
VERIFICATION AND CERTIFICATION REPORT

Alize Enerji Elektrik Üretim A.Ş.

Çataltepe 16 MW Wind Farm

Project, Turkey

IN

Turkey

MONITORING PERIOD:

From 20/01/2023 to 29/02/2024 (both days included)


PROJECT NUMBER: 1051



Organizational Unit:	Re Carbon Ltd.		
Project Title:	Çataltepe 16 MW Wind Farm Project, Turkey		
Project Number:	Client:	Current MR Version:	
1051	Alize Enerji Elektrik Üretim A.Ş.	0.3	
Date of First Issue:	Date of Current Version:	Version Number:	Number of Pages:
24/04/2024	23/07/2024	04	41
Verification Number:	Registration Number:	Monitoring Period:	
1 st MP for 2 nd CP (Totally 2 nd MP)	GS574	From: 20/01/2023	To: 29/02/2024
Summary:			
Host Country: Turkey			
Project is Reviewed Against:			
<input checked="" type="checkbox"/> Kyoto Protocol <input checked="" type="checkbox"/> UNFCCC CDM rules and regulations and associated documents			
<input checked="" type="checkbox"/> Gold Standard rules and regulations <input type="checkbox"/> Other (Please Specify)			
Methodology: ACM0002: Grid connected electricity generation from renewable electricity generation Version: 21.0			
Verified Emissions Reductions: 27,088 tCO ₂ e			
Project Size: <input checked="" type="checkbox"/> Large Scale <input type="checkbox"/> Small Scale <input type="checkbox"/> Micro Scale			
Project Developers:	Alize Enerji Elektrik Üretim A.Ş.		
Verification Stages:			
<input checked="" type="checkbox"/> Desk Review <input checked="" type="checkbox"/> Site Visit <input checked="" type="checkbox"/> Follow-up Interviews			
<input checked="" type="checkbox"/> Resolution of Outstanding Issues			
Verification Findings:			
During the verification 04 Corrective Action Requests and 00 Clarification Requests were issued, all of which were closed out before the issuance of this verification report. 00 Forward Action Requests were issued during the verification, all of which shall be addressed during the next verification of the project activity.			
In summary, it is Re Carbon Ltd.'s opinion that the project activity "Çataltepe 16 MW Wind Farm Project, Turkey" in Turkey, is in compliance with the monitoring plan described in the registered PDD, version 06 and dated 23/06/2023. The GHG emission reductions are calculated correctly as per the applied methodology and the emission reductions given in the monitoring report version 0.3 dated 27/05/2024 are fairly stated.			
Verification Team Leader:	Khalid MAHMOOD	Indexing Terms:	
Verification Team Members:	İrem TAŞKIRAN (Verifier) Helin TÜZER (Verifier Trainee)	<input checked="" type="checkbox"/> No distribution without permission of the client or responsible organizational unit	
Approved By	Name:	Signature:	<input type="checkbox"/> Limited Distribution

PROJECT NUMBER: 1051



(Technical Reviewer):	Sandeep KANDA		<input type="checkbox"/> Unrestricted Distribution
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Abbreviations

CAR	: Corrective Action Request
CDM	: Clean Development Mechanism
CEF	: Carbon Emission Factor
CER	: Certified Emission Reduction(s)
CL	: Clarification request
CMD	: Certification Management Department
CO₂	: Carbon dioxide
CO₂e	: Carbon dioxide equivalent
DNA	: Designated National Authority
DOE	: Designated Operational Entity
DR	: Document Review
EF	: Emission Factor
ER	: Emission Reductions
ERPA	: Emission Reduction Purchase Agreement
FAR	: Forward Action Request
GHG	: Greenhouse gas(es)
GS	: Gold Standard
GS4GG	: Gold Standard for Global Goals
GWP	: Global Warming Potential
I	: Interview
IPCC	: Intergovernmental Panel on Climate Change
kWh	: Kilo Watt Hour
MP	: Monitoring Plan
MoV	: Means of Verification
MW	: Mega Watt
MWh	: Mega Watt Hour
NGO	: Non-governmental Organisation
ODA	: Official Development Assistance
PDD	: Project Design Document
PD	: Project Developer(s)
tCO₂e	: Tonnes of CO ₂ equivalents
UNFCCC	: United Nations Framework Convention on Climate Change

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1. EXECUTIVE SUMMARY– VERIFICATION AND CERTIFICATION OPINION

Re Carbon Ltd. performed the 2nd (1st verification of 2nd CP) periodic verification of the Çataltepe 16 MW Wind Farm Project, Turkey, a Gold Standard project with the registry reference number GS574 for the period in between 20/01/2023 and 29/02/2024. The scope of the activities cover the verification and certification of GHG emissions reductions reported in the Monitoring Report Version 0.3, dated 27/05/2024 of Çataltepe 16 MW Wind Farm Project, Turkey.

Re Carbon Ltd. hereby confirms that the project activity “Çataltepe 16 MW Wind Farm Project, Turkey” in Turkey, is implemented in accordance with the validated and registered PDD version 06, dated 23/06/2023. The monitoring system is in place and the emission reductions are calculated without material misstatements as per the applied approved methodology, which is ACM0002: Grid connected electricity generation from renewable electricity generation - Version 21.0.

Re Carbon Ltd. confirms the following based on the results of document review and on-site assessment:

The implementation of the project has resulted in the avoidance of 27,088 tCO₂e during the monitoring period in between 20/01/2023 and 29/02/2024.

2. INTRODUCTION

2.1. Objective

Through a contract, dated 26/04/2022, Re Carbon Ltd. was appointed by Alize Enerji Elektrik Üretim A.Ş. to perform the 2nd (1st verification of 2nd CP) periodic verification of the Cataltepe 16MW Wind Farm Project, Turkey. The objective of this verification activity was to assess, with objective evidence:

- if the monitoring report, version 0.3 dated 27/05/2024 conforms with the requirements of the monitoring plan of the registered PDD and the approved methodology
- if the project activity conforms with the monitoring report and the registered PDD, and
- if the data reported in the monitoring report are complete and transparent.

2.2. Scope

The scope of the verification is the independent and objective review of the monitored GHG reductions. The verification activity is based on the validated and registered PDD version 06, dated 23/06/2023.

The project activity and the monitoring report are assessed against the requirements of Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed on in the Marrakech Accords under decision 3/CMP.1, the annexes to that decision, “ACM0002: Grid connected electricity generation from renewable sources, version 21.0”, subsequent decisions and guidance made by COP/MOP and the CDM Executive Board as well as other related rules, according to the guidance given in the CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, Gold Standard for the Global Goals (GS4GG) version 1.2 and other relevant GS4GG requirements.

The only purpose of the verification and certification is its usage during the issuance process as part of the GS project cycle. Therefore, Re Carbon Ltd. cannot be held liable by any party for decisions made or not made based on the verification and certification opinion, which will go beyond that purpose.

2.3. Description of the Project Activity

The Çataltepe 16 MW Wind Farm Project, Turkey (Çataltepe WPP) is operated by Alize Enerji Elektrik Üretim A.Ş. The project activity is located in Havran district of Balıkesir province of Turkey. As per the generation license dated 18/04/2007, the project activity includes 13 wind turbines currently and total installed capacity is 27.75 MW. However, the project owner may use only 16 MWe capacity's electricity generation (i.e. 8 wind turbines with all of them (E82) of 2,000 kW capacity) for the registered project activity. The other 5 unregistered turbines have 11.75 MW (all of them (E92) of 2,350 kWm/2,300 kWe capacity) This information has been confirmed via the registered PDD version 06 dated 23/06/2023. Therefore, the total installed capacity of the project activity is 16 MWm/16 MWe with considering (8 x 2.0 MW). The electricity generated at project is fed to the national grid via Edremit II transformer station on 34.5 kV medium-voltage Level Transformer Center.

The purpose of the proposed project is to generate electricity by utilizing the renewable energy. Total amount of electricity generation is 41,753.626 MWh and emission reduction achieved in this monitoring period is 27,088 tons of CO₂e.

The commissioning date of the first 8 turbines is 19/04/2011.

The commissioning date of the turbines T10-T13 is 08/02/2019

The commissioning date of the turbines T9-T11-T12 is 28/02/2019

There are 2 electricity meters and these meters measure the generated electricity of 27.75 MWm. Therefore, a ratio has been introduced to calculate the generated electricity of 16 MWe. During the monitoring of net energy generation (SDG7) value calculation, PP has simply subtracted the SCADA values of unregistered 5 turbines' electricity generation from all 13 turbines gross generation data of EPIAS. The formula of the electricity generation is as follows:

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

Where:

$EG_{PJ,y}$ = Design Certified Quantity of net electricity generation (27.75 MW) supplied to the grid in year y by the project plant/unit that has been added under the project activity (MWh/yr)

$EG_{facility,y}$ = Quantity of total net electricity generation supplied to the grid in year y by the facility (capacity addition and the existing capacity) and measured by the TEİAŞ meters (MWh/yr)

$EG_{RATIO,y}$ = Ratio between electricity generation of the plans/units of the Project Activity (16 MW) and the total gross generation of the 27.75 MW facility in year y (%) calculated as per SCADA.

The second crediting period start date of the project as verified from the information provided on GS Registry is between 19/04/2018-18/04/2025. This is the 1st monitoring period of the second crediting period which the monitoring is in between 20/01/2023 and 29/02/2024 (both days included).

For E82 wind turbines:

Parameter	Value
Manufacturer	Enercon
Type of Turbines Used	E82, 2,000 kW each
Number of turbines	8xE82
Rotor diameter	82 m for type E82
Turbine concept	Gearless, variable pitch control
Rotational speed	6-19.5 rpm for type E82
Cut out wind speed	28-34 m/s
Remote monitoring	Enercon SCADA

For E92 (unregistered) wind turbines:

Parameter	Value
Manufacturer	Enercon
Type of Turbines Used	E92, 2,350 kW each
Number of turbines	5xE92
Rotor diameter	92 m for type E92
Turbine concept	Gearless, variable pitch control
Rotational speed	6-19.5 rpm for type E92
Cut out wind speed	25.0 m/s
Remote monitoring	Enercon SCADA

The project owner and the VVB made on-site visit on 26/03/2024. The project owner can be issue only the electricity generation and carbon credit between 20/01/2023 and 18/04/2025 for the second crediting period.

VVB has checked and confirmed that there is no legal contest or dispute has arisen during monitoring period. Signed declaration has been provided to VVB and VVB has been confirmed this information via public search.

2.4. Parties Involved

Alize Enerji Elektrik Üretim A.Ş. is the project owner and host country is Turkey.

2.5. Verification Period Covered

This is the 1st verification process of 2nd CP (totally 2nd verification), verification period is from 20/01/2023 to 29/02/2024 (both days included).

3. METHODOLOGY

The verification of this GS project activity includes the following steps:

- Assessment of the conformity of the actual project activity and its operation with the registered PDD, dated 23/06/2023 version 06.
- A physical site visit, executed on 26/03/2024 in order to assess that all physical features of the project activity proposed in the registered PDD are in place and that the project developer has operated the project activity in line with the registered PDD.
- Assessment of the compliance of the monitoring plan with the monitoring methodology ACM0002: Grid connected electricity generation from renewable electricity generation
- Assessment of the compliance of the monitoring with the monitoring plan
- Assessment of data and calculation of greenhouse gas emission reductions
- Issuance of the verification report
- Independent technical review
- Approval of the verification report and request for issuance

The Verification Protocol is used for the assessment of each requirement during the execution of verification activities and is given in Annex-1 of this verification report.

The Verification Protocol consists of one table:

- Table 1 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in the Verification Protocol is explained in Table 3-1 below:

Table 3-1: Explanation of Table-1 in the Verification Protocol

Question	Reference	MoV*	Findings, comments, references and document sources	Draft & Final Conclusion
The requirements related with the GS monitoring report, GS4GG and CDM verification Standards and/ or Procedures	Gives reference to the legislation or documents where the relevant requirement is found	Explains how conformance with question is investigated. Examples of means of verification are Document Review (DR), Interview (I) and Not Applicable (NA)	Is used to elaborate and discuss the question and/or conformance to the question by giving related references and document sources based on which the finding is issued or evidence is checked	Either acceptable based on the evidence provided (OK), non-compliance with the requirement (CAR), further clarification (CL) due to insufficient, unclear or not transparent information, forward action request (FAR) that needs to be solved during the next periodic verification

The usage description of Table-2 in the Verification Protocol is explained in Table 3-2 below:

Table 3-2: Explanation of Table-2 in the Verification Protocol

Draft Report Clarifications, Forward Action and Corrective Action Requests by Verification Team	Ref. to Questions in Table-1 and Table-2	Summary of Project Developers' Response	Verification Team Conclusion
The all CL, FAR and CARs determined during the draft verification report should be listed here	Gives reference to the checklist questions in Table-1 of Verification Protocol	Is used to summarize the responses by project developers regarding the non-conformities	Is used to summarize the responses by verification and their conclusions

The Verification Protocol is filled out by the verification team in line with the descriptions above. All CARs, CLs and FARs are listed in a transparent and clear manner.

3.1. Verification Team and ITR Selection

The appointment process of the verification team takes into account the technical area(s), sectoral scope(s), and relevant host country experience required by the team members for the verification of the emission reductions achieved by the project activity in the related monitoring period for this verification. The relevant GS verification and previous ITR experiences are also assessed during the selection of the team members as well as the Independent Technical Reviewer (ITR). The verification team and ITR was assigned to this verification activity on

09/04/2022 taking all the above factors into consideration and following the contract review procedure. On 25/11/2023 team change has been done because previous Team Leader Ms. Öykü Yakupoğlu was no longer an employee in Re Carbon Ltd. New team leader of the project activity is Mr. Khalid Mahmood.

The verification team and ITR details are given in Table 3-3 below:

Table 3-3: Verification team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise	Involvement*
Ms. İrem TAŞKIRAN	Verifier	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A, DR, R, SV
Ms. Helin TÜZER	Verifier Trainee	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A, R, DR, SV
Mr. Khalid MAHMOOD	Current Team Leader	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A, DR, R
Mr. Sandeep KANDA	ITR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ITR

* Explanations for the abbreviations used for involvement types are as follows:

- A : Administrative
- DR : Desk Review
- SV : Site Visit
- RA : Remote Assessment¹
- R : Reporting
- ITR : Independent Technical Review

3.2. Desk Review of Documents

The basis for the verification activity is the monitoring report version 0.1, dated 15/03/2024, which was submitted to the verification team on 25/03/2024. Physical site visit was conducted on 26/03/2024. In the verification process, Ms. Öykü Yakupoğlu was the previous team leader, Mr. Khalid Mahmood is the current team leader, Ms. İrem Taşkiran is the verifier, Ms. Helin TÜZER is the trainee verifier and Mr. Sandeep Kanda is the ITR. This monitoring report was revised several times due to issued CARs and CLs, resulting in version 0.3, dated 27/05/2024 as the final version. The monitoring report and the monitoring activities were assessed against the registered PDD, version 06, dated 23/06/2023, the “ACM0002: Grid connected electricity generation from renewable electricity generation - Version 21.0”, the relevant CDM rules and regulations, CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, GS4GG version 1.2, and the following:

- final validation report of “2nd crediting period version 06 has been prepared by Re Carbon Ltd. On 30/06/2023” team of the crediting period renewal process and verification process are different. Team of the crediting period renewal process was, Mrs. Fikriye Seda ATABEK as the Team Leader, Ms. Öykü YAKUPOĞLU as the Validator and Mr. Anıl SÖYLER as the ITR.

The following actions were involved in the desk review:

- A review of the data and information presented to verify their completeness
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions

A list of all the documents that were reviewed can be found in Section 6 of this verification report.

3.3. On-Site Visits

As a part of the verification activities a physical site visit was performed at the project activity's site, details of which can be seen in Table 3-4 below:

Table 3-4: Site visit details

Date	26/03/2024	
Location	Havran, Balıkesir	
Participant	Company Name	Role in the Organization / Role in the Site Visit
Çağla BACI ERİŞ	Rüzgar Danışmanlık	Consultant
Sevim COŞGUN	Kocadağ Village	Female Stakeholder
Dudu ÇELEBİ	Kocadağ Village	Female Stakeholder
Ümmü BALABAN	Kocadağ Village	Female Stakeholder
Nurten ÇAKIRCA	Kocadağ Village	Female Stakeholder
Nefise BALABAN	Kocadağ Village	Female Stakeholder
Dudu COŞGUN	Kocadağ Village	Female Stakeholder
Şükran COŞGUN	Kocadağ Village	Female Stakeholder
Mustafa ŞENER	Karalar Village	Male Stakeholder
Fahri COŞGUN	Alize Enerji / Kocadağ Village	Security
Muhterem BALABAN	Alize Enerji / Karalar Village	Security
Ömer ŞENER	Alize Enerji / Karalar Village	Security
Tuncay COŞGUN	Alize Enerji / Kocadağ Village	Security
Ahmt KÜSUR	Kocadağ Village	Headman
Helin TÜZER	Re Carbon Ltd.	Trainee Verifier
İrem TAŞKIRAN	Re Carbon Ltd.	Verifier
Points Verified	Source of Information	
Implementation and operation of the proposed CDM project activity as per the registered PDD	Document review, on-site visit and interviews with the local stakeholders from Kocadağ Village and Karalar Village	
Review of information flows for generating, aggregating and reporting the monitoring parameters	Document review, on-site visit and interviews with the local stakeholders from Kocadağ Village and Karalar Village	
Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD	Interviews with the local stakeholders from Kocadağ Village and Karalar Village	

Cross-check between information provided in the monitoring report and data from other sources such as plant log books, inventories, purchase records or similar data sources	Document review and on-site visit
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD and the selected methodology	Document review, on-site visit and interviews with the local stakeholders from Kocadağ Village and Karalar Village
Review of calculations and assumptions made in determining the GHG data and emission reductions	Document review
Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Document review and interviews with the local stakeholders from Kocadağ Village and Karalar Village

During the site visit, the headman of the Kocadağ village was interviewed, and it was stated that there were no complaints from the local stakeholders. Logbook has been seen during the on-site visit. Logbook was in Kocadağ village headman’s office and it has been seen that there were no complaints in logbook and VVB has not received any negative comments from stakeholders.

3.4. Reporting of Findings via the Verification Protocol

During the verification period, a Verification Protocol (attached as Annex 1 to this verification report) was used to submit the findings to the project developers.

As part of this verification report, please see “**Attachment to Verification Report / GS4GG Audit Techniques Template for Verification**” for details of Audit Techniques used and the related risk assessment.

In line with the CDM Validation and Verification Standard the team reports the non-conformities in form of Corrective Action Requests (CARs), Clarification Requests (CLs) and Forward Action Requests (FARs). When and for which type of non-conformities CARs, CLs and FARs are issued is explained below:

- The Verification team raises a **CAR** if one of the following occurs:
 - A non-conformity with the monitoring plan or methodology is found in the 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 developers.
- The Verification team raises a **CL** if information is insufficient, not transparent, or not clear enough to determine whether the applicable CDM and/or GS4GG requirements have been met.
- The Verification team raises a **FAR** during the verification for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles, a total of 04 CARs, 0 CLs and 0 FARs were issued, all of which are listed in the Verification Protocol.

3.5. Follow-Up Interviews

During the verification period, follow-up interviews were performed by the verification team in order to further analyze the correctness and accurateness of the information provided. A list of individuals interviewed is given in Section 5 of this Verification Report.

3.6. Resolution of Outstanding Issues

During the verification activity, CARs and CLs were issued to clarify the issues that are not sufficiently transparent to reach a positive verification opinion and to approve the achieved GHG emission reductions.

If there are any findings issued as Forward Action Requests (FARs) previously, as indicated in earlier validation and/or verification reports, these are also addressed in this phase.

Outstanding issues indicated in the FARs from earlier reports, and CLs and CARs from this verification activity, were resolved and/ or clarified during the written and oral communications between the Project Developer and Re Carbon Ltd.'s Verification Team Members. These communications are backed up with objective evidence that were sent to the verification team as a proof of compliance. Concerns issued in the desk review, the on-site audit assessments, the follow up interviews and the responses provided for the issued concerns are documented in Annex 1 (Verification Protocol) in order to guarantee the transparency of the verification process.

The verification timeframe is given in detail in Table 3-5 below:

Table 3-5: Verification Timeframe

Activity	Timeline		Total Days
	From	To	
Desk Review	25.03.2024	24.04.2024	31
Review of the MR version 01	25.03.2024	16.04.2024	23
Site Visit	26.03.2024	26.03.2024	1
Issuance of the Verification Protocol version 01	1.04.2024	16.04.2024	16
Review of PDs Initial Set of Responses	16.04.2024	17.04.2024	2
Issuance of the Verification Protocol version 02	22.04.2024	22.04.2024	1
Closing of all the CARs and CLs	22.04.2024	22.04.2024	1
Issuance of the Verification Report version 01	24.04.2024	24.04.2024	1
ITR Process	24.04.2024	25.04.2024	2
Issuance of the Verification Report version 02	25.04.2024	25.04.2024	1
Submission for Final Approval	25.04.2024	29.04.2024	5
Submission to the PD	29.04.2024	29.04.2024	1
Revisions based on GS review comments round 1	28.05.2024	3.07.2024	37
Revisions based on GS review comments round 2	23.07.2024	23.07.2024	1

Information or clarifications provided as a response to a CAR, CL or FAR could also lead to a new request. This can also be seen transparently in the Verification Protocol provided in Annex 1 of this Verification Report.

3.7. Internal Quality Control

As a final step of verification, the final documentation including the verification report and its annexes must undergo an internal quality control in Re Carbon Ltd. This quality control is also referred to as the “Independent Technical Review” process.

The Independent Technical Review is performed by another Team Leader who was not involved in the verification activity of this project activity. Following finalization of the Verification Report by the Team Leader, the draft report is sent to the Independent Technical Reviewer. At this stage not only the report but all the supporting documents, such as emission factor calculations, additionality justifications, relevant excel sheets etc. are being reviewed.

Further CLs and CARs can be issued by the Independent Technical Reviewer during this review to cover all aspects that may need further clarification.

After all the CLs and CARs are closed, the verification report is reviewed and approved by the Team Leader, ITR and the Certification Manager. The request of issuance is submitted to the Project Developer in line with the positive verification opinion and along with all relevant documents.

4. VERIFICATION FINDINGS

4.1. Remaining Issues from Previous Validation or Verifications

There is a FAR issued during the design renewal process from GS design renewal review:

FAR#1: VVB performing periodic verification for the MP within CP2 shall check that the carbon crediting within CP2 are issues only for the period 03/05/2019 to 18/04/2025.

Answer to FAR#1: physical site visit has been conducted on 26/03/2024. PP can claim credits between 20/01/2023 to 29/02/2024 for the first monitoring period of second crediting period.

There is no FAR raised in the previous verification from CP1.

4.2. Compliance of the Project Implementation with the Registered PDD

The project is fully implemented according to the description presented in the registered PDD version 06 dated 23/06/2023 for second crediting period and 13 wind turbines (including 8 registered wind turbines) were operational during the on-site visit as in the registered project. The verification team confirms through the site visit inspection and provided evidences that all physical features of the project activity including data collecting systems and storage have been implemented in accordance with the registered PDD. Electricity meters were also seen during the on-site visit. The project activity is completely operational and the same has been confirmed through on-site visit. The project activity is completely operational and the same has been confirmed through on-site visit. The project start date is 19/04/2011 which was confirmed investment decision is met by ordering wind turbines on this date according to registered PDD for CP1.

- **The commissioning date of T1, T2, T3, T4, T5, T6, T7, T8.** 19/04/2011.
- **The commissioning date of T10, T13:** 08.02.2019
- **The commissioning date of T9, T11, T12:** 28.02.2019

This date is also confirmed by checking the provisional acceptance protocols of the wind turbines.

According to the registered PDD, the estimated annual emission reduction is 26,693 tCO₂e and corresponding total estimated amount for the monitoring period is 26,691 tCO₂e. The actual values achieved for the current monitoring period is 27,088 tCO₂e. The actual amount of emission reduction for the current monitoring period is 8.77% lower than estimated emission reduction amount. Considering the yearly fluctuations in wind, high uncertainty for wind speed estimation and possible increase and decrease in the electricity generation during the long-life time of the project, the average decrease throughout the monitoring period as 8.77% is deemed acceptable.

According to the registered PDD, the estimated annual electricity generation is 41,143.028 MWh and corresponding total estimated amount for the monitoring period is 45,764.574 MWh. The actual values achieved for the current monitoring period is 41,753.626 MWh. The actual amount

of electricity generation for the current monitoring period is 8.77% lower than estimated emission reduction amount.

The difference in the values does not lead to a substantial increment of the ER in this period in relation to the estimates in the registered PDD. The technical specifications of the wind turbines are confirmed by looking at the provisional acceptance protocols of turbines and Enercon website.

4.3. Compliance of the Monitoring Plan with the Monitoring Methodology

The monitoring plan is in accordance with the approved methodology, ACM0002 version 21.0, applied by the project activity.

In line with the methodology, the only information to be monitored is the amount of net electricity delivered to the grid by the project activity.

4.4. Compliance of the Monitoring with the Registered Monitoring Plan

The net electricity is measured continuously by one main electricity meter at the grid interface and recorded monthly. There is also one back-up electricity meter. The meters used are in line with the regulatory requirements for electricity meters. On 06/10/2017, main meter and on 10/11/2017 back-up meter has been changed.

The technical details of the current electricity meters are as follows:

	Main Meter	Back-up Meter
Manufacturer	Landis	EMH
Model	Gyr	LZQJ-XC-P2FB
Serial Number	51052836	6839363
Date of Installation	06/10/2017	10/11/2017
Date of Initial Calibration	15/01/2015	07/06/2017
Date of Meter Test	15/01/2015	07/06/2017
Accuracy class	0.2s active 0.5s re-active	0.2s active 0.5s re-active

The installation documents of the electricity meters dated 06/10/2017 for main meter and 10/11/2017 for back-up meter (i.e. the meter change date) and initial calibrations of the documents of the electricity meters dated 15/01/2015 for main meter and 07/06/2017 for back-up meter were provided by the project owner.

The electricity meters have been controlled and maintained by the grid owner. The quantity of net electricity delivered to the grid has been taken from EPIAŞ records. The net electricity generation has been measured from the EPIAŞ records (and cross-checked with OSOS records (monthly meter reading records)) and measuring the ratio between registered and unregistered turbines. Also, for January 2023, to calculate the electricity generation values, apportioning has been done based on number of days.

Data has been stored electronically, during the crediting period and at least two years after the last issuance of credits for the wind farm project activity in the concerning crediting period. The project participants also archived a hardcopy of meter reading protocols, scanned them, and stored them. The invoices are kept by the Project owner as hardcopies. Furthermore, the EPIAS system stores the reports electronically, which is accessible to the Project owner whenever necessary.

Moreover, the details of the ex-ante parameter were confirmed with checking the registered PDD (version 06 dated 23/06/2023) of the project activity.

4.5. Completeness of Monitoring

All parameters required by the methodology and Gold Standard are monitored. In line with the methodology, the only information to be monitored is the amount of net electricity exported to the grid by the project activity. The sustainable development indicators indicated in the GS registered PDD version 06 dated 23/06/2023 relevant for the 2nd periodic verification (first verification of the second crediting period) are:

- EGpj,grid,y (SDG 7, Indicator 7.2.1)
- Number of Employment Generation (SDG 8, Indicator 8.5.2)
- Health and Safety Training Records (SDG 8, Indicator 8.8.2)
- ERy (SDG 13, Indicator 13.3.2)
- Water Quality and Quantity (Disposal of the Waste Water) (Principle 4.3.4)
- Birds Observation (Principle 9.10)

As there are no missing parameters, monitoring is complete.

4.6. GS4GG Safeguarding Principles and Requirements

Safeguarding Principles and Requirements are in line with the registered PDD and the final version of the Gold Standard for the Global Goals. For the verification of Safeguarding Principles and Requirements in the current monitoring period, document review, on-site visit observations and on-site interviews with local stakeholders were used.

Compliance check of the Data / Parameter(s) indicated in the Safeguarding Principles Monitoring Plan of the registered PDD has been carried out as described in Table 4-1 below:

Table 4-1: Safeguarding Principles monitoring parameters

No.	Relevant SDG Indicator/ Safeguarding Principle	Chosen Data / Parameter	Way of Monitoring (When)	Compliance Check
1.	$EG_{pj,grid,y}$ (SDG 7 & Target: SDG 7.2)	Quantity of electricity generated and supplied by the project power plant to the grid in year y	Checking EPIAŞ records	The net electricity generation has been checked from the EPIAŞ records (and cross-checked with OSOS records (monthly electricity meter readings)) and checking the ratio of the electricity production between registered and unregistered turbines from SCADA system. Also, for January 2023, to calculate electricity generation values, apportioning has been done based on number of days. The details of the electricity generation are provided in Section 4.8 of this verification report.
2.	Number of Employment Generation (SDG 8 & Target: SDG 8.5)	Number of people employed directly due to the project activity	Checking social security records of the employees	Social security records of 7 employees were provided to the VVB.
3.	Health and Safety Training Records (SDG 8 & Target: SDG 8.8)	Number of certificates issued/trainings provided	Checking the training records	The training records of the employees dated 04-05/07/2023 and 17/08/2023 were provided to the VVB. Also, it was learned from the employees during the on-site visit that there have been no occupational injuries during the current monitoring period (20/01/2023-29/02/2024). Employees are satisfied for taking health and safety trainings every year.

<p>4.</p>	<p>ER_y (SDG 13 & Target: SDG 13.3)</p>	<p>Emission Reductions in year y</p>	<p>Checking EPIAŞ records</p>	<p>The net electricity generation has been checked from the EPIAŞ records (and cross-checked with OSOS records(monthly electricity meter readings)). The details of the electricity generation are provided in Section 4.8 of this verification report. The electricity values have been multiplied by the ex-ante emission factor of 0.6488 tCO₂/MWh.</p>
<p>5.</p>	<p>Water Quality and Quantity (Disposal of the Waste Water) (Principle 9.4)</p>	<p>Waste water disposal</p>	<p>By checking whether disposal practices comply with legal requirements (Continuously)</p>	<p>With evidence documents, a septic tank for collection of wastewater has been checked. The sewage is transferred by sewage truck to the municipality sewage system as per the “Regulation on Control of Water Contamination”. The wastewater transfer receipts dated 12/08/2023 and 05/02/2024 were provided to VVB.</p>
<p>6.</p>	<p>High Conservation Value Areas and Critical Habitats (Principle 9.10)</p>	<p>Birds observation</p>	<p>Checking logbook for bird/bat nests and carcasses</p>	<p>During the on-site visit dated 26/03/2024, the logbook for bird/bat nests and carcasses has been checked and there was no problem. Also, the employees were interviewed about this subject. No negative comments were received from them. Also, the photographic evidences of the relevant logbook was provided by the project owner for the year 2023. There are no bird/bat nests and carcasses and recording on logbook by appointed personnel until now.</p>

The project contributes to SDG 7 (Affordable and Clean Energy with 41,753.626 MWh net electricity generation), SDG 8 (Decent Work and Economic Growth with total 7 employed staff during the recent year of operation period and there are several training records which are indicated above), SDG-13 (Climate Action with achieved emission reduction of 27,088 tCO₂e) during the monitoring period.

Therefore, based on the on-site visit observations, handled interviews and provided documents, it can be confirmed that sustainability parameters are monitored in line with the registered Monitoring Plan.

Applied GS4GG activity and product requirements for this project is listed in below:

- Projects has made positive contributions to a minimum of three Sustainable Development Goals which are SDG 7, SDG 8 and SDG 13.
- Projects has been appointed an eligible GS VVB, which is Re-carbon Ltd, to conduct the verification of Renewable Energy Label Projects.
- Projects seeking issuance of both Gold Standard VERs and Gold Standard Renewable Energy Labels has been verified concurrently by same GS VVB, which is Re-carbon Ltd.
- Projects has included, within the Monitoring Report, the reporting of MWh generated and supplied to the grid (including evidence from the grid regulator).
- According to GHG Emissions Reduction & Sequestration Product Requirements para 4:
 - Only Carbon Dioxide (CO₂), Methane (CH₄) and/or Nitrous Oxide (N₂O) are eligible for GSVERs or GSCERs, provided Projects comply with all GS4GG Requirements and eligibility criteria. Çataltepe WPP project is only doing reduction for only Carbon Dioxide (CO₂), so this project is eligible for GS4GG activity and product requirements.
 - Projects involving the reduction of eligible and non-eligible greenhouse gases (GHGs) shall be eligible for the crediting of emission reductions associated with eligible GHGs only. This project is only doing reduction for only Carbon Dioxide (CO₂), so this project is eligible for GS4GG activity and product requirements.
- According to Renewable Energy Activity Requirements para 2.1.2:
 - In order to be eligible for Gold Standard certification, all Renewable Energy Projects, shall meet the following Eligibility Criteria:
 - a) Projects shall generate and deliver energy services (e.g., mechanical work/electricity/heat) from non-fossil fuel and renewable energy sources. This project is generating electricity from wind energy which is non-fossil fuel energy type, so this condition is applicable for this project.
 - b) Projects shall comprise of renewable energy generation units, such as solar photovoltaic, tidal/wave, wind, hydro, geothermal, waste to energy and renewable biomass, that are:
 - Supplying energy to a national or a regional grid; OR
 - Supplying energy to an identified consumer facility via national/regional grid through a contractual agreement such as wheeling. This project is physically connected to Turkish National Grid and comprise of renewable energy generation units from wind energy. So this condition is applicable.

- c) Any Project supplying electricity to a mini-grid¹ shall refer to Community Services Activity Requirements. This project is supplying electricity to Turkish National Grid so this condition is not applicable.
- d) Projects generating on-site energy for captive consumption at an industrial facility shall refer to the requirements in this document. This project is generating on-site energy for captive consumption at an industrial facility, so this is applicable.

This project is applicable for GS4GG activity and product requirements as explained in above.

4.7. Compliance with the Calibration Frequency Requirements for Measuring Instruments

Although, re-calibration is required after ten years, nevertheless, in case of irregular difference between main and back-up meters, UEDAS responsible are informed for the intervention. That means, UEDAS is responsible for the calibration and maintenance of the devices.

Currently, the serial numbers of the meters are 51052836 (Landis) for the main meter and 6839363 (EMH) for the backup meter, respectively. All documents regarding meter quality and test have been presented for the second verification period (1st verification of 2nd CP). The installation documents of the electricity meters dated 10/11/2017 for back-up meter and 06/10/2017 for main meter (i.e., the meter change dates) and initial calibrations of the documents of the electricity meters dated 07/06/2017 for back-up meter and 15/01/2015 for main meter were provided by the project owner. Also, the meter test dated 07/06/2017 for back-up meter and 15/01/2015 for main meter was provided to VVB.

All data collected as part of monitoring will be archived electronically by the project owner and be kept at least for 2 years after the end of the last crediting period.

4.8. Assessment of Data and Calculation of Emission Reductions

OSOS records (monthly electricity meter readings) and EPIAS records have been presented to the VVB for all months of the monitoring period. All data in emission reductions table are checked with monthly electricity meter readings (“Summary” Excel sheet in the ER Calculation Excel spreadsheet). EPIAŞ records are the main data source whereas OSOS records (monthly electricity meter readings) have been utilized as the cross-check data source. The net electricity generation has been measured from the EPIAŞ records (and cross-checked with OSOS records) and measuring the ratio between registered and unregistered turbines’ electricity generation from electricity meter readings. Also, for January 2023, to calculate the electricity generation values, apportioning has been done based on number of days. The net electricity generated during the current monitoring period was as follows in Table 4-2 below:

Table 4-2: Net Electricity Generation Values

Period	Amount	Compliance check
20/01/2023 – 31/12/2023	Export to Grid: 33,943.933 MWh Import from Grid: 19.947 MWh	EPIAŞ records and checking proportion of total electricity

Period	Amount	Compliance check
	Net electricity supplied to grid: 33,923.985 MWh	produced monthly for 12 days because in January 2023, there are 31 days and 12 of them can be calculated for emission reduction since monitoring period starts on 20/01/2023. Also, electricity generation for the included turbines has been measured by taking the ratio of electricity generation amounts between included and excluded turbines from SCADA system readings.
01/01/2024 – 29/02/2024	Export to Grid: 7,833.608 MWh Import from Grid: 3.968 MWh Net electricity supplied to grid: 7,829.640 MWh	EPIAŞ records Also, electricity generation for the included turbines has been measured by taking the ratio of electricity generation amounts between included and excluded turbines from SCADA system readings.
Total 20/01/2023 – 29/02/2024)	Export to Grid: 41,777.541 MWh Import from Grid: 23.916 MWh Net electricity supplied to grid: 41,753.626 MWh	EPIAŞ records

Electricity generations can be seen daily in SCADA system. Since the dates between 20/01/2023 and 31/01/2023 do not cover the entire month, daily electricity production was taken into account. For the specified dates, daily electricity production has been verified from the SCADA system. There are 2 electricity meters and these meters measure the generated electricity of 27.75 MWe. Therefore, a ratio has been introduced to calculate the generated electricity of 16 MWe. The formula of the electricity generation is as follows:

$$SCADA. EG_{PJ,y} = EG_{facility,y} * EG_{RATIO,y}$$

Where:

$EG_{PJ,y}$ = Design Certified Quantity of net electricity generation (16 MW) supplied to the grid in year y by the project plant/unit that has been added under the project activity (MWh/yr)

$EG_{facility,y}$ = Quantity of total net electricity generation supplied to the grid in year y by the facility (capacity addition and the existing capacity) and measured by the TEİAŞ meters (MWh/yr)

$EG_{RATIO,y}$ = Ratio between electricity generation of the plans/units of the Project Activity (16 MW) and the total gross generation of the 27.75 MW facility in year y (%) calculated as per SCADA.

VVB confirms that the data used for emission reductions are correct. The grid emission factor taken is 0.6488 tCO₂/MWh and the value is same as fixed ex-ante in the registered PDD.

VVB also confirms that the methods and formulae used for calculating baseline emissions are in line with the methodology and the registered PDD. The net electricity generation is multiplied with the grid emission factor to arrive at the emission reductions.

The grid emission factor and data and parameters available before validation are also applied in line with the registered PDD.

Furthermore, double counting issue has also been assessed and the verification team has also checked the I-REC Registry (<https://evident.services/device-register>) and this project is not available within I-REC Registry database. Similarly, VCS project database (<http://vcsprojectdatabase.org/#/home>) and GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects) were checked and this project is not available within VCS and GCC projects' databases, either. Given that CDM projects are not applicable in Turkey and the project does not appear on domestic REC scheme, I-REC, VCS and GCC registries, it could be confirmed that no RECs and other VER carbon credits are being issued for the project at the time of this verification.

4.9. Quality of Evidence

According to the PDD, the estimated emission reduction for this monitoring period would be 29,691 tCO₂e corresponding to the monitoring period. However, the project in operation totally reached 27,088 tCO₂e in this period.

The vintage break-up of the emission reductions during the current monitoring period was as follows in Table 4-3 below:

Table 4-3: Emission Reduction Values

Period	Emission reductions (tCO ₂ e)
20/01/2023 – 31/12/2023	22,009
01/01/2024 – 29/02/2024	5,079
Total 20/01/2023 - 29/02/2024)	27,088

Calculations have been reproduced by the VVB and the source data (EPIAŞ records) are presented by the PP. PP can only claim ERs between 20/01/2023 to 29/02/2024 for the first

monitoring period of the second crediting period. Calculations have been reproduced by the VVB and the source data (EPIAŞ records) are presented by the PP.

4.10. Management System and Quality Assurance

There are two electricity meters as one main and one back up meter attached to the power plant for measurement of the generated electricity which were installed to the plant. The meters used in the power house are in line with the Energy Market Regulatory Authority (EMRA) requirements for the electricity meters. Both these meters are bi-directional (meter the energy in two directions – consumption and production). If there is a measuring difference between these two meters and one of the parties (UEDAS or the PP) requests for calibration of the meters, in this case, the meters will be calibrated without waiting for the periodical check. This calibration process is made by an accredited party under the control of UEDAS and the PP is not responsible for calibration of the meters in Turkey according to the local standards and requirements.

4.11. Materiality

The VVB checked all data set (the net electricity generation has been measured from the EPIAŞ records, which have been cross-checked with OSOS records (monthly electricity meter records), from 20/01/2023 – 29/02/2024 and measuring the ratio between registered and unregistered turbines. Also, for January 2023, to calculate the electricity generation values, apportioning has been done based on number of days and each day of production is included in these readings. They are recorded and saved automatically and there is no base for any option of material information. Electricity generations can be seen daily in SCADA system. Since the dates between 20/01/2023 and 31/01/2023 do not cover the entire month, daily electricity production was taken into account for 12 days. For the specified dates, daily electricity production has been verified from the SCADA system. Also, a ratio has been introduced to calculate the generated electricity of registered turbines of the project activity. Materiality threshold of the project is 2 percent of emission reductions since this project is large scale and achieved a total emission reduction of less than 300,000 tons of carbon dioxide.

Level of materiality is ensured by application of “Guideline on the Application of Materiality in Verifications” version 02. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

4.12. Verification of Sampling Plan

No sampling approach is used.

4.13. Post Registration Changes

4.13.1. Temporary deviations

N/A

4.13.2. Corrections

N/A

4.13.3. Changes to the start date of the crediting period

N/A

4.13.4. Permanent changes

N/A (For the monitoring period there are no changes in the project activity.)

4.13.5. Changes to the project design

N/A

5. LIST OF INDIVIDUALS INTERVIEWED

The list of individuals who were interviewed during the verification period is given in Table 5-1 below:

Table 5-1: List of individuals interviewed

Reference Number	Means of Interview ²	Full Name	Title	Organization
1	SV	Çağla BACI ERIŞ	Consultant	Rüzgar Danışmanlık
2	SV	Sevim COŞGUN	Female Stakeholder	Kocadağ Village
3	SV	Dudu ÇELEBİ	Female Stakeholder	Kocadağ Village
4	SV	Ümmü BALABAN	Female Stakeholder	Kocadağ Village
5	SV	Nurten ÇAKIRCA	Female Stakeholder	Kocadağ Village
6	SV	Nefise BALABAN	Female Stakeholder	Kocadağ Village
7	SV	Dudu COŞGUN	Female Stakeholder	Kocadağ Village
8	SV	Şükran COŞGUN	Female Stakeholder	Kocadağ Village
9	SV	Mustafa ŞENER	Male Stakeholder	Karalar Village
10	SV	Fahri COŞGUN	Security	Alize Enerji / Kocadağ Village
11	SV	Muhterem BALABAN	Security	Alize Enerji / Karalar Village
12	SV	Ömer ŞENER	Security	Alize Enerji / Karalar Village
13	SV	Tuncay COŞGUN	Security	Alize Enerji / Kocadağ Village
14	SV	Ahmt KÜSUR	Headman	Kocadağ Village
15	SV	Helin TÜZER	Trainee Verifier	Re Carbon Ltd.
16	SV	İrem TAŞKIRAN	Verifier	Re Carbon Ltd.

² SV: Site visit; T: Telephone; EM: E-mail

6. LIST OF DOCUMENTS REVIEWED

The list of the documents which were reviewed during the verification period is given in Table 6-1 below:

Table 6-1: List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D01	Monitoring Report	0.1	15/03/2024
D02	Monitoring Report	0.2	16/04/2024
D03	ER Calculation Excel Sheet	0.1	15/03/2024
D04	ER Calculation Excel Sheet	0.2	16/04/2024
D05	EPIAS Records	-	20/01/2023 to 29/02/2024
D06	Monthly Electricity Meter Readings	-	20/01/2023 to 29/02/2024
D07	Waste Water Disposal Records	-	2023 2024
D08	Provisional Acceptance Protocols of first 8 Turbines	-	19/04/2011
D09	Provisional Acceptance Protocols of turbines number T9 T11 and T12	-	28/02/2019
D10	Provisional Acceptance Protocols of turbines number T10 and T13	-	08/02/2019
D11	Initial calibrations of the documents of the electricity meters	-	15/01/2015 07/06/2017
D12	Meter Change Protocol	-	06/10/2017 10/11/2017
D13	Meter first index protocol	-	22/04/2011
D14	Social Security Records of the Employees	-	2023 2024
D15	Registered PDD for the 2 nd Crediting Period	06	23/06/2023
D16	Validation Report of the 2 nd Crediting Period (VVB: Re-carbon Ltd.)	06	30/06/2023
D17	Generation License	-	18/04/2007
D18	Training Records	-	04-05/07/2023 17/08/2023

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D19	A signed declaration from the project owner about double counting and about legal contest	-	15/03/2024
D20	Connection Agreement of the Project activity	-	01/10/2010
D22	ACM0002	21.0	02/11/2022
D23	GS Design Renewal Review for 2 nd Crediting Period	-	09/08/2023
D24	Compliance and Grievance Mechanism Notebook (Location of the Logbook is Kocadağ village headman's office)	-	15/03/2024
D25	Bird observation	-	2023
D28	SCADA Electricity Meter Readings	-	20/01/2023 to 29/02/2024
D29	Single Line Diagram	-	15/03/2024
D30	SDG Impact Tool	0.1	15/03/2024
D31	SDG Impact Tool	0.2	27/05/2024
D32	Monitoring Report	0.3	27/05/2024
D33	GS RENEWABLE ENERGY ACTIVITY REQUIREMENTS	1.4	16/08/2021
D34	GHG EMISSIONS REDUCTION & SEQUESTRATION PRODUCT REQUIREMENTS	2.3	29/04/2024

7. VERIFICATION TEAM AND ITR COMPETENCE

Mr. Sandeep Kanda holds a Bachelor's degree in "Mechanical Engineering", a Master's degree in "Energy Systems Engineering" from the Indian Institute of Technology/Bombay and a Post Graduate Diploma in "Industrial Safety & Environmental Management" from the National Institute of Industrial Engineering in India. He has over 20 years of professional experience working in the area of energy and environmental management, capacity building, climate change adaptation and mitigation activities, sustainability, auditing and product development. Sandeep has been involved in various capacities in the development and impact assessment of more than 500 climate change mitigation projects and programmatic activities worldwide, covering a range of sectoral scopes, such as Energy industries (renewable-/non-renewable), Energy distribution, Energy demand, Manufacturing industries, Chemical industries, Transport, Metal production, Waste handling & disposal and Agriculture. With re-carbon, Sandeep is a free-lance Team Leader, ITR and a Project-Level Group 1, 5 and 6 Expert. Sandeep is also a Regional Expert for China, India, Indonesia, Mexico, Nepal, Philippines, Tanzania, Thailand, Türkiye and Vietnam.

Mr. Khalid Mahmood holds a Bachelor degree in "Chemistry, Botany, Zoology" from the Islamia University of Bahawalpur, a Master's degree in "in Environmental Science" from the from the University of the Punjab and a second Master's degree in "Environmental Protection and Agricultural Food Production" from the University of Hohenheim. He has over 15 years of professional experience working for a variety of DOEs as a Team Leader. With re-carbon Khalid is a Team Leader and a Project-Level Group 1 - GHG Project Type: Renewable Energy Production // Project-Level Group 6 - GHG Project Types: Capture & destruction of Landfill gas & Capture & use of Landfill gas & Avoidance of methane production in wastewater treatment Expert. Khalid is also a Regional Expert for Tunisia, Türkiye, Brazil, China, Pakistan.

Ms. İrem Taşkiran holds a B. Sc. in "Energy Systems Engineering" from Ankara Yıldırım Beyazıt University. With re-carbon, İrem is an internal Team Leader and a Technical Expert for Project-Level Group 1 - GHG Project Type: Renewable Energy Production. Furthermore, İrem is a Regional Expert for Türkiye. Currently İrem undergoes a training program for Project-Level Group 1 - GHG Project Type: Energy Efficiency Improvements.

Helin Tüzer holds a B.Sc. degree in "Agriculture" from Ankara University. With re-carbon, Helin is an internal Validator/Verifier Trainee in Project-Level Group 1 - GHG Project Type: Renewable Energy Production.

7.1. Appointment Certificates

CERTIFICATE OF APPOINTMENT



Within the scope and in strict accordance to the appointments indicated below, the bearer may:

- Participate in assessments conducted by re-carbon Ltd.
- Take the appointed positions within and outside of an assessment team
- Bring specific expertise to assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated. There is no defined validity period for this Certificate. However, The Certificate may be updated, suspended or cancelled at any time, as a result of performance assessments and/or other reasons as defined above.



This Appointment Certificate is granted on the date of **27.03.2024** by

Christian Johannes
(General Manager)

This Certificate of Appointment is given to

Mr. Sandeep Kanda

as a confirmation of compliance with re-carbon's internal qualification requirements for the following positions:



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT OR AN TECHNICAL AREA EXPERTISE (reference only)	Gold Standard					Verified Carbon Standard					CERCARBONO				
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
1	Energy Efficiency Improvements	3.1	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
5	Methane Collection & destruction	1.3.2	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
5	Livestock & other anaerobic digester operations	1.3.2	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
5	Agricultural methane emission reduction	1.5.1	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
5	Agricultural carbon emission reduction	1.6.1	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
6	Capture & destruction of landfill gas	1.3.1	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
6	Capture & use of landfill gas	1.3.1	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
6	Avoidance of methane production in wastewater treatment	1.3.1	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						
SDS Criteria:			08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022	08.02.2022						



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT OR AN TECHNICAL AREA EXPERTISE (reference only)	ICR					BioCarbon					GCC				
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
1	Energy Efficiency Improvements	3.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
5	Methane Collection & destruction	1.3.2	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
5	Livestock & other anaerobic digester operations	1.3.2	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
5	Agricultural methane emission reduction	1.5.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
5	Agricultural carbon emission reduction	1.6.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
6	Capture & destruction of landfill gas	1.3.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
6	Capture & use of landfill gas	1.3.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
6	Avoidance of methane production in wastewater treatment	1.3.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023
SDS Criteria:			02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023

COUNTRY EXPERTISE:

China, India, Indonesia, Mexico, Philippines, Tanzania, Thailand, Turkiye, Vietnam for all above listed GHGRSs

1*	Trainee	Trainee	Trainee	Trainee	Trainee
5*	Trainee	Trainee	Trainee	Trainee	Trainee
CORREIA	Trainee	Trainee	Trainee	Trainee	Trainee

CERTIFICATE OF APPOINTMENT



Within the scope and in strict accordance to the appointments indicated below, the bearer may:

- Participate in assessments conducted by re-carbon Ltd.
- Take the appointed positions within and outside of an assessment team
- Bring specific expertise to assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated. There is no defined validity period for this Certificate. However, The Certificate may be updated, suspended or cancelled at any time, as a result of performance assessments and/or other reasons as defined above.



This Appointment Certificate is granted on the date of **27.03.2024** by

Christian Johannes
(General Manager)



This Certificate of Appointment is given to

Ms. İrem Taşkıran

as a confirmation of compliance with re-carbon's internal qualification requirements for the following positions:

PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE (reference only)	Gold Standard					Verified Carbon Standard					CERCARBONO				
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023							09.11.2022
1	Energy Efficiency Improvements	3.1	Trainee	Trainee	Trainee		Trainee	Trainee	Trainee	Trainee							Trainee
5	Methane Collection & destruction	13.2															
5	Livestock & other anaerobic digester operations	13.2															
5	Agricultural methane emission reduction	15.2															
5	Agricultural carbon emission reduction	15.2															
6	Capture & destruction of landfill gas	13.1															
6	Capture & use of landfill gas	13.1															
6	Avoidance of methane production in wastewater treatment	13.1															
SDS Criteria:			23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023							09.11.2022



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE (reference only)	ICR					BioCarbon					GCC				
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023							09.11.2022
1	Energy Efficiency Improvements	3.1	Trainee	Trainee	Trainee		Trainee	Trainee	Trainee	Trainee							Trainee
5	Methane Collection & destruction	13.2															
5	Livestock & other anaerobic digester operations	13.2															
5	Agricultural methane emission reduction	15.1															
5	Agricultural carbon emission reduction	15.1															
6	Capture & destruction of landfill gas	13.1															
6	Capture & use of landfill gas	13.1															
6	Avoidance of methane production in wastewater treatment	13.1															
SDS Criteria:			23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023							09.11.2022

COUNTRY EXPERTISE:

Türkiye for all above listed GHGRs

FR	15.03.2024	15.03.2024	15.03.2024		15.03.2024
ES	15.03.2024	15.03.2024	15.03.2024		15.03.2024
COREIA	15.03.2024	15.03.2024	15.03.2024		15.03.2024

CERTIFICATE OF APPOINTMENT



Within the scope and in strict accordance to the appointments indicated below, the bearer may:

- Participate in assessments conducted by re-carbon Ltd.
- Take the appointed positions within and outside of an assessment team
- Bring specific expertise to assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated. There is no defined validity period for this Certificate. However, The Certificate may be updated, suspended or cancelled at any time, as a result of performance assessments and/or other reasons as defined above.



This Appointment Certificate is granted on the date of **27.03.2024** by

Christian Johannes
(General Manager)

This Certificate of Appointment is given to

Mr. Khalid Mahmood

as a confirmation of compliance with re-carbon's internal qualification requirements for the following positions:



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE	Gold Standard					Verified Carbon Standard					CERCARBONO				
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023						
1	Energy Efficiency Improvements	3.1															
5	Methane Collection & destruction	13.2															
5	Livestock & other anaerobic digester operations	13.2															
5	Agricultural methane emission reduction	15.2															
5	Agricultural carbon emission reduction	15.2															
6	Capture & destruction of landfill gas	13.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	Trainee	18.07.2023							
6	Capture & use of landfill gas	13.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	Trainee	18.07.2023							
6	Avoidance of methane production in wastewater treatment	13.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	Trainee	18.07.2023							
SDS Criteria:			18.07.2023	18.07.2023	18.07.2023		18.07.2023	18.07.2023	18.07.2023		18.07.2023	18.07.2023	18.07.2023		18.07.2023	18.07.2023	18.07.2023



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE	ICR					BioCarbon Registry					GCC				
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	15.07.2023	15.07.2023	15.07.2023	Trainee	18.07.2023
1	Energy Efficiency Improvements	3.1															
5	Methane Collection & destruction	13.2															
5	Livestock & other anaerobic digester operations	13.2															
5	Agricultural methane emission reduction	15.1															
5	Agricultural carbon emission reduction	15.1															
6	Capture & destruction of landfill gas	13.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023
6	Capture & use of landfill gas	13.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023
6	Avoidance of methane production in wastewater treatment	13.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023
SDS Criteria:			18.07.2023	18.07.2023	18.07.2023		18.07.2023	18.07.2023	18.07.2023		18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023	18.07.2023

COUNTRY EXPERTISE:

Brazil, China, Pakistan, Türkiye, Tunisia for all above listed GHGRS

FR	15.03.2024	15.03.2024	15.03.2024	15.03.2024
ES	15.03.2024	15.03.2024	15.03.2024	15.03.2024
COREIA	15.03.2024	15.03.2024	15.03.2024	15.03.2024

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CERTIFICATE OF APPOINTMENT



Within the scope and in strict accordance to the appointments indicated below, the bearer may:

- Participate in assessments conducted by re-carbon Ltd.
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- Bring specific expertise to assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated. There is no defined validity period for this Certificate. However, The Certificate may be updated, suspended or cancelled at any time, as a result of performance assessments and/or other reasons as defined above.



This Certificate of Appointment is given to

Ms. Helin Tüzer

as a confirmation of compliance with re-carbon's internal qualification requirements for the following positions:

This Appointment Certificate is granted on the date of **27.03.2024** by

Christian Johannes
(General Manager)



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE (reference only)	Gold Standard					Verified Carbon Standard					CERCARBONO					
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	
1	Renewable Energy Production	1.2	Trainee	Trainee			Trainee											
1	Energy Efficiency Improvements	3.1																
5	Methane Collection & destruction	13.2																
5	Livestock & other anaerobic digester operations	13.2																
5	Agricultural methane emission reduction	15.2																
5	Agricultural carbon emission reduction	15.2																
6	Capture & destruction of landfill gas	13.1																
6	Capture & use of landfill gas	13.1																
6	Avoidance of methane production in wastewater treatment	13.1																
SDS Criteria:																		



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE (reference only)	ICR					BioCarbon					GCC						
			VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT		
1	Renewable Energy Production	1.2	Trainee	Trainee			Trainee					Trainee							
1	Energy Efficiency Improvements	3.1																	
5	Methane Collection & destruction	13.2																	
5	Livestock & other anaerobic digester operations	13.2																	
5	Agricultural methane emission reduction	15.1																	
5	Agricultural carbon emission reduction	15.1																	
6	Capture & destruction of landfill gas	13.1																	
6	Capture & use of landfill gas	13.1																	
6	Avoidance of methane production in wastewater treatment	13.1																	
SDS Criteria:																			

COUNTRY EXPERTISE: Trainee for Türkiye for all above listed GHGRSs

Türkiye	15.03.2024	15.03.2024			15.03.2024
Türkiye	15.03.2024	15.03.2024			15.03.2024
GERMANY	15.03.2024	15.03.2024			15.03.2024

8. VERIFICATION AND CERTIFICATION OPINION

Re Carbon Ltd. performed the 2nd (1st verification of 2nd CP) periodic verification of Gold Standard Çataltepe 16 MW Wind Farm Project, Turkey, a project with the registry reference number “GS574” for the period in between 20/01/2023 and 29/02/2024. The scope of our activities covers the verification and the certification of GHG emissions reductions, as reported in the Monitoring Report Version 0.3 dated 27/05/2024 of Çataltepe 16 MW Wind Farm Project, Turkey.




Rüzgar Karbon ve Enerji Danışmanlık Sanayi Ticaret Limited Şirketi is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring Plan as indicated in the final PDD. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project are under the responsibility of the management of the Project. The development and maintenance of the records and the related monitoring procedures are in accordance with the Monitoring Report Version 0.3.

The verification was performed by a verification team consisting of “Ms. Öykü YAKUPOĞLU as the Previous Team Leader, Mr. Khalid MAHMOOD as the Team Leader, Ms. İrem TAŞKIRAN as the Verifier, Ms. Helin TÜZER as the Trainee Verifier and Mr. Sandeep KANDA as the ITR, and the project activity was checked against the applicable rules and regulations of CDM including Section I of CDM Modalities and Procedures, the relevant guidance and decisions of the COP/MOP, CDM EB and CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, GS4GG version 1.2.

Re Carbon Ltd. hereby confirm that the project activity “Çataltepe 16 MW Wind Farm Project, Turkey” in Turkey, was implemented in accordance with the validated and registered PDD version 06, dated 23/06/2023. The monitoring system is in place and the emission reductions were calculated without material misstatements as per the applied approved methodology (ACM0002: Grid connected electricity generation from renewable electricity generation - Version 21.0).

Re Carbon Ltd. confirms the following, based on the results of the document review and the on-site assessment:

Project Title	Çataltepe 16 MW Wind Farm Project, Turkey
Applicable Period	20/01/2023 – 29/02/2024
Baseline Emissions	27,088 tCO ₂ e (20/01/2023 - 31/12/2023: 22,009 tCO ₂ e, 01/01/2024 - 29/02/2024: 5,079 tCO ₂ e)
Project Emissions	000 tCO ₂ e
Leakage Emissions	000 tCO ₂ e
Emission Reductions	27,088 tCO ₂ e (20/01/2023 - 31/12/2023: 22,009 tCO ₂ e, 01/01/2024 - 29/02/2024: 5,079 tCO ₂ e)

		
Khalid MAHMOOD	Sandeep KANDA	Havva OZTURK
Team Leader	ITR	CMD Review
23/07/2024		

ANNEX 1: VERIFICATION PROTOCOL**Table 1 – Resolution of Corrective Action, Forward Action and Clarification Requests**

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Developers' Response	Verification Team Conclusion
CAR-1 Duration of monitoring period has been indicated wrong in the cover page.	KPI	Response: Duration of monitoring period has been corrected in the cover page.	Review-1: OK, closed. (MP duration has been corrected)
CAR-2 Electricity generation values has been indicated wrong in ER Excel sheet.	A.1	Response: It has been revised accordingly.	Review-1: OK, closed. (ER Excel sheet has been corrected)
CAR-3 For Ery parameter, measurement methods row should have been reconsidered, in MR template, section B.6.2 does not exist.	D.2	Response: For Ery parameter, measurement methods row have been corrected accordingly.	Review-1: OK, closed. (Parameter has been corrected)
CAR-4 Date of the waste oil record has not been indicated in parameter table and it has not been provided to VVB.	F.1	Response: There is only declaration official document is available which have already shared with the VVB.	Review-1: OK, closed.