



VERIFICATION REPORT '50 MW TSETSII WIND FARM IN MONGOLIA'



Document Prepared By:

Carbon Check India Pvt. Ltd.

Project Title	50 MW Tsetsii Wind Farm in Mongolia
Version	1.2
Report ID	CC IPL 921

Report Title	Verification report '50 MW Tsetsii Wind Farm in Mongolia'
Client	Value Network Venture Advisory Services Pte. Ltd.
Pages	22
Date of Issue	03-August-2021
Prepared By	Carbon Check India Pvt. Ltd.

Contact	Carbon Check (India) Private Limited Unit No. 1701, Logix City Centre Office Tower, Plot No. BW-58, Sector 32 Noida, Uttar Pradesh Tel: +91 120 4373114 E-mail: projects@carboncheck.co.in Website: http://www.carboncheck.co.in
Approved By	Amit Anand, Chief Executive Officer
Work Carried Out By	Champok Burgohain (Team Leader and Technical expert TA 1.2)

Summary:

Carbon Check India Pvt. Ltd. (Carbon Check), appointed by VNV Advisory Services Pte Ltd., has verified the greenhouse gas emission reductions reported for the project activity "50 MW Tsetsii Wind Farm in Mongolia" in Mongolia, VCS Registration Reference N° 1898, for the period 01/04/2020 to 31/03/2021 with regard to the relevant requirements for VCS activities.

The objective of the verification is to have an independent review ex-post determination of the monitored reductions in GHG emission reductions. Verification was conducted using Carbon Check's procedures in line with the requirements specified in the VCS Version 4.0 Requirements, VCS validation and verification manual version 3.2, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques. The verification consisted of desk review, off-site assessment and the resolution of outstanding issues and the issuance of the final verification report and certification

The verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable VCS / CDM requirements in order to be certified.

The project was validated by RINA S.p.A (Report N° 2019-IQ-27-MD of 26/10/2019) and it was registered under the VCS registration reference N° 1898.

The GHG emission reductions are calculated on the basis of the approved methodology ACM0002 version 19 and the monitoring plan included in the registered Project Design Document, version 1.1 of 28/08/2019.

During this verification, 1 clarification requests (CL) was raised related to operation, GHG emission reduction estimation, monitoring and baseline scenario of the VCS project activity in relation to all relevant VCS requirements for the project activity and the applied baseline and monitoring methodology, and these CAR and CL are successfully closed after necessary corrections/clarifications by the client. The same has been discussed in Appendix B of this verification report.

In conclusion, it is Carbon Check's opinion that the project activity "50 MW Tsetsii Wind Farm in Mongolia" in Mongolia, VCS project ID 1898, meets all relevant requirements for VCS standard and guidelines and correctly applies the baseline and monitoring methodology ACM0002 'Grid-connected electricity generation from renewable sources' version 19. The monitoring system is in place and the emission reductions are calculated without material misstatement. Hence, Carbon Check is able to certify that the emission reductions from the project during the monitoring period 01/04/2020 to 31/03/2021 amount to 146,367 tCO₂e.

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1 INTRODUCTION

1.1 Objective

Carbon Check (India) Pvt. Ltd. has been commissioned by "VNV Advisory Services Pte Ltd." to perform an independent verification of its VCS project, "50 MW Tsetsii Wind Farm in Mongolia", already registered under VCS with Project ID. 1898 for the reported GHG emission reductions for the given monitoring period 01/04/2020 up to 31/03/2021. The VCS projects must undergo independent third party verification and certification of emission reductions as the basis for issuance of Verified Carbon Units (VCUs).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The project activity has been implemented and operated as per the project description (PD) and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- Monitoring report and other supporting documents are complete;
- The data is recorded and stored as per the monitoring methodology and approved monitoring plan.
- To confirm that the monitoring system is implemented and fully functional to generate Verified Carbon Units (VCUs) without any double counting, and

To establish that the data reported are accurate, complete, consistent, transparent and free of material error or omission by checking the monitoring records and the emissions reduction calculation.

1.2 Scope and Criteria

The verification scope is:

- to verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- to evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- to verify that reported GHG emission data is sufficiently supported by evidence.

The project is assessed against the requirements of VCS version 4.0, VCS program guide version 4.0, validation and verification manual version 3.2 and related rules and guidance. Carbon Check has, based on the recommendations in the latest version of CDM Validation and Verification Standard, VCS validation and verification manual and employed a rule-based approach (as criteria) in the verification, focusing on the identification of significant reporting rules and the reliability of project monitoring.

Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring.

1.3 Level of Assurance

All the revisions of the verification report before being submitted to the client were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent Carbon Check instructions, *with reasonable level of assurance*.

The technical review was performed by a technical reviewer(s) qualified in accordance with Carbon Check's qualification scheme for VCS and CDM validation and verification.

The verification team and the technical reviewers consist of the following personnel:

Role	Last Name	First Name	Country
Team Leader, verifier & Technical Expert (TA 1.2)	Buragohain	Champok	India
Technical reviewer	Anand	Amit	India

1.4 Summary Description of the Project

The project activity involves 50 MW wind power plant for electricity generation and export to grid. The project owner is Clean Energy Asia LLC (CEA). The project started construction on 14/09/2016 and starts commercial operation on 27/11/2017. The generated electricity is exported to National Power Transmission Grid (NTPG) Limited. The project qualifies as a "Project" as per the VCS Standard.

The project involves the installation of 25 sets of 2 MW wind turbines. Estimated annual power generation is 201,800 MWh. The estimated annual operation hours are 8760 hrs and the estimated plant load factor is 46.073%.

The proposed project is located Tsogttsetsii Soum, South Gobi, Mongolia. The coordinates of the proposed project location are 43°33'6.904'' to 43°33'58.186'' North latitude and 105°34'50.16'' to 105°38'28.0176'' East longitude. The site is 1,587-1,597m above sea level.

The project's initial crediting period is from 27/11/2017 to 26/11/2027 and emission reductions upto 31/03/2020 has been already verified.

The project is going for the 3rd verification under the first crediting period. The emission reductions are calculated conservatively as per the applied methodology.

The main information of the project activity is summarized in the table below:

Project Participant(s)	Clean Energy Asia LLC Value Network Venture Advisory Services Pte Ltd.		
Project Title	50 MW Tsetsii Wind Farm in Mongolia		
Location of the project	The proposed project is located Tsogttsetsii Soum, South Gobi, Mongolia. The coordinates of the proposed project location are 43°33'6.904'' to 43°33'58.186'' North latitude and 105°34'50.16'' to 105°38'28.0176'' East longitude. The site is 1,587-1,597m above sea level		
Methodology(ies)	ACM0002 version 19		
Sectoral Scope(s)	1	Carbon Check's Technical Area(s)	1.2
Registered PDD	Version 1.1 of 28/08/2019		
Starting date of the crediting period	27/11/2017		
Project's crediting period	27/11/2017 – 26/11/2027 (First crediting period)		
Project documentation link	https://registry.verra.org/app/projectDetail/VCS/1898		

2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification was conducted using Carbon Check procedures in line with the requirements specified in the VCS Requirements, i.e. *VCS Program Guide, VCS Version 4 and VCS Standard, VCS Version 4.0*. The GHG emission reductions are on the basis of the approved *Baseline and monitoring methodology ACM0002 version 19*.

The verification consisted of the following phases

- Document review;
- Off-site assessment including Interviews;

Resolution of any Material Discrepancy and the issuance of the final verification report and certification.

The following sections outline each step in more detail.

2.2 Document Review

The monitoring report (MR) version 1.1 of 29/04/2021 and version 1.2 of 12/05/2021 /01/, the emission reduction calculations spreadsheet (ER sheet_MP03_50MW wind project Mongolia) version 01 of 29/04/2021 and version 1.1 of 12/05/2021, were assessed as part of the verification. In addition, the registered Project Design Documents (VCS-PDs) /02/ in particular the baseline estimations and the monitoring plan for the project were reviewed.

The following table lists the documentation that was reviewed during the verification:

/01/	VNV Advisory Services: VCS monitoring report for the project activity "50 MW Tsetsii Wind Farm in Mongolia", version 1.1 of 29/04/2021 and version 1.2 of 12/05/2021
/02/	VNV Advisory Services: Registered VCS project description for project activity "50 MW Tsetsii Wind Farm in Mongolia" in Mongolia, version 1.1 of 28/08/2019
/03/	VNV Advisory Services: Emission Reduction spreadsheet titled "ER sheet_MP03_50MW wind project Mongolia" version 01 of 29/04/2021 and version 1.1 of 12/05/2021
/04/	VCS: VCS Program Guide, version 4.0, of 19/09/2019
/05/	VCS: VCS Standard, version 4.0 of 19/09/2019

/06/	CDM Executive Board: ACM0002 'Grid-connected electricity generation from renewable sources' version 19
/07/	VCS: 50 MW Tsetsii Wind Farm in Mongolia (ID: 1898) https://registry.verra.org/app/projectDetail/VCS/1898
/08/	RINA: Joint Validation and verification report (validation report No: 2019-IQ-27-MD of 26/10/2019) for the project activity "50 MW Tsetsii Wind Farm in Mongolia"
/09/	VCS: Monitoring report form (MONITORING REPORT: VCS Version 4.0) , dated 19/09/2019
/10/	UNFCCC: CDM Executive Board agrees to relax mandatory site visits by DOEs until 30 June 2021 because of COVID-19; Website 'https://cdm.unfccc.int/newsroom/latestnews/releases/2020/01041_index.html'
/11/	VERRA guidance: https://verra.org/covid-19-travel-guidance/
/12/	UNFCCC: Grid emission factor for Mongolia's national electricity grid (https://cdm.unfccc.int/methodologies/standard_base/2015/sb99.html)
/13/	Carbon Check: Verification report (CC IPL 830 of 03/08/2020) for the project activity "50 MW Tsetsii Wind Farm in Mongolia" covering monitoring period from 01/04/2019 to 31/03/2020
/14/	NTPG: Monthly gross generation and import grid grid statement from the project 50 MW Tsetsii Wind Farm from April 2020 to March 2021
/15/	Mongolian Agency for Standardization and Metrology: Calibration certificates of energy meters with serial number 1311267, 1311265, 1311263 and 1311262 calibrated on 27/11/2017
/16/	Mott MacDonald: Final due diligence report on 'Tsetsii wind farm' dated September 2016
/17/	CEA: Complaint register book

2.3 Interviews

The key personnel interviewed and the main topics of the interviews are summarized in the table below:

	Date	Name and Role	Organization	Topic
/a/	12/05/2021	Nayan Jyoti Deka (Consultant)	VNV Advisory Services	Monitoring report, emission reduction calculations, records of monitoring parameters, VCS rules, application of methodology etc.

/b/	12/05/2021	Turbold Enkhtuvshin (Finance Manager)	Clean Energy Asia LLC	Technical aspects of the project activity. Operational life, environmental aspects etc. Operational details of the project, management structure, legal compliance, health, safety and environmental aspects, data monitoring and recording procedure, safety practices, production controls, internal audits etc.
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2.4 Site Inspections

Site visit for the subject project activity was avoided due to travel restrictions imposed due to COVID-19 impact. The verification body noted VERRA guideline on travel due to COVID-19 (<https://verra.org/covid-19-travel-guidance/>) /11/ and e-mail communication between verification body and VERRA clarifies that VERRA standard do not mandate site visit to be conducted in person. VVB also noted CDM Executive Board's decision to relax mandatory site visits by DOEs until 30 June 2021 because of COVID-19 /10/. The alternative means used for the purpose of verification are demonstrated as follow.

The audit team has carried out off site interviews (over phone call and video call) to assess the information included in the project documentation and to gain additional information regarding the compliance of the project with the relevant criteria applicable for the verification. During the desk review, the relevant documents, including the registered VCS-PD and corresponding validation report, the previous periodic monitoring report and verification report, the picture of nameplate of the main equipment (WTGs), the picture of monitoring meters and other relevant background documents were provided and assessed. The audit team can confirm the project operation and monitoring are consistent with registered monitoring plan, last monitoring report and verification report.

The validation report and previous verification reports were checked, comparing the relevant evidence and off-site interview with the PP representative and operation staff through telephone and video call, Carbon Check team has confirmed that the project is implemented in line with the PDD and the monitoring system is in line with the latest approved VS-PD and latest MR. Therefore, a reasonable level of assurance was achieved without an in-person site visit.

2.5 Resolution of Findings

The objective of this phase of the verification is to resolve any outstanding issues which need to be clarified for Carbon Check's positive conclusion on the project description. To guarantee transparency a verification protocol has been customized for the project. The protocol shows in a transparent manner the requirements, means of verification and the results from verifying the identified criteria. The verification protocol consists of three tables; the different columns in these tables are described below.

A corrective action request (CAR) is raised if one of the following occurs:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impair the estimate of emission reductions;
- Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.

A clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

In summary, 1 CL was raised during this verification which was closed successful and details are given under Appendix B of this report.

2.5.1 Forward Action Requests

Based on the review of the validation report /08/ and previous verification report /13/, it is noted that no FAR raised during validation or during first verification which need to be addressed during this verification.

2.6 Eligibility for Validation Activities

The project activity is registered under VCS registration reference Number 1898 /07/, hence this section is not applicable.

3 VALIDATION FINDINGS

The project was validated by RINA S.p.A (validation report No: 2019-IQ-27-MD of 26/10/2019) and it was registered under the VCS registration reference N° 1898. The first crediting period is from 27/11/2017 – 26/11/2027. This verification assessment for the monitoring period 01/04/2020 to 31/03/2021 falls under the first crediting period.

3.1 Participation under Other GHG Programs

The project is registered only under VCS and not registered in any other GHG program.

3.2 Methodology Deviations

No methodology deviation has been applied.

3.3 Project Description Deviations

No project deviation has been applied.

3.4 Grouped Project

The project is not a grouped project. Therefore, this section is not applicable.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

Implementation of the project activity has been assessed through document review, off-site interview and video call with project proponent. The project activity involves 50 MW wind power plant for electricity generation and export to grid. It involves 25 sets of 2 MW wind turbines. The project owner is Clean Energy Asia LLC (CEA). The project started construction on 14/09/2016 and starts commercial operation on 27/11/2017. The generated electricity is exported to National Power Transmission Grid (NTPG) Limited. The proposed project is located Tsogttsetsii Soum, South Gobi, Mongolia. The coordinates of the proposed project location are 43°33'6.904'' to 43°33'58.186'' North latitude and 105°34'50.16'' to 105°38'28.0176'' East longitude. The site is 1,587-1,597m above sea level. During the monitoring period, it is noted that entire project was fully operational as verified from generation records /14/.

VVB noted from project validation details, the project was not applied in any other GHG programme except for VERRA registration. The verification team from review of publicly available sources for other GHG programmes such as Gold Standard registry, UNFCCC, American Carbon registry etc. could confirm that the project has not applied in any other GHG programme or rejected before. The project started commercial operation on 27/11/2017 and accordingly registered under VERRA by October 2019. Therefore, the project has not applied for any other GHG programme or claim other environmental credits.

Based on document review, off-site interview and video call, it is confirmed that all the emission sources within the boundary have been considered appropriately. Monitoring of all parameters during the monitoring period is followed as per registered monitoring plan.

Data parameters fixed ex-ante and available at validation are given below:

DATA/PARAMETER Unit	Source of data	Reported value for the project period	Assessment/Observation
Combined margin emission factor for grid ($EF_{grid,CM,y}$) in tCO_2e/MWh	Data based on registered PD /02/ and validation report /08/	0.871	The value is ex-ante fixed for 10 years crediting period based on default value from Standardized baseline: Grid emission factor for Mongolia's national electricity grid" /12/. Hence, correct value is considered.

Data parameters monitored:

Data/Parameter	Assessment		
Data Unit	$EG_{facility,y}$; MWh		
Description	Quantity of net electricity generation supplied by the project plant to the grid in year y		
Source of data to be used	Joint monthly electricity generation report between CEA & NTPG grid		
Value of monitored parameter for the monitoring period	168,045 MWh during the monitoring period.		
Monitoring equipment		Meter Type	Serial Number
	Main export/import meter at Tavantolgoi substation No 1	A1802RAL-P4GB-DW-4	1311267
	Main export/import meter at Tavantolgoi substation No 2	A1802RAL-P4GB-DW-4	1311265
	Backup export/import meter at Tavantolgoi substation no 1	A1805RAL-P4GB-DW-4	1311263
	Backup export/import meter at Tavantolgoi	A1805RAL-P4GB-DW-4	1311262

	substation no 2		
Accuracy of the monitoring equipment	The energy meters are of accuracy class of 0.2s which is consistent with registered VCS-PD. The accuracy of the meters are as per industry standard.		
Measuring/Reading/Recording frequency	Continuous monitoring, hourly recording and aggregated monthly basis.		
Calculation method (if applicable)	Values as recorded in monthly generation reports from energy meter on monthly basis mention gross export and gross import and difference of gross export and gross import is reported as net generation.		
Calibration			
Calibration frequency/interval Is the calibration interval in line with the monitoring plan of the PD?	The energy meters are calibrated at least once every 8 years. This is consistent with registered monitoring plan and previous verification and hence accepted.		
Does the calibration cover the monitoring period? Has the calibration frequency been respected?	The monitoring period is from 01/04/2020 to 31/03/2021. The energy meters were calibrated on 27/11/2017 (valid until 26/11/2025). Hence, the calibration of energy meters covers the monitoring period.		
Calibration certificates	All energy meters are calibrated by Mongolian Agency for Standardization and Metrology on 27/11/2017 /15/.		
Whether calibration done by an accredited person or institution?	Mongolian Agency for Standardization and Metrology is a national agency for calibrating energy meters and hence credible to calibrate.		

4.2 Safeguards

4.2.1 No Net Harm

The project involves power generation from wind energy and supply to grid. Therefore, the project results in avoidance of CO₂ emissions in grid that would otherwise would have been generated from fossil fuel fired power plants. Therefore, there is no negative environmental impact from the project activity. In addition, due to the project activity, jobs are created in local level as verified during off-site interview which has improved socio-economic impacts in the project area. Therefore, there is no net harm from the project activity.

The project has positive socio-economic benefits as detailed in the PDD from availability of electricity from non-GHG emitting source (wind), reduction of CO₂ emissions and job creation for local people. The project has also led to construction of road to access the project site and creation of permanent site which has improved livelihood of local people. Mott MacDonald conducted Environmental and Social (E&S) Due Diligence of the Project and the report provides no significant negative impact in terms of environment and socio-economics /16/.

There are negligible negative environmental impact in terms of noise from running of wind turbines which is considered negligible as habitable location stands around 400 meters away from turbines locations. Some solid waste from the project site (around 2.4 ton/year) and hazardous waste (waste oil) from maintenance of wind turbines (around 99 kg/year) do generate which are disposed as per regulations requirements. The operation and maintenance contract lies with technology supplier Vestas who maintains strong health and safety rules and socio-economic responsibility. Therefore, the project has negligible negative socio-economic impact.

4.2.2 Local Stakeholder Consultation

Local stakeholder consultation is not applicable for the project proponent during verification. PP organized stakeholder consultation during validation of the project activity which was validated by the validation agency /08/. As verified from minutes of live consultation process, stakeholders were informed about the mechanism in place to register any comment or grievance and follow it up. Accordingly, CEA maintains complaint register one at project site and one at head office to register and resolve any issue raised. Carbon Check team verified the complaint register books (soft copy) applicable for the monitoring period and noted no grievance or complaint as registered /17/. Moreover, as identified during its socio-economic due diligence the project being a wind power project located in Gobi desert has negligible negative impact to any local people. The project sells electricity to national authority and all required licenses are obtained. Hence, the ongoing communication with stakeholders are maintained during the monitoring period.

4.3 AFOLU-Specific Safeguards

The project is a non-AFOLU projects, this section is not required.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

GHG According to the applied methodology "ACM0002", "Consolidated baseline methodology for grid connected electricity generation from renewable sources", version 19 /06/, the emission reductions have been calculated based on the following formula:

$$ER_y = BE_y - PE_y - L_y$$

Where,

ER_y : Emission reductions in year y (tCO₂e/yr)

BE_y : Baseline emissions in year y (tCO₂e/yr)

PE_y : Project emissions in year y (tCO₂e/yr)

L_y : Leakage in year y (tCO₂e/yr)

The baseline emissions (BE_y) for the project activity are calculated as follows:

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

$$EG_{PJ,y} = EG_{facility,y}$$

Where,

$EG_{\text{facility},y}$: Quantity of net electricity generation supplied by the project plant/unit to the grid in year 'y'

$EF_{\text{grid,CM},y}$: Combined margin emission factor for grid connected power generation fixed ex-ante, as 0.871 tCO₂ /MWh /02/

Combined margin emission factor was fixed ex-ante at the time of validation. The value was cross checked with the registered VCS-PD and found to be consistent.

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

$$EG_{PJ,y} = EG_{\text{facility},y} = 168,045 \text{ MWh}$$

As per the methodology and the registered PDD, the project does not need consider project and leakage emissions.

Hence $ER_y = BE_y$

$$\text{i.e. } ER_y = 168,045 * 0.871 = 146,367 \text{ tCO}_2\text{e.}$$

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

During the verification, all relevant documents were checked to assess the correctness and quality of data submitted by the project participants, which are used to determine emission reductions.

All records needed for monitoring are archived in line with the requirements of the registered monitoring plan. No significant, lack of evidence and missing data were detected during verification. Hence, the verification team confirms that the monitoring system ensures required quality of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures.

Energy meters calibrated to ensure the quality of the data. Monthly generation data is recorded by national agency (NTPG) and accordingly invoices are raised by project proponent. The net export of electricity is directly taken from monthly generation records.

Carbon Check is of the opinion that this method of estimation is accurate and results in conservative estimation of emission reduction and is line with the applicable VCS requirements.

4.6 Non-Permanence Risk Analysis

There is no non-permanence risk rating determined by the project proponent.

5 VERIFICATION CONCLUSION

Carbon Check (India) Pvt. Ltd. has performed verification of the emission reductions reported for the project activity “50 MW Tsetsii Wind Farm in Mongolia” in Mongolia, VCS Registry Project ID 1898, for the period 01/04/2020 to 31/03/2021, with regard to the relevant requirements for VCS activities. The project participants of the “50 MW Tsetsii Wind Farm in Mongolia” project are responsible for:

- the preparation of greenhouses gas emissions data and the reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered project design document version 1.1 of 28/08/2019.
- the development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project.

It is the responsibility of Carbon Check to express an independent verification opinion about the project's conformity with the requirements of VCS Standard version 4 and GHG program applied, on the reported greenhouse gas emission reductions from the project.

Based on documented evidence and corroborated by an off-site assessment, Carbon Check can confirm that:

- the project has been implemented and operated as per the registered VCS-PD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Standard version 4 requirements;
- the monitoring is in place as per the applied baseline and monitoring methodology;
- the monitoring plan in the registered VCS-PD is as per the applied baseline and monitoring methodology.

It is Carbon Check's opinion that the GHG emission reduction stated in the monitoring report version 1.2 of 12/05/2021 for the "50 MW Tsetsii Wind Farm in Mongolia" in Mongolia for the period 01/04/2020 to 31/03/2021 are fairly stated. The GHG emission reductions are calculated on the basis of approved methodology ACM0002 version 19 and the monitoring plan included in the registered Project Design Document, version 1.1 of 28/08/2019.

Hence Carbon Check is able to certify that the emission reduction from the project during the monitoring period 01/04/2020 to 31/03/2021 is amount to 146,367 tCO₂:

Verification period: From 01/04/2020 to 31/03/2022

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/04/2020 to 31/12/2020	98,452	0	0	98,452
01/01/2021 to 31/03/2021	47,915	0	0	47,915
Total	146,367	0	0	146,367

APPENDIX A: ABBREVIATIONS

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CC IPL	Carbon Check India Pvt. Ltd.
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CEA	Clean Energy Asia LLC
CER(s)	Certified Emission Reduction(s)
CH ₄	Methane

CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoV	Means of Verification
MWh	Mega Watt Hour
MR	Monitoring Report
NGO	Non-governmental Organization
NTPG	National Power Transmission Grid
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCU	Verified Carbon Unit

VER	Voluntary Emission Reductions
VVB	Validation and verification body
VVS	Validation and Verification Standard
WTG	Wind Turbine Generator

APPENDIX B: CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS AND FORWARD ACTION REQUEST

Table 1. CL from this verification

CL ID	01	Section no.	4.5	Date:	09/05/2021
Description of CL					
PP is requested to submit electricity generation records and sales record to cross check net quantity of electricity export to grid in consistent with registered VCS-PD section 4.2 applicable for the monitoring period.					
Project participant response				Date:	12/05/2021
The electricity generation records are submitted now					
Documentation provided by project participant					
Electricity generation records and updated MR					
VVB assessment				Date:	15/05/2021
The monthly electricity generation records are found consistent with the details provided in MR and emission reduction worksheet. The net export values are cross checked with sales invoice raised by project proponent and hence CL is closed.					

Table2: CAR for this verification:

No CAR raised.

Table3: FAR from this verification:

No FAR raised.

APPENDIX C: CERTIFICATE OF COMPETENCE



Carbon Check (India) Private Ltd.

Champok Buragohain

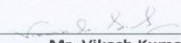
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

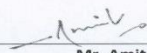
Validator	☒	Team Leader	☒	Technical reviewer	☐
Verifier	☒	Technical Expert	☒	Local Assessor ¹	☒

In the following Technical Areas:

TA 1.1	☒	TA 3.1	☒	TA 5.2	☐	TA 9.2	☐	TA 13.2	☒
TA 1.2	☒	TA 4.1	☐	TA 8.1	☐	TA 10.1	☐	TA 14.1	☐
TA 2.1	☐	TA 5.1	☐	TA 9.1	☐	TA 13.1	☒		



Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO

Date of Approval
24/12/2020

Valid Till
24/12/2021

Revision History of the Document

26/12/2014	Initial Adoption
24/12/2015	Annual Revision
20/01/2016	Interim Revision for office address change
23/12/2017	Annual Revision
24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision
01/03/2020	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision

¹ Please state the name of countries for which the candidate is qualified as local assessor.

CARBON CHECK (INDIA) PRIVATE LIMITED
CIN: U74930DL2012PTC232495

Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005
Corporate off: Unit No. 1701, Logix City Centre Office Tower, Plot No. BW-58, Sector-32 Noida, Uttar Pradesh
Tel: +91 120 4373114 | URL: www.carboncheck.co.in | e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Amit Anand

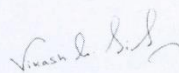
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For following functions:

Validator ☒ Team Leader ☒ Technical reviewer ☒
 Verifier ☒ Technical Expert ☒ Local Assessor¹ ☒

In the following Technical Areas:

TA 1.1 ☒ TA 3.1 ☒ TA 5.2 ☐ TA 9.2 ☐ TA 13.2 ☐
 TA 1.2 ☒ TA 4.1 ☐ TA 8.1 ☒ TA 10.1 ☐ TA 14.1 ☒
 TA 2.1 ☐ TA 5.1 ☐ TA 9.1 ☐ TA 13.1 ☒



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¹ India and South Africa

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