used 2019 Baseline Emission Factors for Regional Power Grids in China, published by China DNA. However, the start date of the GSC period is 22/12/2022. PO is requested to justify the appropriateness of using the value of 2019. Hence, CAR 08 is open.
Project Owner's response **Date: 7/**11/2023
2019 Baseline Emission Factors for Regional Power Grids in China is the latest version.
Documentation provided by the Project Owner
GCC Emission Reduction Verifier's assessment Date: 08/11/2023
The justification is found to be acceptable. Hence, CAR 08 is closed.

CAR ID	09	**Section no.**	D.5	**Date:** 28/07/2023
Description of CAR				
In section D.2 of PSF, PO has mentioned the EIS report details and Approval of EIA. Hence, PO is requested to provide the mentioned documents.				
Project Owner's response				**Date:** 14/08/2023
EIA and Approval of EIA are provided in folder 09 EIA & Approval of EIA.				
Documentation provided by the Project Owner				

EIA,Approval of EIA	
GCC Emission Reduction Verifier's assessment	**Date: 12/09/2023**
The provided document folder is unable to access. PO is requested to provide accessible document for the mentioned documents. The project requires supportive documents for the mentioned details. Hence CAR 09 is open.	
Project Owner's response	**Date:** 30/10/2023
EIA and Approval of EIA have been provided.	
Documentation provided by the Project Owner	
EIA,Approval of EIA	
GCC Emission Reduction Verifier's assessment	**Date: 31/10/2023**
The project verification team has checked the mentioned documents and hence CAR 09 is closed.	

CAR ID	10	**Section no.**	D.8	**Date:** 28/07/2023
Description of CAR				
PO is requested to update the template of the LOA available on the GCC site. The project owners' details mentioned in the LOA is not provided in the Appendix 1 of the PSF.PO is requested to correct the same or clarify. In PSF, section A.1, the project owner name mentioned is not inline with that of LOA.				
Project Owner's response				**Date:** 14/08/2023
Modified LOA to the latest template (folder 02 Updated PSF,IRR,LOA). The Appendix 1 of the PSF has been updated. In PSF, section A.1, the project owner name mentioned is in line with that of LOA.				
Documentation provided by the Project Owner				
GCC Emission Reduction Verifier's assessment				**Date: 12/09/2023**
PO has used the updated template. However, letterhead of the PO, Stamp of all entities, , involved in submission has not been used. All pages of LOA must be signed by all primary and secondary contact person of all entities including Legal owners, all Project owners and Focal point. Further, PDF format of the same have to be provided. PO is requested to comply to the same. The project requires revision for the mentioned documents. Hence CAR 10 is open.				
Project Owner's response				**Date:** 30/10/2023
LOA has been modified.				
Documentation provided by the Project Owner				
LOA				
GCC Emission Reduction Verifier's assessment				**Date:31/10/2023**
The revised LOA is accepted by the project verification team and hence, CAR 10 is closed.				

CAR ID	11	**Section no.**	D.10	**Date:** 28/07/2023
Description of CAR				
Background: Project Owner is requested to demonstrate environmental safeguards and social safeguards as per the latest standard (version 3). 1. As per latest standards of Environment and Social Safeguards Standard, V.3, appendix 01, PO is requested to address all the Key environmental impacts and Key social impacts as per the Indicative list of project types and corresponding Environmental and Social aspects and impacts which shall be				

assessed at a minimum., Land use change, bird hits, hazardous waste generation, noise pollution, Child labour /forced labour, Accidents / Incidents / Fatalities, Job creation, sanitation and health issues, women empowerment. PO is requested to address all the mentioned parameters in section E.1 and E.2 and to provide monitoring details of the applicable parameters in section B.7 of PSF. Further, PO is also requested to provide the procedure for the handling/disposal of wastes. 2. PO needs to substantiate each of the stated criteria for Environmental Safeguard, Social Safeguard with credible evidence.
Project Owner's response **Date:** 14/08/2023
1.Added in section E.2 of PSF. 2.The credible evidence has been provided in folder 14 .
Documentation provided by the Project Owner
2016-2023 Patrol log,Emission standard for industrial enterprises noise at boundary,Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste,Standard for Pollution Control on Hazardous Waste Stora.
GCC Emission Reduction Verifier's assessment **Date: 09/10/2023**
1. In the PSF, additional table has been added to address the key environment and social impacts. PO is requested to address the impacts as per the indicative list in the section of E.1 and E.2 in the provided tables only and no additional tables have to be added. Further, PO is requested to kindly refer to paragraphs 22 (b) and (d) of GCC Environment and Social Safeguards Standard version 3.0 and assess the scoring of environmental parameters in Table E.1 of the PSF and its consistency with monitoring plans for parameters given in PSF section B.7.1 . 2.In the PSF, it is mentioned as noise will be monitored once a quarter during day and night. So, PO is requested to provide the monitoring documents or any other supportive evidences of the same. Further, PO is requested to provide monitoring records pertaining to the parameter 'Conservation/enhancement of species diversity', since it is mentioned in PSF that the bird and bat hits will be monitored. Further, PO is requested to provide supportive evidence for all the parameters that is being monitored. 3. PO is requested to provide Do-No-Harm Risk Assessments for all the parameters provided in section E.1 and E.2. 4. PO is requested to comply to paragraph 13 of Environment and Social Safeguards Standard, Version 3 which is the Process to conduct Net-harm Assessment during PSF submission. 5. PO is requested to justify why the solid waste pollution from E-wastes and end of life equipments are not being considered. 6. PO is requested to implement monitoring plan for all relevant parameters used in section E.1, E.2 consistently. For some parameters monitoring details are not provided. Further, the details in E.1 and E.2 have to be consistent with the monitoring plan in section B.7. The project requires more details on the corresponding section. Hence, CAR 11 is open.
Project Owner's response **Date:** 30/10/2023
1. Additional tables has been deleted. 2.Noise monitoring report has been provided . 2016-2023 Patrol log has a record of monitoring birds. 3.We made some changed in section E.1 and E.2. 4.We have complied to paragraph 13 of Environment and Social Safeguards Standard, Version 5.The solid waste pollution has been considered,and we have made some changes in section E and section B.7.2. 6.We made some changed in section E.1 and E.2.
Documentation provided by the Project Owner
GCC Emission Reduction Verifier's assessment **Date: 02/11/2023**
1) Addditional tables have been deleted in the PSF.

2) Project verification team has crosschecked the same. 3) The changes are accepted by project verification team 4) Found to be complied 5) The changes in PSF are accepted. 6) Monitoring plan has now been provided for all the relevant parameters. Hence, CAR 11 is closed.

CAR ID	12	**Section no.**	D.3.6	**Date:** 26/09/2023
Description of CAR				
In the estimation of emission factor calculation, PO is requested to properly follow the requirements of Tool 07, Tool to calculate the emission factor for an electricity system. Some steps and equations in the same is not being used and PO is requested to comply to the same.				
Project Owner's response				**Date:** 30/10/2023
The requirements of Tool 07, Tool to calculate the emission factor for an electricity system has been followed.				
Documentation provided by the Project Owner				
Revised PSF.				
GCC Emission Reduction Verifier's assessment				**Date: 31/10/2023**
PSF has been revised and equations are properly provided in PSF. Hence, CAR 12 is closed.				

Table 3. FARs from this Project Verification

FAR ID	01	**Section no.**	D.13/D.14	**Date:** 26/07/2023
Description of FAR				
Project Owners shall demonstrate the compliance to CORSIA requirements for the credits claimed beyond 31 December 2020 with respect to double counting and HCLOA requirements and also future CORSIA requirements applicable time to time for the project activity				
Project Owner's response				**Date:11/08/2023**
1.Reply: Once the Host Country Authorization is provided later, this will be verified in first or subsequent verifications				
Documentation provided by Project Owner				
GCC Project Verifier assessment				**Date:** DD/MM/YYYY

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: ➢ during physical meeting (SCM 01, dated 29 Oct 2019, Doha Qatar); and ➢ electronic consultations EC01-Round 04 (17.08.2020 – 22.08.2020). ▪ Feedback from the Technical Advisory Board (TAB) of ICAO on GCC submissions for approval under CORSIA[9];
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

[9]See ICAO recommendation for conditional approval of GCC at https://www.icao.int/environmental-protection/CORSIA/Documents/TAB/Excerpt_TAB_Report_Jan_2020_final.pdf

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