



**Verified Carbon
Standard**

TOROS HYDROELECTRIC POWER PLANT 3RD VERIFICATION REPORT



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Project title	Toros Hydroelectric Power Plant
Project ID	1499
Verification period	01-01-2022 to 16-05-2023
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VCS Standard Version	4.7
Client	AYDEM Yenilenebilir Enerji A.Ş.
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Summary:

“Toros Hydroelectric Power Plant” is operated by “AYDEM Yenilenebilir Enerji A.Ş.”. The project activity is located in Adana Province in the Mediterranean Region of Turkey. The commissioning date of the project is 17/05/2013 as per the provisional acceptance protocol of the turbines. There are 2 Pelton turbines with the installed capacity of 26.025 MWm/24.995 MWe for each. Therefore, the total installed capacity of the project activity is 52.05 MWm/49.99 MWe. This information has been confirmed via the generation license.

The purpose of the project activity is to generate electricity and supply it into the national grid. The project activity reduces greenhouse gas (GHG) emissions that would have otherwise occurred in the absence of the project activity by avoiding electricity generation from fossil fuel sources.

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 PD version 2.02 and dated 20/04/2015.

The project activity and the monitoring report are assessed against the requirements of the approved consolidated baseline and monitoring Methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources.” Version 16.0.0 and VCS Standard version 4.7.

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle.

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)
2022	110,594	0	0	110,594
2023	24,016	0	0	24,016
Total	134,610	0	0	134,610

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1 INTRODUCTION

1.1 Objective

Through a contract, dated 26/05/2023, Re Carbon Ltd. was appointed by “AYDEM Yenilenebilir Enerji A.Ş.” to perform the 3rd periodic verification of the “Toros Hydroelectric Power Plant”. The objective of this verification activity was to assess, with objective evidence:

- if the monitoring report version 07 dated “10/07/2024” conforms with the requirements of the monitoring plan of the registered Project Description (PD) and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and
- if the data reported in the monitoring report are complete and transparent.

1.2 Scope and Criteria

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 PD version 2.02, dated 20/04/2015.

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 upon in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources.” Version 16.0.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, all 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, and VCS version 4.7.

The only purpose of the verification and certification is its usage during the issuance process as a part of the VCS 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.

1.3 Level of Assurance

Re Carbon Ltd. hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

1.4 Summary Description of the Project

“Toros Hydroelectric Power Plant” is operated by “AYDEM Yenilenebilir Enerji A.Ş.”. The project activity is located in Adana Province in the Mediterranean Region of Turkey. The commissioning date of the

project is 17/05/2013 as per the provisional acceptance protocol of the turbines. There are 2 Vertical Pelton turbines with the installed capacity of 26.025 MWm/24.995 MWe for each. Therefore, the total installed capacity of the project activity is 52.05 MWm/49.99 MWe. This information has been confirmed via the provisional acceptance protocol.

The technical description of the turbines and generators is as follows:

Equipment	Turbine
Quantity	2
Manufacturer	Sichuan Dongfeng Elektric Machinery Works Co. Ltd.
Rated speed	375 r/min
Runaway speed	668 r/min
Axis	Vertical Pelton
Net Head	373.14 m
Flow Rate	7690 L/s
Production Date	2011-4

Equipment	Generator
Manufacturer	Sichuan Dongfeng Elektric Machinery Works Co. Ltd.
Rotation	375 rpm
Frequency	50 Hz
Installation Date	2011
Number of Phase	3

The start date of the project activity is 17/05/2013 which is the date when the project is commissioned and the electricity was first supplied to the grid as verified through the provisional acceptance protocol and the first crediting period is from 17/05/2013 until 16/05/2023 with two times renewable crediting period of 10 years.

The monitoring period dates are as follow:

1 st monitoring period	17/05/2013 – 30/09/2020
2 nd monitoring period	01/10/2020 – 31/12/2021
3 rd monitoring period	01/01/2022 – 16/05/2023

2 VERIFICATION PROCESS

2.1 Method and Criteria

Through a contract, dated 26/05/2023, Re Carbon Ltd. was appointed by “AYDEM Yenilenebilir Enerji A.Ş.” to perform the 3rd periodic verification of the “Toros Hydroelectric Power Plant”. The objective of this verification activity was to assess, with objective evidence:

- if the monitoring report version 07 dated “10/07/2024” conforms with the requirements of the monitoring plan of the registered PD and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and
- if the data reported in the monitoring report are complete and transparent.

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 PD version 2.02 dated 20/04/2015.

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 upon in the Marrakech Accords under decision 3/CMP. 1., the annexes to this decision, ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources.” Version 16.0.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, all 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, and VCS version 4.7.

The only purpose of the verification and certification is its usage during the issuance process as a part of the VCS 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.

The Verification Schedule for this project activity is given in Table 2-1 below:

Table 2-1: Verification Schedule

Activity	Timeline		Total Days
	From	To	
Desk Review	27.07.2023	20.02.2024	209
Review of the MR version 01	2.10.2023	19.10.2023	18
Site Visit	4.08.2023	4.08.2023	1
Issuance of the Verification Protocol version 01	14.10.2023	19.10.2023	6
Review of PPs Initial Set of Responses	16.11.2023	11.12.2023	26
Issuance of the Verification Protocol version 02	10.12.2023	11.12.2023	2
Review of PPs Second Loop Responses	15.12.2023	2.01.2024	19
Issuance of the Verification Protocol version 03	2.01.2024	2.01.2024	1
Review of PPs Third Loop Responses	3.01.2024	3.01.2024	1
Closing of all the CARs and CLs	3.01.2024	3.01.2024	1
Issuance of the Verification Report version 01	20.02.2024	21.02.2024	2
ITR Process	21.02.2024	27.05.2024	97
Issuance of the Verification Report version 02	23.05.2024	25.05.2024	3
ITR Approval	27.05.2024	27.05.2024	1
Submission for Final Approval	27.05.2024	29.05.2024	3
Submission to the PP	29.05.2024	29.05.2024	1
Revisions based on VCS Review comments round 1	2.08.2024	2.08.2024	1

2.2 Document Review

The basis for the verification activity is the monitoring report version 1, dated 26/07/2023 which was submitted to the verification team on 27/07/2023. This monitoring report was revised several times due to issued CARs and CLs, with version 7, dated 10/07/2024 being the final version. The monitoring report and the monitoring activities were assessed against the registered PD, version 2.02, dated 20/04/2015, the ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources.” Version 16.0.0, the relevant VCS rules and regulations, CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, and the final validation report version 1.0 dated 11/05/2015.

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

The list of the documents which were reviewed during the verification period is given in Table 2-2 below:

Table 2-2: List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D01	Monitoring Report	1	26/07/2023
D02	Monitoring Report	2	16/11/2023
D03	Monitoring Report	3	14/02/2024
D04	ER Calculation Excel Sheet	01	26/07/2023
D05	ER Calculation Excel Sheet	02	16/11/2023
D06	ER Calculation Excel Sheet	03	14/02/2024
D08	Single Line Diagram	-	-
D09	System Usage Agreement	-	16/03/2020
D10	Generation License	-	18/01/2007
D11	Water Usage Agreement	-	07/03/2013
D12	Provisional Acceptance Document	-	17/05/2013

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D14	Meter change and First Index Protocol for current meters	-	20/06/2021
D16	Current Meters Test Reports	-	04/06/2021 24/10/2023
D17	Current Meter properties from the manufacturer company	-	-
D18	Technical Properties of the generators	-	-
D19	Photographic Evidences of the project site	-	-
D20	Official Gazette published including name change of the PP.	-	27/12/2019
D21	Registered VCS-PD for the 1 st Crediting Period	2.02	20/04/2015
D22	Photographic evidences of turbine name tags	-	-
D23	EPIAS Records	-	01/2022 - 05/2023
D24	Meter Reading Forms (OSF Forms) for cross-checking	-	01/2022 - 05/2023
D25	KMZ file of the Project Activity	-	-
D26	EIA Not Required Decision	-	23/06/2008
D30	Water and Wastewater Discharge Records	-	08/12/2022 10/09/2022 15/05/2022 24/02/2022 19/07/2022 30/01/2023 15/05/2023 22/03/2023 15/05/2023
D31	Waste Oil Records	-	03/11/2022 26/10/2022

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D32	Solid Waste Disposal Records	-	27/10/2022 28/04/2022 01/03/2023 28/03/2023
D33	Social Security Records of the Employees	-	2022 01-05/2023
D34	Signed Declaration about Double Counting	-	27/10/2023
D35	Training Records	-	2022 2023
D36	Signed and Sealed letter from the headman of the village about complaint box records	-	27/10/2023
D37	Signed and Sealed letter from the headman of the village proving that there is no negative effect of the project activity to the villagers	-	27/10/2023
D38	Photographic Evidence of the Complaint Box	-	-
D41	2 nd Monitoring Period Verification Report	05	27/01/2023
D42	ACM0002	16.0	28/11/2014
D43	Tool for the demonstration and assessment of additionality	07.0	23/12/2022
D44	Tool to calculate the emission factor for an electricity system	07.0	31/08/2018
D45	Tool to calculate project or leakage CO ₂ emissions from fossil fuel combustion	03.0	22/10/2017
D46	CDM Validation and Verification Standard for Project Activities	3.0	09/09/2021
D47	CDM Project Standard for Project Activities	3.0	09/09/2021
D48	2 nd Verification report	5.0	27/01/2023
D49	Monitoring Report	4	15/04/2024
D50	Monitoring Report	5	16/04/2024

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D51	Monitoring Report	6	13/05/2024
D52	Monitoring Report	7	10/07/2024

2.3 Interviews

During the verification period, follow-up interviews were executed by the verification team to further analyze the correctness and accurateness of the information provided.

The list of individuals who were interviewed during verification process, executed on 04/08/2023 using is given in Table 2-3 below:

Table 2-3: List of individuals interviewed

Reference Number	Means of Interview ¹	Full Name	Title	Organization
I01	SV	Mert ŞANLI	Project Manager	GTE Consultant
I02	SV	Sultan TUNÇBİLEK	Environmental Expertise	Aydem Yenilenebilir Enerji A.Ş.
I03	SV	Osman KARAKOŞ	Administrative Executive	AYDEM Yenilenebilir Enerji A.Ş.
I04	SV	Özgün Gül KOPARAN	Environmental executive	AYDEM Yenilenebilir Enerji A.Ş.
I05	SV	Bera Aydın	assistant environmental specialist	AYDEM Yenilenebilir Enerji A.Ş.

¹ SV: Site visit; T: Telephone; E: E-mail; RA: Remote Assessment

Reference Number	Means of Interview ¹	Full Name	Title	Organization
I06	SV	Eyip AYHANLIK	Administrative Executive	AYDEM Yenilenebilir Enerji A.Ş.
I07	SV	Mesut PEHLİVAN	Operation Executive	AYDEM Yenilenebilir Enerji A.Ş.
I08	SV	Ahmet GÖÇER	Mukhtar	AYDEM Yenilenebilir Enerji A.Ş.
I09	SV	Metehan ODABAŞ	Local people	Yerköprü village
I10	SV	Kağan KARACA	Local people	Yerköprü village

2.4 Site Visits

As a part of the verification activities a physical site visit was executed to the project activity's location, details of which can be seen in Table 2-4 below:

Table 2-4: Site visit details

Date	04/08/2023	
Location	Karahisalı Town, Adana Province	
Participant	Company Name	Role in the Organization / Role in the Site Visit
Mert ŞANLI	GTE Consultant	Project Manager
Sultan TUNÇBİLEK	Aydem Yenilenebilir Enerji A.Ş.	Environmental Expertise
Osman KARAKOŞ	AYDEM Yenilenebilir Enerji A.Ş.	Administrative Executive
Özgün Gül KOPARAN	AYDEM Yenilenebilir Enerji A.Ş.	Environmental executive
Bera Aydın	AYDEM Yenilenebilir Enerji A.Ş.	assistant environmental specialist
Eyip AYHANLIK	AYDEM Yenilenebilir Enerji A.Ş.	Administrative Executive
Mesut PEHLİVAN	AYDEM Yenilenebilir Enerji A.Ş.	Operation Executive
Ahmet GÖÇER	AYDEM Yenilenebilir Enerji A.Ş.	Muhktar
Metehan ODABAŞ	Yerköprü village	Local people
Kağan KARACA	Yerköprü village	Local people
Khalid MAHMOOD (remotely)	Re Carbon Ltd.	Team Leader
İrem Taşkıran	Re Carbon Ltd.	Verifier Trainee
Points Verified	Source of Information	
Implementation and operation of the proposed VCS project activity as per the registered PD	• Operation and maintenance Procedures, Calibration, JMR. • Local employment, trainings, • Monitoring of SDG parameters • Data archiving, breakdown details	
Review of information flows for generating, aggregating, and reporting the monitoring parameters		
Interviews with relevant personnel to confirm that the operational and data		

collection procedures are implemented in accordance with the monitoring plan in the PD	•O&M of the plant site and personnel responsible for monitoring of required monitored parameters and implementation of QA/QC Procedure. •Stakeholder meeting Employment opportunities, Standard of Livings, etc. •The ongoing communication procedure and the address of their grievance mechanism followed by the project proponent Scope and generation of employment in the locality due to the implementation of said project activity in the area.
Cross-check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources	
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD and the selected methodology	
Review of calculations and assumptions made in determining the GHG data and emission reductions	
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	

2.5 Resolution of Findings

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

- Assessment of the conformity of the actual project activity and its operation with the registered PD, dated 20/04/2015, version 2.02.
- A physical site visit was executed on 04/08/2023 in order to assess whether all physical features of the project activity proposed in the registered PD are in place and that the Project proponent(s) operated the project activity in line with the registered PD.
- Assessment of the compliance of the monitoring plan with the monitoring methodology “ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, Version 16.0.0.
- Assessment of the compliance of 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 of issuance

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

The Verification Protocol consists of two tables:

- 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 2-5 below:

Table 2-5: Explanation about Table-1 in Verification Protocol

Draft Report Clarifications, Forward Action and Corrective Action Requests by Verification Team	Ref. to Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
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 proponents 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.

During the verification process, a Verification Protocol (attached as Appendix 1 to this verification report) was used to submit the findings to the Project proponent(s).

In line with Re Carbon Ltd.'s internal terminology and VCS Standard version 4.4, the team reports the non-conformities in forms 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:

- Non-conformities with the monitoring plan or methodology are 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 proponents.

The verification team raises a **CL** if information is insufficient, not transparent or not clear enough to determine whether the applicable CDM and/or VCS requirements have been met.

The verification team raises a **FAR** during verification for actions where the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles a total of 22 CARs, 00 CLs and 00 FARs were issued, all of which are listed in the Verification Protocol.

The appointment process of the verification team considers the technical area(s), sectoral scope(s), and relevant host country experience, required amongst team members for the verification of the emission reductions, achieved by the project activity in the relevant monitoring period for this verification. The relevant VCS verification and previous ITR experiences are also assessed during the selection of the team members and the Independent Technical Reviewer (ITR), respectively. The verification team and ITR were assigned to this verification activity on 18/05/2023 (with a team change on 31/07/2023), taking all the above factors into consideration, and as a result of the contract review process.

The verification team and ITR details are given in Table 2-6 below:

Table 2-6: Verification team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise (TA 1.2)	Involv.
Öykü Yakupoğlu	Team Leader (Previous)	☒	☒	☒	DR
Khalid MAHMOOD	Team Leader	☒	☒	☒	A, DR, RA, R
İrem TAŞKIRAN	Verifier Trainee	☒	☒	☒	A, DR, R, SV
Kader ALKAÇ	Verifier Trainee	☒	☒	☒	A, DR, R,
Sandeep KANDA	ITR	☒	☒	☒	ITR

Previous Team Leader was Ms. Öykü YAKUPOĞLU and current Team Leader is Mr. Khalid MAHMOOD. Ms. Öykü YAKUPOĞLU is no longer an employee of Re-carbon Ltd. Therefore, a team change has occurred.

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

A : Administrative

DR : Desk Review

SV : Site Visit

RA : Remote Assessment

R : Reporting

ITR : Independent Technical Review

As a closing step of verification, the final documentation including the verification report and its annexes must undergo an internal quality control by 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 of RE-Carbon Ltd. who was not involved in the verification activities of this specific project activity. When the appointed Team Leader finalizes the Validation Report, the report is sent to the (for this project specifically appointed) Independent Technical Reviewer who reviews not only the verification report itself, but also all supporting documents like emission factor calculations, additionality justifications, relevant excel sheets etc.

Further CLs and CARs may be raised by the Independent Technical Reviewer during this review, in order to cover all the points that may need further clarification.

After all CLs and CARs are closed, the verification report is again reviewed and finally approved by the Team Leader, ITR and the Certification Manager, and the request for issuing is submitted to the Project Developer along with the relevant documents.

2.5.1 Forward Action Requests

The verification team raises a FAR during the verification for actions if the monitoring and reporting require attention and/or adjustment in the next verification period, as explained in Section 2.5.

According to these principles, no FARs have been issued during the current verification process. Furthermore, no FAR had been raised on the previous process of the project (2nd verification of the first crediting period) according to the 2nd verification report version 05 dated 21/01/2023.

2.6 Eligibility for Validation Activities

Re Carbon Ltd. holds accreditation for the validation and verification activities in scope 1: “Energy Industries – Renewable/Non-renewable Sources” in which the project activity falls into.

3 VALIDATION FINDINGS

3.1 Methodology Deviations

N/A (There have not been any methodology deviations applied.)

3.2 Project Description Deviations

In the registered VCS PD, the PP is “Bereket Enerji Üretim Anonim Şirketi”. Then, title of the company changed from Bereket Enerji Üretim San. ve Tic. A. Ş. to Aydem Yenilenebilir Enerji A.Ş which is the current project proponent. The project activity is in compliance with the scenario described at the Project Design Document and validated by the validation report dated 11/05/2015.

In registered VCS PD Ver 2.02, the Cappj (Installed capacity of the hydropower plant were stated as 49,000,000 W). However, in the EPDK license with a registration number of EÜ/1062-2/782 and date of 18/01/2007, the installed capacity was stated as 49.99 MWe (49,990,000 W). Hence, the Cappj value was corrected in the sections 4.2 and 5.2 of MR version 2.02. This deviation does not cause any change for chosen methodology of ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Ver 16.0 as the installed capacity is under 50 Mwe.

Re Carbon Ltd. hereby confirms that such a change has no impact on the applicability of the methodology, additionality and the appropriateness of the baseline scenario.

3.3 New Project Activity Instances in Grouped Projects

The project is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

According to the registered PD, the estimated annual emission reduction is 127,655 tCO_{2e} and corresponding total estimated amount for the monitoring period is 180,466.07 tCO_{2e}. The actual values achieved for the current monitoring period is 134,610 tCO_{2e}. The actual amount of emission reduction for the current monitoring period is about 25.4% less than the estimated emission reduction amount. The reason of the difference is that the electricity generation is dependent on water flow estimation, which is a natural phenomenon and cannot be estimated with 100% accuracy. Besides that, the difference in the values does not lead to a substantial decrease of the ER in this period in relation to the estimates in the registered PD.

The project also contributes to SDG 7 (Affordable and Clean Energy with 252,454.88 MWh net electricity generation), SDG 8 (Decent Work and Economic Growth with 26 employed staff during the recent year of operation period and all are permanent staff) and SDG-13 (Climate Action with achieved emission reduction of 134,610 tCO_{2e}) during the monitoring period.

The project was commissioned on 17/05/2013 which was verified by the provisional acceptance protocol. The project activity does consist of 2 units.

The GHG emission reductions generated by the project are not included in an emission trading program or any other mechanism that includes GHG allowance trading, because of the position of the host country.

The project activity has not received any other form of environmental credits, as there are no such crediting schemes in the host country as declared by the PP.

Double counting issue has been assessed and the validation team has checked the ICR project database (Carbon Projects (carbonregistry.com)), GS project database (<https://www.goldstandard.org/resources/impact-registry>), GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects), BCR project database

(Global CarbonTrace) and CerCarbono database (EcoRegistry) were checked and this project is not available within ICR, GS, GCC, BCR and CERCARBONO projects' databases, either. The project does not appear on VCS, GS, GCC, BCR and CERCARBONO registries, it could be confirmed that no other VER carbon credits are being issued for the project, hence Re Carbon Ltd. confirms that the project has not participated or been rejected under any other GHG programs since the validation.

Remaining Issues from Validation or Previous Verifications

There is no FAR from the second verification process (according to verification report version 05 dated 27/01/2023).

Compliance of the Monitoring Plan with the Monitoring Methodology

The monitoring plan is in accordance with the approved methodology, ACM0002, version 16.0.0, applied by the project activity.

In line with the methodology and the registered PD, the monitored parameter is the quantity of net electricity generation supplied by the project plant to the grid ($EG_{facility,y}$) as in below:

- **$EG_{facility,y}$** : The quantity of net electricity delivered to the grid has been calculated with the EPIAS (the financial settlement centre of TEIAS) records provided to the PP by TEIAS. The net electricity is measured continuously by one main electricity meter at the grid interface and recorded monthly. There are also one back up electricity meter. That means the electricity generation and consumption values have been determined through the summation of the measured values of the main meter and checked through the back up meter. All readings and billings are done via EPIAS system which is the legal database of the Ministry of Energy and Natural Resources in Turkey. During this verification, all EPIAS and TEIAS meter reading protocol records have been reviewed by the verification team. The project mainly uses its own electricity however during the times when there is no generation, the project imports electricity from the grid. There are also internal reviews of the metered data which is checked by different parties. The EPIAS records are considered as the main source for the net electricity and the values are crosschecked with the Meter Reading Forms.
- **Cap_{PJ}** : Installed capacity of the hydropower plants after the implementation of the Project Activity has been monitored via the SCADA system of the project activity once for each monitoring period.
- **A_{PJ}** : Area of the reservoir measured in the surface of the water, after the implementation of the Project Activity, when the reservoir is at its maximum fullness has been determined via the topographic satellite images showing the lake area which is represented in the Appendix-2 of the MR.

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.

Compliance with the Calibration Frequency Requirements for Measuring Instruments:

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 calibrated electricity meters were installed as per the regulations. Although, re-calibration is required after ten years, nevertheless, in case of irregular difference between main and cross-check spare meters, TEIAS (grid company) responsible unit is informed for the intervention. That means, TEIAS is responsible for the calibration and maintenance of the meters. The calibration of the meters is valid for 10 years in line with the relevant legal regulation.

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

Current ones:

	Main Meter	Spare Meter
Brand-Model	EMH	EMH
Serial Number	10172377	10172878
First Calibration Date	20/06/2021	20/06/2021
Manufacture Date	2021	2021
Calibration Frequency	10 years	10 years
Class	0.2 S	0.2 S
Test Date	04/06/2021	04/06/2021
	24/10/2023	24/10/2023

As a result of the reviewed documents, Re Carbon Ltd. hereby confirms that the project is fully implemented according to the description given in the registered PD.

It can also be confirmed through the reviewed documents that all physical features of the project activity including data collecting systems and storage have been implemented in accordance with the registered PD. The project activity is completely operational and the same has been confirmed through the provided evidences including EPIAS records, TEIAS meter reading protocols, electricity meter test protocols and the photos of electricity meters.

Furthermore, for May 2023, to calculate the electricity generation values, apportioning has been done based on number of days and also cross-checked with daily SCADA records. Verification team re-produced the calculations and confirmed that all the calculations have been correctly applied.

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	<i>This is the third verification of the first crediting period.</i>

Double counting and participation under other GHG programs	Double counting issue has been assessed and the validation team has checked the ICR project database (Carbon Projects (carbonregistry.com)), GS project database (https://www.goldstandard.org/resources/impact-registry), GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects), BCR project database (Global CarbonTrace) and CerCarbano database (EcoRegistry) were checked and this project is not available within ICR, GS, GCC, BCR and CERCARBONO projects' databases, either. The project does not appear on VCS, GS, GCC, BCR and CERCARBONO registries, it could be confirmed that no other VER carbon credits are being issued for the project.
No double claiming with emissions trading programs or binding emission limits	N/A
No double claiming with other forms of environmental credit	N/A
Supply chain (scope 3) emissions double claiming	N/A
Sustainable development contributions	Project activity contributes to the diversification of energy mix of Turkey from fossil fuel to renewables; and avoids GHG emissions from Turkey grid system. The project activity contributes to SDG 7, SDG 8 and SDG 13 as follows: - SDG 7: 252,454.88 MWh/year - SDG 8: 26 employees - SDG 13: 134,610 tCO2e/year In summary, Re Carbon Ltd. confirms that the other benefits of the project activity have been stated correctly and supported by the relevant evidence documents.
Additional information relevant to the project	N/A

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	<i>Current stakeholders are in line with the project activity therefore no change is required. Re-carbon confirmed the appropriateness of stakeholders on site-visit inspections.</i>
Legal or customary tenure/access rights	<i>No expropriation activity occurs as confirmed on site-visit inspection.</i>
Stakeholder diversity and changes over time	<i>The situation about the stakeholders did not change during the project activity as confirmed through on-site visit interviews by Re-carbon.</i>
Expected changes in well-being	<i>Re-carbon confirms that project does not affect the well-being of the stakeholders negatively.</i>
Location of stakeholders	<i>Gülüşlü village represent the local stakeholders of the project.</i>
Location of resources	<i>Re-carbon confirms that the use of resources in the project activity does not affect the local stakeholders negatively.</i>

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	<i>The local stakeholders as stated in the Table 2-2 above were interviewed about the following issues and there had not been any complaint by the interviewed local stakeholders during the physical site visit:</i> <i>Noise due to the project activity</i> <i>Impact on the aquatic life where the project had been constructed</i> <i>Waste management practices implemented by PP</i>

	<i>It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local stakeholders during the on-site visit.</i> <i>There is also a signed and sealed letter from the mukhtar of the village dated 27/10/2023 indicating that local people has no complaint regarding the project.</i> <i>Therefore, it could also be concluded that there has not been any complaint during the monitoring period in line with the provided records, information by PP and interviews with some local stakeholders.</i>
Date(s) of stakeholder consultation	<i>An EIA not required decision was given to the project activity by the Ministry of Environment and Urbanism, therefore there was no need to local stakeholder consultation, but on-site visit the local stakeholders were interviewed about the following issues and there had not been any complaint by the interviewed local stakeholders during the physical site visit. Furthermore, local stakeholders interviewed on site-visit stated that the project owner comes to the village and asks about their feedback regularly.</i>
Communication of monitored results	<i>N/A (No negative feedback was received from the local stakeholders.)</i>
Consultation records	<i>The photographic evidence of the grievance book has been examined by the VVB, there was 1 aid request from the local stakeholders.</i>
Stakeholder input	<i>N/A (No negative feedback was received from the local stakeholders.)</i>

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	<i>The project land does not belong the lps or LCs, the project site is not a private land as confirmed through on-site visit by the verification team therefore no consent is required.</i>

Outcome of FPIC discussion	<i>N/A (The project land does not belong the Ips or LCs, the project site is not a private land as confirmed through on-site visit by the verification team therefore no consent is required.)</i>
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4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	<i>N/A (Re-carbon confirmed that no grievance has been received from the local stakeholders through on-site visit interviews, photographic evidences of the logbook and signed and sealed letter from the mukhtar.)</i>
Grievance redress procedure	<i>N/A (Re-carbon confirmed that no grievance has been received from the local stakeholders through on-site visit interviews, photographic evidences of the logbook and signed and sealed letter from the mukhtar.)</i>

4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
<i>N/A (Re-carbon confirmed that no grievance has been received from the local stakeholders through on-site visit interviews, photographic evidences of the logbook and signed and sealed letter from the mukhtar.)</i>	<i>N/A</i>	<i>N/A</i>

4.2.6 Risks to Local Stakeholders and the Environment

There had not been any observed significant environmental impact of the project activity as indicated in the registered PD and this was also confirmed through the reviewed documents.

The EIA Not Necessary Decision dated as 23/06/2008 by Adana Provincial Directorate of Environment and Forestry was also provided by the PP.

Hazardous wastes are collected by a contracted company and records dated 31/03/2022, 27/10/2022, 28/04/2022, 03/11/2022, 01/03/2023 and 25/04/2023 was provided by PP.

Water for domestic use is supplied by tankers to the site and wastewater is collected in septic tanks which is emptied regularly. The wastewater is discharged in accordance with Water Pollution Control regulations of the host country. Collection records are provided dated 08/12/2022, 10/09/2022, 15/05/2022, 24/02/2022, 19/07/2022, 30/01/2023, 15/05/2023, 22/03/2023, and 15/05/2023.

The waste oil is collected in impermeable containers and transferred to recycling centers in accordance with Hazardous Waste Control Regulations and Waste Oil Control Regulations. A photograph of the hazardous waste storage area is provided. Collection records are provided by PP dated 03/11/2022 and 26/10/2022. These records include collection of hazardous wastes generated at the site.

Solid waste is collected, and recyclables are separated to be sent to recycling centers. The rest is disposed to the nearest landfill site in coordination with Dereli District Municipality. The solid waste here also covers the E-Waste. Hence the disposal is realized in accordance with Regulation on Waste Management, Regulation on Electrical and Electronic Waste Control, and Regulation on Battery and Accumulator Wastes. Collection records are provided by PP dated 27/10/2022, 28/04/2022, 01/03/2023, and 28/03/2023.

Necessary precautions are taken for the species under conservation by international conventions, the field is regularly observed in terms of any change and irregularity of the biodiversity. Regular ecosystem reporting mechanism is applied for the field. A fish passage is constructed to ease up and down stream movements of the fish living in Çakır River.

Also VVB checked the fish passage and waste collection center on-site and it has been find suitable

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	<i>No risk has been identified through on-site visit interviews.</i>
Working conditions	<i>No risk has been identified through on-site visit interviews. Re-carbon confirms that employees are content with the working conditions.</i>
Safety of women and girls	<i>No risk has been identified through on-site visit interviews. Women employees from Aydem Tenilenebilir Enerji A.Ş. have been interviewed and they stated that they are content with the project owner.</i>

Safety of minority and marginalized groups, including children	<i>No risk has been identified through on-site visit interviews.</i>
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	<i>No risk has been identified through on-site visit interviews. Pollutants are collected in line with the regulations, therefore no action is needed.</i>

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	<i>No risk has been identified through on-site visit interviews. Re-carbon confirms that employees did not experience any discrimination or sexual harassment.</i>
Management experience	<i>No risk has been identified through on-site visit interviews.</i>
Gender equity in labor and work	<i>ILO Conventions 29 and 105 on Forced and Compulsory Labor have been ratified by Turkey. No risk has been identified through on-site visit interviews. Women and men employees from Aydem Tenilenebilir Enerji A.Ş. have been interviewed and they stated that they have no complaint or problem.</i>
Human trafficking, forced labor, and child labor	<i>ILO Conventions 100, 111, 122 and 142 have all been ratified by Turkey. No risk has been identified through on-site visit interviews. No forced labor, human trafficking or child labor has been observed in the project site.</i>

4.2.7.2 Human Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Human rights	<i>ILO Conventions 29 and 105 on Forced and Compulsory Labor, 100, 111, 122, 142, also 169 on Indigeneous and Tribal People have been ratified by Turkey. No risk has been identified through on-site visit interviews. Re-carbon confirms that project activity has no negative impact on human rights.</i>

4.2.7.3 Indigenous Peoples and Cultural Heritage

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	<i>N/A (The project land does not belong the Ips or LCs, the project site is not a private land as confirmed through on-site visit by the verification team therefore no consent is required.)</i>

4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	<i>N/A (The project has no expropriation activity in process. The land is not a private land.)</i>
Respect for property rights	<i>N/A (The project has no expropriation activity in process. The land is not a private land.)</i>

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
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Summary of the benefit sharing plan	<i>N/A (The project has no expropriation activity in process. The land is not a private land Therefore, Re-carbon confirmed that no benefit sharing plan is necessary.)</i>
Benefit sharing during the monitoring period	<i>N/A (The project has no expropriation activity in process. The land is not a private land Therefore, Re-carbon confirmed that no benefit sharing plan is necessary.)</i>

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	<i>No risk identified</i>
Soil degradation and soil erosion	<i>No risk identified</i>
Water consumption and stress	<i>No risk identified</i>
Usage of fertilizers	<i>No risk identified</i>

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	<i>The project activity has fish passage in line with the local regulations. In Turkey, fish passages are checked by DSI (Water State Works). Through on-site visit inspection and document review, Re-carbon Ltd. confirmed that project poses no danger to the rare, threatened, and endangered species.</i>

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	<i>N/A (No species were introduced by the project activity as confirmed through on-site visit inspection and interviews.)</i>

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A (There is no invasive species in the project activity as confirmed through on-site visit inspection and interviews.)

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	N/A

4.3 Accuracy of Reduction and Removal Calculations

EPIAS records are presented for all months of the monitoring period. All data in emission reductions table are checked with EPIAS records as the main source and crosschecked with TEIAS meter reading protocol records. The net electricity generated during the current monitoring period was as follows in Table 4-1 below:

Table 4-1: Net Electricity Generation

Period	Amount	Compliance Check
01/01/2022 – 31/12/2022	Export to Grid: 207,481.111 MWh Import from Grid: 68.686MWh Net electricity supplied to grid: 207,412.43 MWh	EPIAS Records
01/01/2023 – 16/05/2023	Export to Grid: 45,062.53 MWh Import from Grid: 20.079MWh Net electricity supplied to grid: 45,042.45 MWh	EPIAS Records
Total (01/01/2022 - 16/05/2023)	Export to Grid: 252,543.64 MWh Import from Grid: 88.77 MWh Net electricity supplied to grid: 252,454.88MWh	EPIAS Records

Emission factor and data and parameters available before validation are also applied in line with the registered PD and baseline excel sheet for validation.

According to the applied methodology ACM0002 version 16.0 and the registered PD, the GHG emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

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)

Since the project is a new run-of-river project which does not involve any reservoir, $PE_y=0$.

The leakage can be neglected in line with the applied methodology. Therefore, the emission reductions generated during the monitoring period are equal to baseline emissions.

The baseline emissions in the monitoring period are calculated using the following formula:

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

Where;

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

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

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system”(tCO₂ / MWh)

Since the project is a greenfield renewable power plant:

$EG_{PJ,y} = EG_{facility,y}$ =The amount of net electricity produced and fed into the grid by the project in year y .

Combined margin CO₂ emission factor ($EF_{grid,CM,y}$) is calculated once during the validation of the project activity and is valid throughout the first crediting period of 10 years.

It has been confirmed that the data used for emission reductions are correct. The grid emission factor taken is 0.53323 tCO₂ / MWh and the value is same as fixed ex-ante in the registered PD.

It is also confirmed that the methods and formulae used for calculating baseline emissions are in line with the relevant methodology and the registered PD. The net electricity generation is multiplied with the grid emission factor to arrive at the emission reductions value.

According to the registered PD, the estimated emission reduction for this monitoring period would be 180,466.07 tCO₂e corresponding to the monitoring period. However, the project in operation totally reached 134,610 tCO₂e in this period.

The vintage break-up of the emission reductions during the current monitoring period was as follows in Table 4-2 below:

Table 4-2: Emission Reductions

Period	Emission reductions (tCO ₂ e)
01/01/2022 – 31/12/2022	110,594
01/01/2023 – 16/05/2023	24,016

Period	Emission reductions (tCO ₂ e)
01/01/2022 – 16/05/2023	134,610

Calculations have been reproduced by VVB and the source data (EPIAS screenshots) are presented by PP as explained above.

Re Carbon Ltd. hereby confirms that the above mentioned electricity generation figures and GHG emission reduction calculations are presented and quantified correctly and are in accordance with the monitoring methodology ACM0002 version 16.0 and the monitoring plan given in the registered PD.

4.4 Quality of Evidence to Determine Reductions and Removals

The GHG emission reductions are a function of the net electricity generated and fed into the grid by the project activity and the combined margin emission factor which is determined during validation for the whole crediting period. According to the PD version 2.02 dated 20/04/2015, the combined margin emission factor had been validated and will remain the same for the first crediting period of 10 years as 0.53323 tCO₂/MWh.

The only parameter that needs to be closely verified is the net electricity generation and this value is taken from the monthly TEIAS meter reading protocol records which are along with the EPIAS records are the basis for billing and these records for each month has been submitted to and reviewed. They are recorded and saved automatically by the relevant government authority and there is no base for any option of material information.

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.

As a cross check means, TEIAS meter reading protocol records which include the monthly generation and consumption figures of the plant for every month have been reviewed by the verification team.

The electricity meter calibration and test details have been verified and the same is available in the Section 4.2 of the report.

Therefore, Re Carbon Ltd. hereby confirms that the evidence used to determine the GHG emission reductions are sufficient in quantity and appropriate in quality.

4.5 Non-Permanence Risk Analysis

N/A (The project is not an AFOLU project).

5 VERIFICATION OPINION

5.1 Verification Summary

Re Carbon Ltd. performed the 3rd verification of VCS “Toros Hydroelectric Power Plant”, a project with the registry reference number “VCS 1499” for the monitoring period in between 01/01/2022 and 16/05/2023. The scope of the activities covers the verification and certification of GHG emissions reductions, reported in the Monitoring Report Version 7, dated 10/07/2024 of “Toros Hydroelectric Power Plant”.

GTE Karbon Sürdürülebilir Enerji Eğitim Danışmanlık ve Ticaret A.Ş. was 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 PD. 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 6.

The verification was performed by a verification team consisting of “Öykü Yakupoğlu as the old Team Leader, Khalid MAHMOOD as the new Team Leader, İrem TAŞKIRAN as Validator/Verifier Trainee, Kader ALKAÇ as the Validator/Verifier Trainee, and Sandeep KANDA as the ITR” and the project activity was checked against the Verification criteria for projects and their GHG emission reductions set out in VCS Version 4.7, 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 VCS Organization, CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0. Team leader of the team has been changed on 31/07/2023 because Ms. Öykü YAKUPOĞLU was no longer an employee of Re-carbon Ltd. New members of the team are Mr. Khalid MAHMOOD as the Team Leader, İrem TAŞKIRAN as Validator/Verifier Trainee, and Kader ALKAÇ as the Validator/Verifier Trainee. Ms. İrem TAŞKIRAN and Mr. Khalid MAHMOOD have been conducted the physical site visit.

Re Carbon Ltd. hereby confirms that the project activity “Toros Hydroelectric Power Plant” in Turkey is implemented in accordance with the validated and registered PD version 2.02, dated 20/04/2015. Verification of the GHG statement was conducted in accordance the ISO 14064-3: 2019. The monitoring system is in place and the emission reductions were calculated without material misstatements as per the applied approved methodology “ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, Version 16.0.

5.2 Verification Conclusion

Verification period: From 01-01-2022 to 16-05-2023

Verified GHG emission reductions and carbon dioxide removals in the above verification period:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-Jan-2022 to 31-Dec-2022	110,594	0	0	110,594	0	110,594
01-Jan-2023 to 16-May-2023	24,016	0	0	24,016	0	24,016
Total	134,610	0	0	134,610	0	134,610

The non-permanence risk rating (%)	N/A
If applicable, the Long-term Average (LTA), whether it has been properly updated, and if it has been reached.	N/A
Whether a loss has been appropriately accounted for, in accordance with the VCS Program rules, if applicable.	N/A

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated	Achieved reductions/removals	Percent difference	Explanation for the difference
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reductions/ removals				
01-Jan-2022 to 31-Dec- 2022	127,655.26	110,594.00	13.4	The estimated electricity generation indicated in the generation license provides average values. Not minimum or maximum, moreover the fluctuations in hydro capacity of the reservoir and seasonal fluctuations can affect the actual electricity generations.
01-Jan-2023 to 16-May- 2023	52,810.81	24,016.00	54.5	The estimated electricity generation indicated in the generation license provides average values. Not minimum or maximum, moreover the fluctuations in hydro capacity of the reservoir and seasonal fluctuations can affect the actual electricity generations.
Total	180,466.07	134,610.00	25.4	The estimated electricity generation indicated in the generation license provides average values. Not minimum or maximum, moreover the fluctuations in hydro capacity of the reservoir and seasonal fluctuations can affect the actual electricity generations.

		
Khalida MAHMOOD	Sandeep KANDA	Havva ÖZTÜRK
Prepared by: Team Leader	ITR and Decision Maker	Accepted by: Certification Management Department
02/08/2024		

APPENDIX 1: COMMERCIALY SENSITIVE INFORMATION

<i>Section</i>	<i>Information</i>	<i>Justification</i>	<i>Assessment method and conclusion</i>
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

APPENDIX 2: 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 proponents' Response	Verification Team Conclusion
CAR-1 It is required to include all items in the box at the bottom of the cover page and all Sections text part using Arial or Century Gothic 10.5 pt, black, regular (non-italic) font.	1	Response-1: All items have been included in the box at the bottom of the cover page and all Sections text part has been indicated using Arial 10.5 pt, black, regular font. Response-2: All items have been included in the box at the bottom of the cover page and all Sections text part has been indicated using Arial 10.5 pt, black, regular font.	It is required to include all items in the box at the bottom of the cover page and all Sections text part using Arial or Century Gothic 10.5 pt, black, regular (non-italic) font. Review-2: OK, closed.(All items have been included in the box at the bottom of the cover page and all Sections text part has been indicated using Arial 10.5 pt, black, regular font.)”
CAR-2 The provided report ID according to the monitoring period number is not correct.	2.3	Response-1: The report ID has been corrected according to the monitoring period number.	OK, closed. (Report ID has been corrected.)
CAR-3 a) It is required to indicate the host country in paragraph one in section 1.1. b) It is required to demonstrate baseline emission values, project emission values, leakage emission values, emission reduction values for the whole current monitoring	1.1.1	Response-1: a) The host country has been indicated in paragraph one in section 1.1. b) The baseline emission values, project emission values, leakage emission values, emission reduction values for the whole current monitoring period has	a) Host country has been indicated but the name of the host country is inconsistent throughout the MR. b) An ER Excel Spreadsheet is provided but see below: - Row 24 is empty.

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
period in a monthly basis in the ER Calculation Excel sheet and apply the round- down function and revise the emission reduction value throughout the MR according to these changes. c) It is required to include the audit history of the project in the Tabular Format provided in VCR MR version 4.2. (First crediting period, previous monitoring periods) d) It is required to specify the project boundary and baseline scenario with the referring applied methodology. e) It is required to indicate the installed capacity with showing mechanical and electrical generation (MWm/MWe). f) It is required to indicate the start date of the project activity in section 1.1. g) It is required to explain why there are no electricity generation for March 2023, April 2023 and May 2023. h) It is required to correct the September 2022 electricity generation value and revise the emission reduction value throughout the MR. i) It is required to mention used technology in section 1.1.		been demonstrated in a monthly basis in the ER Calculation Excel sheet and the round- down function has been applied and the emission reduction value has been revised throughout the MR according to these changes. c) The audit history has been updated. d) The project boundary and baseline scenario has been specified with the referring applied methodology. e) The installed capacity has been indicated with showing mechanical and electrical generation (MWm/MWe). f) The start date of the project activity has been indicated in section 1.1. g) There are electricity generation for March 2023, April 2023, and May 2023. There is no internal consumption on these dates. h) The electricity generation value of September 2022 is already correct. i) The used technology has been mentioned in section 1.1. j) Present tense has been used. Response-2: a) Host country has been made consistent throughout the MR.	- Emission reduction values for every month of the monitoring period is not specified. c) OK, closed. (The audit history table has been updated.) d) The project boundary and baseline scenario has been specified but the reference link for the applied methodology is incorrect in terms of the methodology number. e) Installed capacity is not correct. f) OK, closed. (The start date of the project activity has been indicated in section 1.1.) g) OK, closed. (Necessary explanation has been made.) h) It is required to correct the September 2022 electricity generation value and revise the emission reduction value throughout the MR. i) OK, closed. (The used technology has been mentioned in section 1.1.)

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
j) It is required to use present tense since project is already constructed.		b)The row N24 has been indicated. Emission reduction values have been indicated on a monthly basis. d)The version of the applied methodology has been corrected as per the registered PD. e)Installed capacity has been corrected as per the generation license. h)The electricity generation of September 2022 has been corrected as per the EPIAS records provided, and the total electricity generation and the emission reduction values have been updated throughout the MR. Response-3: The version of the applied methodology has been made consistent throughout the MR.	j) OK, closed. (Present tense has been used. Review-2: a)OK, closed. (Host country has been made consistent throughout the MR.) b)OK, closed. (Necessary adjustments have been made.) d) Version of the applied methodology differs throughout the MR e)OK, closed. (Installed capacity has been corrected as per the generation license.) h)OK, closed. (September 2022 has been corrected.) Review-3: d)OK, closed. (Version of the applied methodology is now consistent.)
CAR-4 a) It is required to indicate the nearest village and the district of the project activity. b) It is required to indicate the screenshot of the KMZ document in section 1.7.	1.7.1	Response-1: a) The nearest village and the district of the project activity has been indicated. b) The screenshot of the KMZ document has been indicated in section 1.7.	a) OK, closed. (The nearest settlement to the project activity has been indicated.) b) OK, closed. (The screenshot of the KMZ document has been indicated in section 1.7.)

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
CAR-5 a) It is required to only indicate the tools that are applicable for this monitoring period according to the registered PD. b) It is required to indicate the reference links for applicable methodology and tools. c) It is required to use the latest versions of the applied tools.	1.8.1	Response-1: a) Only the tools that are applicable for this monitoring period has been indicated according to the registered PD. b) The reference links have been indicated for applicable methodology and tools. c) The latest versions of the applied tools have been used. Response-2: a) Can you please specify which tool is the unnecessary one?	a) An unnecessary tool has been identified. b) OK, closed. (The reference links have been indicated for applicable methodology and tools.) c) OK, closed. (Latest versions of the applied tools have been used.) Review-2: a) OK, closed. (Specified tools are acceptable.)
CAR-6 It is required to provide a signed and sealed letter on company letterhead that the project hasn't been registered or hasn't been seeking registration under any other GHG programs.	1.9.1	Response-1: A declaration letter has been provided.	OK, closed. (A declaration letter has been provided.)
CAR-7 It is required to provide the signed and sealed letter on company letterhead that project hasn't been included in an emissions trading program; or any other mechanism that includes GHG allowance trading.	1.10.1	Response-1: A declaration letter has been provided.	OK, closed. (A deceleration letter has been provided.)
CAR-8	1.11.1	Response-1:	a) Each SDG contribution has been indicated in the ER

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
a) It is required to indicate each SDG contribution in the ER Calculation Excel spreadsheet as well. b) It is required to correct the number of the employee according to the on-site visit.		a) Each SDG contribution has been indicated in the ER Calculation Excel spreadsheet as well. b) The number of the employee has been indicated according to the on-site visit. Response-2: a)The SDG values have been corrected. The value in Table 10 has been corrected. Response-3: a)The emission reduction and electricity generation values have been made consistent with excel and each other.	Calculation Excel spreadsheet but SDG 13 and SDG 7 values are not correct. Also, in table 10, net electricity supplied to the grid value is incorrect. b) OK, closed. (The number of the employee has been updated according to the on-site visit. Review-2: a) Emission reduction and electricity generation values differ throughout the MR. Review-3: a) OK, closed. (The emission reduction and electricity generation values have been made consistent with excel and each other.)
CAR-9 a) It is required to provide the solid waste records and indicate the record dates in section 2.1. b) It is required to provide the evidence document for Biodiversity	2.1.1	Response-1: a) During this monitoring period, there was no solid waste disposal. Latest record belongs to December 2021. b) The evidence document (fish passage) for Biodiversity will be	a) OK, closed. (Necessary explanation has been made.) b) It is required to provide the evidence document for Biodiversity and indicate the date of the document

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
and indicate the date of the document in section 2.1. c) It is required to include the precautions taken for the possible negative environmental and socio-economic impacts of the project activity. d) It is required to correct the waste oil record dates in section 1.2.		provided when received from the client, and will be indicated in section 2.1. c) The precautions taken for the possible negative environmental and socio-economic impacts of the project activity have been indicated in section 2.1. d) The waste oil record dates have been corrected in section 1.2. Response-2: b)The documents for biodiversity have been provided. d)The dates of the waste oil records have been corrected as per the documents. Response-3: d)The dates of the waste records have been corrected. Response-4: The mentioned waste record has been evaluated as well.	in section 2.1 when it is published. c) OK, closed. (The precautions taken for the possible negative environmental and socio-economic impacts of the project activity have been included.) d) It is required to correct the waste oil record dates in section 1.2. Review-2: b)OK, closed. (Fish passage evidence documents have been provided.) d)All the indicated dates for waste oil collection does not belong to waste oil. Review-3: There is also a waste oil collection invoice dated 26/10/2022. This should be evaluated. Review-4: d) OK, closed. (Date has been inserted.)
CAR-10 a) It is required to provide the procedures or methods used for	2.2.1	Response-1: a) The procedures or methods used for documenting the outcomes of	a) There is a grievance box in mukhtars' office and on 15/09/2021 there was a

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
documenting the outcomes of the local stakeholder communication in the Section 2.2. b) It is required to briefly describe the mechanism for on-going communication with local stakeholders. c) It is required to provide a signed and sealed letter from mukhtar that there are no complaints about the project activity. d) It is needed to indicate if there are any negative comments. e) It is required to provide the photographic evidence of logbook.		the local stakeholder communication has been provided in the section 2.2 (complaint box). b) The mechanism for on-going communication with local stakeholders has been briefly described. c) A signed and sealed letter from mukhtar that there are no complaints about the project activity has been provided. d) There are no negative comments. e) The photographic evidence of complaint box has been provided. Response-2: a) Since this is the 3rd monitoring period, which is between 01/01/2022 and 16/05/2023, this situation may not be evaluated.	demand from the village people. Indication if this demand has been met by the project owner is necessary. b) OK, closed. (Every month the PP consults with local stakeholders at the box locations and discuss their grievances as well as positive comments.) c) OK, closed. (A signed and sealed letter from mukhtar that there are no complaints about the project activity has been provided.) d) OK, closed. (During the monitoring period there were no complaints about the project received in the complaint box.) e) OK, closed. (The photographic evidence of complaint box has been provided.) Review-2: a) OK, closed. (Explanation has been made.)
CAR-11	3.1.1	Response-1:	a) OK, closed. (Meter details have been indicated in

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
a) It is required to indicate meter details in tabular format in section 3.1. (Brand, serial no, calibration date, meter change date, first index date) b) It is required to briefly describe turbine and generator technology. c) It is required to provide the reference of name change.		a) The meter details have been indicated in tabular format in section 3.1. b) The turbine and generator technology have been briefly described. c) The name change references have been provided. Response-2: c)The date has been corrected as per the provided document.	- tabular format in Section 3.1.) b) OK, closed. (The turbine and generator technology have been briefly described.) c) Date of the name change is not correct. Review-2: c)OK, closed. (Date of name change is the same with the official gazette publication date.)
CAR-12 It is required to provide reference of name change.	3.2.2.1	Response-1: The reference of name change has been provided. Response-2: A footnote has been included.	A footnote for the name change is necessary to provide. Review-2: OK, closed. (A footnote has been included.)
CAR-13 a) It is required to correct the name of the second parameter according to the registered PD. b) The format of chapter 4 heading needs to be changed as per requirements of VCS MR Template Version 4.2. c) It is required to correct the unit of EFCO2,i,y parameter according to the registered PD.	4.1.1	Response-1: a) The name of the second parameter has been corrected according to the registered PD. b) The format of chapter 4 heading is correct as per requirements of VCS MR Template Version 4.2. Can you please specify? c) The unit of EFCO2,i,y parameter has been corrected according to the registered PD.	a) OK, closed. (The name of the second parameter has been corrected according to the registered PD. b) OK, closed. (The format of chapter 4 heading is correct.) c) OK, closed. (The unit of EFCO2,i,y parameter has been corrected according to the registered PD.)

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
d) It is required to update the version of tool 07.		d) The version of tool 07.0 has been updated.	d) OK, closed. (The version of tool 07.0 has been updated.)
CAR-14 a) It is required to indicate the main and cross-check source for EGy parameter. b) It is required to revise electricity generation and emission reduction value according to correction in ER Excel Sheet. c) It is required to indicate references for used regulations. d) It is required to indicate the old meter details for EGy parameter. e) It is required to indicate, provide the meter test dates for EGy parameter. f) It is required to indicate the calibration details for old meters in the table for EGy parameter. g) It is required to correct the value of APj according to the registered PD.	4.2.1	Response-1: a) The main and cross-check source for EGy parameter has been indicated. b) The electricity generation and emission reduction values have been revised (there is no correction made since the value in September 2023 was already correct). c) The references for used regulations have been indicated. d) The old meter details have been indicated for EGy parameter. e) The meter test dates have been indicated and provided for EGy parameter. f) The calibration details for old meters have been indicated in the table for EGy parameter. g) The value of APj parameter has been corrected according to the registered PD. Response-2: b) The electricity generation and emission reduction values have been updated	a) OK, closed. (The main and cross-check source for EGy parameter has been indicated.) b) It is required to revise electricity generation and emission reduction value according to correction in ER Excel Sheet. c) It is required to indicate references for used regulations. d) The old meter details have been indicated for EGy parameter but brand of the old meters is incorrect. e) OK, closed. (Meter test dates for EGy parameters have been provided.) f) OK, closed. (The calibration details for old meters have been indicated in the table for EGy parameter.) g) OK, closed. (The value of APj parameter has been corrected according to the registered PD.)

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
		throughout the MR according to the updated ER. c) The references for used regulations have been indicated. d)The brand of the old meters are correct according to the provided meter change documents. Response-3: d)The brands of the old meters have been corrected.	Review-2: b)OK, closed. (ER has been corrected.) c) OK, closed. (The references for used regulations have been indicated.) d)The brands of the old meters are incorrect. Review-3: d)OK, closed. (Brand of the old meters have been corrected.)
CAR-15 a) It is required to indicate the reference links for used regulations in section 4.3. b) It is required to indicate the single line diagram of the project activity. c) It is required to indicate the data recording of the project activity.	4.3.1	Response-1: a) The reference links for used regulations have been indicated in section 4.3. b) The single line diagram of the project activity has been indicated. c) The data recording of the project activity has been indicated.	a) OK, closed. (The reference links for used regulations have been indicated in section 4.3.) b) OK, closed. (The single line diagram of the project activity has been indicated.) c) OK, closed. (All data collected as part of monitoring is archived electronically and kept at least for 2 years after the end of the last crediting period.)
CAR-16	5.2.1	Response-1:	a) OK, closed. (PE are considered zero.)

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
a) It is required to indicate the value of the project emission in Section 5.2. b) It is required to indicate the equation 3 in applied methodology.		a) The value of the project emission has been indicated in section 5.2. b) The equation 3 in applied methodology has been indicated. Response 2: The version of the applied methodology is 16. The inconsistency has been clarified. The Section 5.2 has been revised as per the ACM0002 v16.	b) OK, closed. (The equation 3 in applied methodology has been indicated.) c) Version of the applied methodology differs throughout the MR. The "most recent version of ACM0002" statement should have been corrected since the latest version of the applied methodology has not been used. Statement from applied methodology "For most renewable energy project activities, PEy = 0" is not the same sentence with what is written in the applied methodology version 16. Review-2: c)OK, closed. (Version of the methodology and the statement have been corrected.)
CAR-17 The MR template version 4.2 has been used, whereas version 4.3 is the latest MR template available. Please clarify.	ITR	Response-1: MR version has been updated with the version 4.3. Response-2: a) The version has been checked and updated correctly according to the	Review-1: a) Version has been updated but contents of the report does not match with VCS Monitoring Report Template version 4.3. Please check the VCS Monitoring Report Template version 4.3. and

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
		VCS Monitoring Report template v4.3. b) As is controlled from the VCS Monitoring Report template v4.3, there is no row including crediting period in the cover page; therefore, the crediting period dates have been indicated in sections where requested (e.g. 1.7 Project Crediting Period) c) Version and date of the MR have been revised correctly. Response-3: c)Version and the date of MR has been revised.	correct all sections, title names, missing sections, tables accordingly. b) Crediting period row is missing in MR cover page even though it is available in VCS MR template. c) Version and date of the MR needs revision. Review-2: a) OK, closed. (Revised) b) OK, closed. (Revised.) c) Version and date of the MR needs update. Review-3: c)OK, closed. (Revised.)
CAR-18 The old meter details may be removed from the MR as they are not relevant for the covered monitoring period.	ITR	Response-1: The old meter details have been removed from the MR as requested.	Review-1: OK, closed. (Removed.)
CAR-19 The grid emission factor has not been cited in section 4.1 of the MR. Also, as the grid emission factor is fixed ex-ante the associated parameters used in the PDD need not be cited therein.	ITR	Response-1: Citations have been provided correctly.	Review-1: OK, closed. (Revised.)
CAR-20 As the grid emission factor has been fixed ex-ante the same is to be clearly cited in section	ITR	Response-1: The grid emission factor has been written with all decimals when it is necessary.	Review-1:

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
4.1 of the MR too. Also, the decimal numbers are to be cited consistently too as 0.53323		Response-2: The decimal numbers are corrected and cited consistently as 0.53323.	Not closed. the decimal numbers are to be cited consistently too as 0.53323. Review-2: OK, closed. (Corrected.)
CAR-21 The MR is to be checked and corrected for the crediting period cited as renewable twice, noting that the Verra registry states that "CREDITING PERIOD HAS EXPIRED, 17/05/2013 - 16/05/2023".	ITR	Response-1: This MR has been prepared for the first crediting period 3 rd verification. Thus, the crediting period in the MR has been indicated correctly. A revalidation process is ongoing. When completed, the registry will be updated for the new crediting period.	Review-1: OK, closed. (Explanation has been made.)
CAR-22 a) The tables in section 2.1.3, 2.1.4, 2.1.5., and so on, are empty. VCS MR template 4.3 indicates explanations to fill out the tables. They should be taken into consideration when filling out the MR. Tables should not be left empty. They need to be filled out briefly even if the procedure is not applicable. b) VCS MR template 4.3. states that "Where no risk was identified, write "No risk identified" in the first column, and provide justification in the second column". For section 2.2., 2.4 etc.	ITR	Response: a) The tables in the sections mentioned have been filled out based on the VCS MR template 4.3. b) Required justifications have been provided for the columns where "no risk identified" is written. c) Section 5.4 has been checked properly and updated if necessary. d) Rows mentions have been filled out appropriately. e) As requested, Table in Section 5.4 has been corrected based upon the comments. f) Appendix section has been checked and corrected where necessary.	Review-1: a) OK, closed. (Tables have been filled out.) b) OK, closed. (Revised.) c) OK, closed. (Revised.) d) OK, closed. (Revised.) e) OK, closed. (Revised.) f) OK, closed. (Revised.)

Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project proponents' Response	Verification Team Conclusion
c) Section 5.4. of the VCS MR template 4.3. provides two table “For projects required to assess permanence risk”. If this is not applicable, second table is to be deleted for better visualization of the document and first table is to be filled out with brief justifications and statements. d) Overall, any row should not be left empty. They have to be filled out even the statement is not applicable. Rows need to be filled out with statements such as ““N/A”, “O” or brief justifications or explanations. e) This project is an emission reduction project and not removal. Table in section 5.4. has to be checked. f) In the last page of MR, there is a heading “Appendix X: <Title of appendix> If there is no appendix to be provided, this is unnecessary			

APPENDIX 3: VERIFICATION TEAM AND ITR COMPETENCE

Ms. Kader Alkaç holds a B.Sc. degree in “Environmental Engineering” from Hacettepe University / Ankara. With re-carbon, Kader is an internal Validator/Verifier Trainee for Project-Level Group 1 - GHG Project Type: Renewable Energy Production and a Regional Expert for Türkiye.

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.

Appendix 2-1: 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

Ms. Kader Alkaç

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)	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	Trainee	Trainee			26.02.204
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	16.1					
5	Agricultural carbon emission reduction	15.1					
6	Capture & destruction of landfill gas	19.1					
6	Capture & use of landfill gas	19.1					
6	Avoidance of methane production in wastewater treatment	19.1					
SDS Criteria:							26.02.2024



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE (reference only)	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	1.2	Trainee	Trainee			26.02.204
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	16.1					
5	Agricultural carbon emission reduction	15.1					
6	Capture & destruction of landfill gas	19.1					
6	Capture & use of landfill gas	19.1					
6	Avoidance of methane production in wastewater treatment	19.1					
SDS Criteria:							26.02.2024

COUNTRY EXPERTISE:

Türkiye for all above listed GHGRSS

F1	15.03.2024	15.03.2024		15.03.2024
S1	15.03.2024	15.03.2024		15.03.2024
S0104	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.

[Signature]

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 GHG TECHNICAL AREA EXPERTISE (reference only)	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	06.02.2022	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	06.02.2022	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	13.2	08.02.2022	08.02.2022	06.02.2022	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	13.2	08.02.2022	08.02.2022	06.02.2022	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	16.1	08.02.2022	08.02.2022	06.02.2022	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	15.1	08.02.2022	08.02.2022	06.02.2022	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	19.1	08.02.2022	08.02.2022	06.02.2022	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	19.1	08.02.2022	08.02.2022	06.02.2022	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	13.1	08.02.2022	08.02.2022	06.02.2022	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	06.02.2022	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 GHG TECHNICAL AREA EXPERTISE (reference only)	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Methane Collection & destruction	13.2	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Livestock & other anaerobic digester operations	13.2	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Agricultural methane emission reduction	16.1	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Agricultural carbon emission reduction	15.1	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
6	Capture & destruction of landfill gas	19.1	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
6	Capture & use of landfill gas	19.1	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
6	Avoidance of methane production in wastewater treatment	13.1	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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
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	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022

COUNTRY EXPERTISE:

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

F4	Trainee	Trainee	Trainee	Trainee	Trainee
S1	Trainee	Trainee	Trainee	Trainee	Trainee
COBIA	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.

[Signature]
Christian Johannes
(General Manager)

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 reference only	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	2.2	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023					
1	Energy Efficiency Improvements	3.1															
5	Methane Collection & destruction	23.2															
5	Livestock & other anaerobic digester operations	23.2															
5	Agricultural methane emission reduction	26.1															
5	Agricultural carbon emission reduction	25.1															
6	Capture & destruction of landfill gas	19.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023					
6	Capture & use of landfill gas	23.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023					
6	Avoidance of methane production in wastewater treatment	23.1	18.07.2023	18.07.2023	18.07.2023	Trainee	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					



PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT GHG TECHNICAL AREA EXPERTISE reference only	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	2.2	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023
1	Energy Efficiency Improvements	3.1															
5	Methane Collection & destruction	23.2															
5	Livestock & other anaerobic digester operations	23.2															
5	Agricultural methane emission reduction	26.1															
5	Agricultural carbon emission reduction	25.2															
6	Capture & destruction of landfill gas	19.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023
6	Capture & use of landfill gas	23.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023
6	Avoidance of methane production in wastewater treatment	23.1	18.07.2023	18.07.2023	18.07.2023	Trainee	18.07.2023	18.07.2023	18.07.2023	18.07.2023	Trainee	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

COUNTRY EXPERTISE:

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

F4	15.03.2024	15.03.2024	15.03.2024	15.03.2024
S1	15.03.2024	15.03.2024	15.03.2024	15.03.2024
QIRIA	15.03.2024	15.03.2024	15.03.2024	15.03.2024

re-carbon
quality in carbon auditing

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

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Ms. İrem Taşkiran

PROJECT LEVEL GROUP	GHG PROJECT TYPE EXPERTISE	ANALYST FORM FORMAL ANALYST/EXPERT TECHNICAL ENG	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	
1	Renewable Energy Production	2.2	23.10.2023	23.10.2023	11.12.2023		08.11.2022	23.10.2023	23.10.2023	11.12.2023		08.11.2022						08.11.2022
1	Energy Efficiency Improvements	3.2	Trainee	Trainee	Trainee		Trainee	Trainee	Trainee	Trainee		Trainee						
5	Methane Collection & destruction	23.2																
5	Livestock & other anaerobic digester operations	23.2																
5	Agricultural methane emission reduction	25.1																
5	Agricultural carbon emission reduction	25.1																
6	Capture & destruction of landfill gas	23.1																
6	Capture & use of landfill gas	23.1																
6	Avoidance of methane production in wastewater treatment	23.1																
		SOS Criteria:	23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023		08.11.2022						09.11.2022



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Project Level Group	GHG Project Type / Expertise	FORNIGHT 10M TECHNOLOGICAL AREA EXPERTISE (reference only)	Verifier	Validator	Team Leader	ITR	Expert	Verifier	Validator	Team Leader	ITR	Expert	Verifier	Validator	Team Leader	ITR	Expert
1	Renewable Energy Production	2.2	23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023		09.11.2022
1	Energy Efficiency Improvements	2.1	Trainee	Trainee	Trainee		Trainee	Trainee	Trainee	Trainee		Trainee	Trainee	Trainee	Trainee		Trainee
5	Methane Collection & Destruction	23.2															
5	Livestock & other anaerobic digester operations	23.2															
5	Agricultural methane emission reduction	25.1															
5	Agricultural carbon emission reduction	25.2															
6	Capture & destruction of landfill gas	23.1															
6	Capture & use of landfill gas	23.1															
6	Avoidance of methane production in wastewater treatment	23.1															
	SDS Criteria:		23.10.2023	23.10.2025	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023		09.11.2022	23.10.2023	23.10.2023	11.12.2023		09.11.2022

Türkiye for all above listed GHGRSSs

F1	15.03.2024	15.03.2024	15.03.2024		15.03.2024
S1	15.03.2024	15.03.2024	15.03.2024		15.03.2024
DOISA	15.03.2024	15.03.2024	15.03.2024		15.03.2024