BOYABAT HYDROELECTRIC POWER PLANT
2ND VERIFICATION REPORT

Report Prepared By: Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti.

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Prepared By	Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti.
Contact	Address: Prof. Dr. Aziz Sancar Cad. No: 27/6 06690 Çankaya/Ankara/TURKEY Tel.: 0090-312-287 51 22 Fax: 0090-312-287 33 73 email: info@re-carbon.net

	Website: www.re-carbon.net	
Approved By	Mr. Sandeep KANDA Technical Reviewer	Ms. Esin TUNALI Certification Manager
		
Work Carried Out By	**Verification Team Leader**	**Verification Team Members**
	Mr. Anıl SÖYLER	N/A

Summary:

The project includes the installation of a dam and hydroelectric power plant (HEPP) with an installed capacity of 528 MWm / 513 MWe on Kızılırmak River in Sinop city of Turkey. The purpose of the project activity is to generate electricity and supply it into the public 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 and it includes the installation of three vertical axis Francis turbines each having installed capacity of 176 MWm / 171 MWe.

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 01 and dated 24/07/2014.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, approved consolidated baseline and monitoring Methodology "ACM0002: "Grid-connected Electricity Generation from Renewable Sources" version 14.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the CDM Validation and Verification Standard version 03.0, CDM Project Standard version 03.0, CDM Project Cycle Procedure version 03.0 and VCS version 4.1.

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

During this verification 23 Corrective Action Requests (CARs) and 02 Clarification Requests (CLs) were raised all of which were resolved by either revising the Monitoring Report or by sending objective evidence to the verification team. There hasn't been any Forward Action Request (FAR) issued during the verification.

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.

Re Carbon Ltd. also confirms the following based on the results of document review for the period between 01 August 2014 and 30 April 2020:

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
2014	262,170	46,080	0	216,089
2015	472,909	83,556	0	389,352
2016	422,319	74,467	0	347,851
2017	298,727	52,828	0	245,899
2018	238,853	42,315	0	196,537
2019	332,597	58,625	0	273,972
2020	14,294	2,645	0	11,649
Total	**2,041,869**	**360,517**	**0**	**1,681,349**

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1 INTRODUCTION

1.1 Objective

Re Carbon Ltd. has been appointed by “Boyabat Elektrik Üretim ve Ticaret A.Ş.” to perform the second verification of the “Boyabat Hydroelectric Power Plant” with the service agreement dated 16/07/2021. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report version 06 dated 18/04/2022 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 01 and dated 24/07/2014.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, ACM0002: “Grid-connected Electricity Generation from Renewable Sources” version 14.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the according to the guidance given in the CDM Validation and Verification Standard version 03.0, CDM Project Standard version 03.0, CDM Project Cycle Procedure version 03.0 and VCS version 4.1.

The only purpose of the verification and certification is its usage during the issuance process as part of the VCS project cycle. Therefore, Re Carbon Ltd. can’t 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 assurrance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

1.4 Summary Description of the Project

Boyabat Hydroelectric Power Plant has been located on Kızılırmak River in Sinop city of Turkey and developed by Boyabat Elektrik Üretim ve Ticaret A.Ş. The project has three vertical axis Francis turbines each having installed capacity of 176 MWm / 171 MWe, so it has a total capacity of 528 MWm / 513 MWe in line with the electricity generation licence and provisional

acceptance protocol and the project also supports the sustainable economic development in the region.

The key parameters about the technical design of the project are listed below in Table-1:

Table 1: Technical specifications of the project

Component	Property
Turbine type	Francis vertical axis (Three turbines)
Turbine firm	Andritz Hydro (Three turbines)
Rotation	187.5 r / min
Production year	2012
Average flow rate	153.25 m^3 / s
Number of turbines	3
Serial numbers of the turbines	BOY 10-01 & BOY 10-02 & BOY 10-03
Installed capacity of each turbine	171 MWe

The start date of the project activity is 29/11/2012 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 29th November 2012 until 28th November 2022 with two times renewable crediting period of 10 years.

2 VERIFICATION PROCESS

The relevant details with regards to the verification process are available in the following sub sections.

2.1 Method and Criteria

Re Carbon Ltd. has been appointed by “Boyabat Elektrik Üretim ve Ticaret A.Ş.” to perform the second verification of the “Boyabat Hydroelectric Power Plant” with the service agreement dated 16/07/2021. The objective of this verification activity is to assess, with objective evidence:

- if the monitoring report version 06 dated 18/04/2022 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 01 and dated 24/07/2014.

The project activity and the monitoring report are assessed against the requirements of the Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, ACM0002: "Grid-connected Electricity Generation from Renewable Sources" version 14.0, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, according to the guidance given in the according to the guidance given in the CDM Validation and Verification Standard version 03.0, CDM Project Standard version 03.0, CDM Project Cycle Procedure version 03.0 and VCS version 4.1.

There hasn't been any sampling approach applied during the verification and all monitored data/parameters have been checked by the verification team.

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

2.2 Document Review

The basis for the verification activity is the monitoring report version 01 dated 01/08/2021 which was submitted to the verification team on 17/08/2021. This monitoring report was revised due to the issued CARs and CLs, version 06 dated 18/04/2022 being the final version. The monitoring report and the monitoring activities were assessed against the registered PD version 01 and dated 24/07/2014, ACM0002: "Grid-connected Electricity Generation from Renewable Sources" version 14.0, the relevant CDM and VCS rules and regulations including CDM Validation and Verification Standard version 03.0, CDM Project Standard version 03.0, CDM Project Cycle Procedure version 03.0 and VCS version 4.1, the final validation report version 01 dated 24/07/2014 and the final initial verification report version 01 dated 04/09/2014.

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 validation period is given in the Table 2-1 below:

Table 2-1: List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D01	Registered PD	01	24/07/2014
D02	Final Validation Report	01	24/07/2014
D03	Final Initial Verification Report	01	04/09/2014
D04	ACM0002: Grid-connected Electricity Generation from Renewable Sources	14.0	-
D05	Verification Service Agreement	-	16/07/2021
D06	Monitoring Report	01	01/08/2021
D07	Monitoring Report	02	03/11/2021
D08	Monitoring Report	03	20/12/2021
D09	ER Calculation Excel Sheet	01	01/08/2021
D10	ER Calculation Excel Sheet	02	03/11/2021
D11	ER Calculation Excel Sheet	03	20/12/2021
D12	CDM Validation and Verification Standard For Project Activities	3.0	07/10/2021
D13	CDM Project Standard For Project Activities	3.0	07/10/2021
D14	CDM Project Cycle Procedure For Project Activities	3.0	07/10/2021
D15	VCS Standard	4.1	19/09/2019
D16	VCS Program Guide	4.0	19/09/2019
D17	Electricity Generation Licence (Last Amendment)	-	24/10/2019
D18	TEIAS Monthly Reading Protocols	-	08/2014-04/2020
D19	EPIAS Screnshoots		08/2014-04/2020
D20	Meters Test Reports	-	03/12/2012 14/11/2016 17/07/2018 17/09/2020 11/03/2021
D21	Electricity Meters' Photos	-	-
D22	Power Plant Coordinates	-	-
D23	Waste Water Storage Tank Photos	-	-

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D24	Waste Water Transfer and Disposal Records	-	23/06/2014 03/12/2015 27/01/2016 24/05/2019 05/03/2020 04/08/2020 12/03/2021
D25	Hazardous Waste Storage Area Photos	-	-
D26	Hazardous Waste Declaration Forms to Ministry of Environment and Urbanization	-	2015 2016 2017 2018 2019 2020
D27	Domestic Waste Storage Photographic Evidences	-	-
D28	Signed Letter by the Beybükü Village Head (Mukhtar) (About the Contact Details of PP Relevant Staff In case of Any Complaint)	-	05/01/2021
D29	Feasibility Report	-	07/2007
D30	Letter by the PP (About Double Counting and Renewable Energy Certification (REC))	-	01/11/2021
D31	Turbines' Nameplates	-	-
D32	Provisional Acceptance Protocol	-	29/11/2012
D33	EIA Positive Decision	-	11/03/2008
D34	Single Line Diagram	-	04/09/2012
D35	Noise Assessment Report	-	08/2016
D36	Social Security Rords for PP Site Employees	-	-
D37	Training Records	-	21/04/2014 25/06/2015 13/12/2016 13/09/2017 27/02/2018 21/02/2019 19/10/2020
D38	Site Photos	-	14/09/2021

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D39	Monitoring Report	04	13/01/2022
D40	ER Calculation Excel Sheet	04	13/01/2022
D41	Monitoring Report	05	07/04/2022
D42	Monitoring Report	06	18/04/2022

2.3 Interviews

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

The list of people who were interviewed during the online (remote) verification site visit handled on 14/09/2021 and through MS Teams program is given in the Table 2-2 below:

Table 2-2: List of persons interviewed

Reference Number	Means of Interview[1]	Full Name	Title	Organization
I01	SV	Emre Terzi	Plant Manager	Boyabat Elektrik Üretim ve Ticaret A.Ş.
I02	SV	Fatih Gençbay	Plant Maintenance Engineer	Boyabat Elektrik Üretim ve Ticaret A.Ş.
I03	SV	Suat Odaman	Planning Manager	Boyabat Elektrik Üretim ve Ticaret A.Ş.
I04	SV	Çağla Balcı Eriş	Carbon Consultant	Rüzgar Danışmanlık Ltd. Şti.
I05	SV	Remzi Yaman	Village Head (Mukhtar)	Beybükü Village
I06	SV	Faruk Güngör	Villager	Beybükü Village
I07	SV	Kadriye Akça	Villager	Beybükü Village
I08	SV	Şefika Gökçe	Villager	Beybükü Village

2.4 Site Inspections

As a part of the verification activities, an online (remote) site visit was performed to the project activity site on 14/09/2021 and through MS Teams program, details of which can be seen in the Table 2-3 below:

Table 2-3: Online site visit details

[1] SV: Online site visit; T: Telephone; E: E-mail

Points Verified	Source of Information
Implementation and operation of the proposed VCS project activity as per the registered PD	Document review, site visit and interviews with the PP representatives and local stakeholders from Beybükü Village
Review of information flows for generating, aggregating and reporting the monitoring parameters	Document review, site visit and interviews with the PP representatives and local stakeholders from Beybükü Village
Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD	Interviews with the PP representatives and local stakeholders from Beybükü Village
Cross-check between information provided in the monitoring report and data from other sources such as plant log books, inventories, purchase records or similar data sources	Document review and site visit
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD and the selected methodology	Document review, site visit and interviews with the PP representatives and local stakeholders from Beybükü Village
Review of calculations and assumptions made in determining the GHG data and emission reductions	Document review
Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Document review and interviews with the PP representatives and local stakeholders from Beybükü Village

The project owner representatives and local stakeholders had been interviewed as in above during the online (remote) site visit using MS Teams program and some photographic evidences like electricity meters, waste storage areas etc. have been taken along with the document review process to achieve the reasonable level of assurance during the verification as detailed in other sections of the report.

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 version 01 and dated 24/07/2014
- Assessment of the compliance of the monitoring plan with the relevant methodology ACM0002: “Grid-connected Electricity Generation from Renewable Sources” version 14.0
- Assessment of the compliance of monitoring with the monitoring plan
- Assessment of data and calculation of greenhouse gas emission reduction
- 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 Annex-1 of this verification report.

The Verification Protocol consists of two tables:

- Table 1 (Monitoring Report and VCS verification requirements) and
- Table 2 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in Verification Protocol is explained in Table 2-4 below:

Table 2-4: Explanation about Table-1 in Verification Protocol

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

The usage description of Table-2 in Verification Protocol is explained in Table 2-5 below:

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

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

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

During the verification period, a Verification Protocol which is attached in Annex 1 to this verification report was used to submit the findings to the project participants.

In line with Re Carbon Ltd. internal terminology and VCS version 4.1, the team reports the non-conformities in the 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 are 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 participants.
- The verification team raises a CL if information is insufficient or not transparent 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 if the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles total of 23 CARs and 02 CLs were issued all of which are listed in the Verification Protocol. There hasn't been any FAR issued during the verification.

The appointment process of the verification team takes into account 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 Independent Technical Reviewer (ITR), respectively. The verification team and ITR are assigned to this verification activity on 14/05/2021 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	Involvement*
Anıl Söyler	Team Leader	☒	☒	☒	A, DR, SV, R
Sandeep Kanda	ITR	☒	☒	☒	ITR

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

A : Administrative
DR : Desk Review
SV : Online Site Visit
R : Reporting
ITR : Independent Technical Review

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

The Independent Technical Review is performed by another Team Leader who hasn't involved in the verification activities of this project activity. When the Team Leader finalizes the Verification Report, the report is sent to Independent Technical Reviewer, at this stage not only the report but all the supporting documents like emission factor calculations and relevant excel sheets etc. are reviewed.

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

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

2.5.1 Forward Action Requests

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

According to these principles, there hasn't been any FAR issued during the verification.

2.6 Eligibility for Validation Activities

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

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project does not participate under any emission trading program and other GHG Programs including renewable energy certificates (RECs) and this is also confirmed by the PP through the signed and sealed letter by PP dated as 01/11/2021.

3.2 Methodology Deviations

N/A (There haven't been any methodology deviations applied).

3.3 Project Description Deviations

There haven't been any change on project's design and characteristics. However, the other entity involved in the project as carbon consultant was Ekobil Environmental Services and Consulting Ltd. in the project description and it's been changed as Rüzgar Danışmanlık Ltd. Şti. at the time of this verification process as indicated in the monitoring report.
Re Carbon Ltd. hereby confirms that the change in the other entity involved in the project as carbon consultant has no impact on the project to be in compliance with the VCS rules and requirements and has no impact on the applicability of the methodology, additionality and the appropriateness of the baseline scenario.

Secondly, all data in emission reductions table are checked with EPİAŞ records as the main source and crosschecked with TEAIS meter reading protocol (OSOS) records. The main source of data has been defined as PMUM records during the initial monitoring period but PMUM has been replaced by EPIAS system as of 01/09/2015 in Turkey as confirmed by the local knowledge of the verification team and Re Carbon Ltd. hereby confirms that this change has no impact on the applicability of the methodology, additionality and the appropriateness of the baseline scenario.

Finally, $EGPP\text{-}_{selfconsumptionTEDAŞ,y}$ parameter hasn't been monitored seperately in this monitoring period because this consumption is measured along with currently available three main and three back-up meters instead of the electricity meter with serial number 60023357 available during the initial verification process. Re Carbon Ltd. hereby confirms that the change in the monitoring practices of $EGPP\text{-}_{selfconsumptionTEDAŞ,y}$ parameter has no impact on the project to be in compliance with the VCS rules and requirements and has no impact on the applicability of the methodology, additionality and the appropriateness of the baseline scenario.

3.4 Grouped Project

The project is not a grouped project.

4 VERIFICATION FINDINGS

The verification findings have been detailed as in below.

4.1 Project Implementation Status

Compliance of the Project Implementation with the Registered PD:

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.

According to the registered PD, the estimated annual emission reduction is 580,882 tCO2e and corresponding total estimated amount for the monitoring period is 3,342,061 tCO_2e. The actual values achieved for the current monitoring period is 1,681,349 tCO_2e. The actual amount of emission reduction for the current monitoring period is about 49.7% less than the estimated emission reduction amount. However, the difference is due to the annual changes and deviations in the precipitation regime and so as in the water flow. Besides that, the difference in the values does not lead to a substantial increment of the ER in this period in relation to the estimates in the registered PD.

According to the official records published by the General Directorate of Meteorology in Turkey, annual areal precipitation in the Black Sea Region, where the project is located, is significantly higher in 2015 and 2016. [2] (Please see the figure with the name “Karadeniz Bölgesi Yıllık Alansal Yağışlar” in the provided web link).Therefore, there could be decrease and increase in emission reduction amount throughout the long lifetime of the project activity considering the deviations in annual precipitation amount and it could be concluded that the increase in 2015 and 2016 does not impact the materiality of the project.

The project also contributes to SDG 7 (Affordable and Clean Energy with 3,972,515.361 MWh net electricity generation), SDG 8 (Decent Work and Economic Growth with 28 employed staff during the recent year of operation period) and SDG-13 (Climate Action with achieved emission reduction of 1,681,349 tCO_2e) during the monitoring period.

The project was commissioned on 29/11/2012 which was verified by the provisional acceptance protocol. The project activity does not consist of more than one site and does not have any phased implementation.

[2] https://mgm.gov.tr/veridegerlendirme/yillik-toplam-yagis-verileri.aspx

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.

The only other eligible GHG program in the host country is Gold Standard and the certification program is Renewable Energy Certification (REC), and the project hasn't been listed in any of them, 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 hasn't been any issued Forward Action Requests (FARs) from the initial verification stage in line with the provided initial verification report version 01 dated as 04/09/2014.

Compliance of the Monitoring Plan with the Monitoring Methodology

The monitoring plan is in accordance with the approved methodology, ACM0002 version 14.0, applied by the project activity.

In line with the methodology and the registered PD, the monitored parameters are quantity of gross electricity generation supplied by the project plant to the grid in year y ($EGPP_{GrossProduction,y}$), quantity of electricity imported by the power plant from the grid for self consumption in year y ($EGPP_{self\ consumptionTEDAŞ,y}$), project emissions (PEFF,y), installed capacity of the hydro power plant after the implementation of the project activity (CAP_{PJ}) and area of the reservoir (AP_J) as in below:

- $EGPP_{GrossProduction,y}$ and $EGPP_{self\ consumptionTEDAŞ,y}$: The quantity of gross electricity delivered to the grid and the quantity of electricity imported by the power plant from the grid for self-consumption have 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 three main electricity meters at the grid interface and recorded monthly. There are also three back up electricity meters. That means, the electricity generation and consumption values have been determined through the summation of the measured values of three main meters and checked through three back up meters. All readings and billings are done via EPIAS system which is the legal database of the Ministry. During this verification, all EPIAS and TEIAS meter reading 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. SCADA system is also available from which daily reports are taken and the data collected daily is saved in plant manager computer and backed up.
- CAP_{PJ}: According to the monitoring plan in the registered PD, the installed capacity of the power plant is monitored supplier information on the equipment and the number of turbines. The project has three vertical axis Francis turbines each having installed capacity of 176 MWm / 171 MWe, so it has a total capacity of 528 MWm / 513 MWe in line with the electricity generation licence and provisional acceptance protocol. Re Carbon Ltd. hereby confirms that there hasn't been any change regarding the total installed capacity of the project.

- $PE_{HP,y}$: The emission from the reservoir has also been taken into consideration since power density is higher than 4 W/m^2 but less than 10 W/m^2 during this monitoring period and calculated as 360,517 tCO_2e by the PP and the same has been checked and confirmed by the verification team.
- AP_J: According to the monitoring plan in the registered PD, the area of the reservoir is monitored via topographical surveys, maps and satellite pictures. The reservoir area has been checked through the reservoir layout drawing of the project as in the initial verification process and the reservoir area is taken as 65,400,000 m^2 accordingly.

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.

CAR-15 and CAR-17 were issued regarding the monitoring and they had been closed out as detailed in Annex-1.

Compliance with the Calibration Frequency Requirements for Measuring Instruments:

The net electricity is measured continuously by three main electricity meters at the grid interface and recorded monthly. There are also three back up electricity meters.

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 are informed for the intervention. That means, TEIAS is responsible for the calibration and maintenance of the meters. The tests for the meters were performed on 03/12/2012, 14/11/2016, 17/07/2018, 17/09/2020 and 11/03/2021, respectively and those test reports were provided to VVB.

The serial numbers of the currently available main meters (installed on 11/03/2021) are 10013199, 10013201 and 10013203 (all are EMH model and accuracy class is 0.2s) and those of the currently available back up meters (installed on 11/03/2021) are 10013200, 10013202 and 10013204 (all are EMH model and accuracy class is 0.2s), respectively and these have been verified through the electricity meters' photos and meter test protocols. All these meters are bi-directional (meter the energy in two directions – generation and consumption). The serial numbers of dismantled main meters are 00452660, 00452662 and 00452664 (all are Elster model and accuracy class is 0.2s) and those of back up meters are 00452661, 00452663 and 00452665 (all are Elster model and accuracy class is 0.2s) and these meters had been available during the monitoring period.

CAR-16 was issued regarding the calibration and meter testing and this CAR had been closed as detailed in Annex-1.

4.2 Safeguards

4.2.1 No Net Harm

There hadn't 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 positive decision dated as 11/03/2008 by the General Directorate of Environment and Urbanization was also provided by the PP.

Besides that, the photos of waste storage areas and the hazardous waste declaration form submitted to the Ministry of Environment and Urbanization for 2015, 2016, 2017, 2018, 2019 and 2020 and waste water transfer and disposal records dated as 23/06/2014, 03/12/2015, 27/01/2016, 24/05/2019, 05/03/2020, 04/08/2020 and 12/03/2021 have been provided by the PP. The photographic evidences of domestic waste storage containers have also been provided to VVB. There hasn't been any fish passage within the context of the project activity and as similar there is also no life line water requirement in the project since the tail water of the project is discharged into the reservoir of Altınkaya Dam in the downstream in line with the information by PP.

4.2.2 Local Stakeholder Consultation

There hadn't been any complaint raised by the interviewed local stakeholders during the online verification site visit as detailed in Section 2.3.

The local stakeholders as stated in the Table 2-2 above were interviewed about the following issues and there hadn't been any complaint by the interviewed local stakeholders during the online site visit:

- Noise due to the project activity
- Impact on the aquatic life where the project had been constructed
- Sufficiency of local employment (The interviewed local stakeholders were pleased about the provided local employment opportunities by the PP)
- Waste management practices implemented by PP

It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local stakeholders during the online site visit. The document showing the contact details of the relevant person within PP with the signature of Beybükü Village Mukhtar (Village Head) and dated as 05/01/2021 was also provided to VVB.

Therefore, it could also be concluded that there hasn't been any complaint during the monitoring period in line with the provided records, information by PP and interviews with some local stakeholders.

4.3 AFOLU-Specific Safeguards

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

4.4 Accuracy of GHG Emission Reduction or Removal Calculations

EPİAŞ records are presented for all months of the monitoring period. All data in emission reductions table are checked with TEIAS meter reading protocol records as the main source and crosschecked with EPİAŞ 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
01/08/2014 - 31/12/2014	Export to Grid: 512,004.397 MWh Import from Grid: 1,945.361 MWh Net electricity supplied to grid: 510,059.036 MWh	Monthly TEIAS meter reading protocol records
01/01/2015 - 31/12/2015	Export to Grid: 928,403.991 MWh Import from Grid: 8,345.849 MWh Net electricity supplied to grid: 920,058.142 MWh	Monthly TEIAS meter reading protocol records
01/01/2016 - 31/12/2016	Export to Grid: 827,413.665 MWh Import from Grid: 5,779.977 MWh Net electricity supplied to grid: 821,633.688 MWh	Monthly TEIAS meter reading protocol records
01/01/2017 - 31/12/2017	Export to Grid: 586,973.368 MWh Import from Grid: 5,791.379 MWh Net electricity supplied to grid: 581,181.989 MWh	Monthly TEIAS meter reading protocol records
01/01/2018 - 31/12/2018	Export to Grid: 470,168.217 MWh Import from Grid: 5,472.730 MWh Net electricity supplied to grid: 464,695.487 MWh	Monthly TEIAS meter reading protocol records
01/01/2019 - 31/12/2019	Export to Grid: 651,386.945 MWh Import from Grid: 4,310.093 MWh Net electricity supplied to grid: 647,076.852 MWh	Monthly TEIAS meter reading protocol records
01/01/2020 - 30/04/2020	Export to Grid: 29,384.856 MWh Import from Grid: 1,574.689 MWh Net electricity supplied to grid: 27,810.167 MWh	Monthly TEIAS meter reading protocol records
Total	Export to Grid: 4,005,735.439 MWh Import from Grid: 33,220.078 MWh Net electricity supplied to grid: 3,972,515.361 MWh	Monthly TEIAS meter reading protocol 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 14.0 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 (tCO_2e/yr)

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

PE_y = Project emissions in year *y* (tCO2e/yr)

According to the applied methodology, for hydropower plants if the power density of the reservoir is higher than 10 W/m^2, then Pey = 0. The power density of the project is calculated as follows:

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}}$$

Where;

PD = Power density of the project activity (W/m^2)

Cap_{PJ} = Installed capacity of the hydro power plant after the implementation of the project activity (W)

Cap_{BL} = Installed capacity of the hydro power plant before the implementation of the project activity (W). For new hydro power plants, this value is zero

A_{PJ} = Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m^2)

A_{BL} = Area of the single or multiple reservoirs measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m^2). For new reservoirs, this value is zero

The project activity is a greenfield run-of–river hydropower project, so Cap_{BL} and A_{BL} are equal to zero.

A_{PJ} = 65,400,000 m^2 (according to the registered PD and initial verification process of the project)

Cap_{PJ} = 513,000,000 W

The power density is calculated as follows:

PD = 513,000,000 / 65,400,000 = 7.84 W/m^2

As the power density is higher than 4 W/m^2 but less than 10W/m^2, the project emissions of the project including the emission from the reservoir has been considered by PP in line with the applied methodology. Therefore, the emission reductions generated during the monitoring period are calculated as follows:

$ER_y = BE_y - PE_y - LE_y$

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 CO_2/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 CO_2 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"(tCO_2 / 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.

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

$PE_y = PE_{HP,y}$

PE_y = Project emissions in year y (t CO_2/y)

$PE_{HP,y}$ = Project emission from the reservoir (t CO_2/y)

The energy generating equipment is not transferred from or to another activity. Therefore, leakage (LE_y) is also considered as "0" in line with the relevant applied methodology.

Combined margin CO_2 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 0.514 tCO_2 / 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 and project 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 3,342,061 tCO_2e corresponding to the monitoring period. However, the project in operation totally reached 1,681,349 tCO_2e 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_2e)
01/08/2014 - 31/12/2014	216,089
01/01/2015 - 31/12/2015	389,352
01/01/2016 - 31/12/2016	347,851
01/01/2017 - 31/12/2017	245,899
01/01/2018 - 31/12/2018	196,537
01/01/2019 - 31/12/2019	273,972
01/01/2020 - 30/04/2020	11,649

Calculations have been reproduced by the VVB and the source data (monthly TEIAS meter reading protocol records) are presented by PP as explained above.

CAR-19, CAR-20, CAR-21 and CAR-22 were issued regarding the emission reduction calculations and the data used for these calculations and it had been closed as detailed in Annex-1. Therefore, 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 14.0 and the monitoring plan given in the registered PD.

4.5 Quality of Evidence to Determine GHG Emission Reductions or 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 validation report version 01 dated 24/07/2014, the combined margin emission factor had been validated and will remain the same for the first crediting period of 10 years as 0.514 tCO2/MWh.

The only parameter that needs to be closely verified is the net electricity generation and this value is taken from the TEIAS and EPIAS records which 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, EPIAS records which include the monthly generation and consumption figures of the plant for every month have been reviewed by the verification team.

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

4.6 Non-Permanence Risk Analysis

N/A. (The project isn’t an AFOLU project).

5 VERIFICATION CONCLUSION

Re Carbon Ltd. has performed the second verification of “Boyabat Hydroelectric Power Plant” which is a project with the VCS registry reference number “1345” for the period between 01 August 2014 and 30 April 2020. The scope of the activities cover the verification and certification of GHG emissions reductions reported in monitoring report version 06 dated 18/04/2022.

Rüzgar Danışmanlık Ltd. Şti. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project monitoring plan indicated in the registered PD. The development and maintenance of the records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of both Rüzgar Danışmanlık Ltd. Şti. and 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 06.

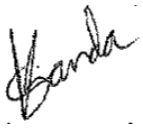
The verification has been performed by a verification team consisting of “Anıl Söyler as team leader and Sandeep Kanda as ITR” and the project activity was checked against the applicable rules and regulations of CDM including Section I of CDM Modalities and Procedures, the relevant guidance and decisions of the COP/MOP, CDM EB and VCS Organization, CDM Validation and Verification Standard version 03.0, CDM Project Standard version 03.0, CDM Project Cycle Procedure version 03.0 and VCS version 4.1.

Re Carbon Ltd. hereby confirms that the project activity “Boyabat Hydroelectric Power Plant” in Turkey is implemented in accordance with the validated and registered PD version 01 and dated 24/07/2014. The monitoring system is in place and the emission reductions are calculated without material misstatements as per the applied approved methodology, which is ACM0002 version 14.0. It is also confirmed that the level of assurance of this verification report is reasonable.

Re Carbon Ltd. confirms the following based on the results of document review for the period between 01 August 2014 and 30 April 2020:

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
2014	262,170	46,080	0	216,089
2015	472,909	83,556	0	389,352
2016	422,319	74,467	0	347,851
2017	298,727	52,828	0	245,899
2018	238,853	42,315	0	196,537
2019	332,597	58,625	0	273,972
2020	14,294	2,645	0	11,649
Total	**2,041,869**	**360,517**	**0**	**1,681,349**

Anıl SÖYLER
Team Leader
19/04/2022



Sandeep KANDA
ITR
19/04/2022

Esin TUNALI
Certification Manager
19/04/2022

ANNEX 1: VERIFICATION PROTOCOL

Table 1 – VCS Monitoring Report (MR) Form Requirements

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
Cover Page and General Requirements					
1. Are all items in the box at the bottom of the cover page completed using Arial 10.5 pt, black, regular (non-italic) font?	VCS Std. Version 4.0	DR	Please include the logo and contact information or remove these in the cover page of the MR.	CAR-1	OK
2. Are the followings provided at the cover page in a tabular format?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
2.1. Name of the project?	VCS Std. Version 4.0	DR	This is available as Boyabat Hydroelectric Power Plant.	OK	OK
2.2. Version number of the VCS MR?	VCS Std. Version 4.0	DR	This is available as version 01.	OK	OK
2.3. Report ID of the document	VCS Std. Version 4.0	DR	This is available as Boyabat HEPP Monitoring2.	OK	OK
2.4. The issuance date of the document in DD-Month-YYYY format?	VCS Std. Version 4.0	DR	This is available as 01/08/2021 in the initial version of the MR.	OK	OK
2.5. VCS project database ID, if registered	VCS Std. Version 4.0	DR	This is available as 1345.	OK	OK
2.6. Monitoring period in DD-Month-YYYY to DD-Month-YYYY format	VCS Std. Version 4.0	DR	This is available as from 01-08-2014 to 30-04-2020.	OK	OK
2.7. Individual or entity that prepared the document?	VCS Std. Version 4.0	DR	This is available as Cagla Balci Eris-Ruzgar Danismanlik.	OK	OK
2.8. Physical address, telephone, email, website?	VCS Std. Version 4.0	DR	These details are available.	OK	OK
3. Is this box available on the title page of the final document?	VCS Std. Version 4.0	DR	This is available in the version 01 of the MR.	OK	OK
4. Is there “Table of Contents” in the VCS MR?	VCS Std. Version 4.0	DR	a) This is available but please correct the font size of Contents heading in line with the MR template b) Please correct the Appendix title in the Table of Contents part. c) Please correct the Section 5 heading in the Table of Contents part.	CAR-2	OK
5. Is the VCS MR used as a basis for verification prepared in accordance with the latest template and guidance from the VCS?	VCS Std. Version 4.0	DR	Please see CAR-1.	CAR-1	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
6. Are the VCS MR and other documents required under the VCS Program in English?	VCS Std. Version 4.0	DR	MR and all other required documents are in English except for some legal permit documents since they are in Turkish.	OK	OK
1. PROJECT DETAILS					
1.1. Summary Description of the Implementation Status of Project					
1.1.1. Has a brief summary of the project description provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	The brief summary is available but please see in below: a) Please include the net electricity generation and achieved ER values including the comparison results under Section 1.1 of the MR. b) Please include the current status of the project activity under Section 1.1 of the MR. c) Please include the initial and current monitoring details in the Table-2. d) Please provide the references for all figures and Tables throughout the MR. e) The maximum discharge value doesn't match with the provisional acceptance protocols. f) Please include the total installed capacity as MWm and MWe. g) Please correct the installed capacity value of each turbine in the provided table under Section 1.1 of the MR.	CAR-3	OK
1.1.2. Has the purpose of the project activity and the measures taken to reduce greenhouse gas emissions been provided under section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	Please provide the purpose of the project activity and the measures taken to reduce greenhouse gas emissions under Section 1.1 of the MR.	CAR-4	OK
1.1.3. Has a brief description of the installed technology and equipment been provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	a) Please provide the brief description of the installed technology and equipment including turbine brand and models, serial numbers in the Section 1.1 of the MR and please also provide the reference documents and turbine name plates. b) Please clarify whether any new reservoir formation within the context of the project activity in the Section 1.1 of the MR.	CAR-5	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
1.1.4. Has the relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.) been provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	Please see option b of CAR-3.	CAR-3	OK
1.1.5. Has the total emissions reductions achieved in this monitoring period been provided under Section 1.1 of the MR?	VCS Std. Version 4.0 CDM-MR-FORM Version 7.0	DR	Please see option a of CAR-3.	CAR-3	OK
1.2. Sectoral Scope and Project Type					
1.2.1. Is it indicated whether this a grouped project under Section 1.2 of the MR?	VCS Std. Version 4.0	DR	This has been indicated and the project is not a grouped project.	OK	OK
1.2.2. Is the sectoral scope(s) applicable to the project indicated?	VCS Std. Version 4.0	DR	This has been indicated as Scope 1: “Energy Industry – Renewable/Non-renewable Sources”.	OK	OK
1.2.3. Is the category of the project activity specified?	VCS Std. Version 4.0	DR	N/A (Since this isn’t an AFOLU project, the category is not applicable).	OK	OK
1.3. Project Proponent					
1.3.1. Are the contact information for the project proponent(s) provided in the tabular format?	VCS Std. Version 4.0	DR	The project proponent is available as Boyabat Elektrik Üretim ve Ticaret A.Ş.	OK	OK
1.4. Other Entities Involved in the Project					
1.4.1. Are the contact information and roles/responsibilities for any other entities involved in the development of the project provided?	VCS Std. Version 4.0	DR	This is available in the Section 1.4 of the MR.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
1.5. Project Start Date					
1.5.1. Is the project start date (the date on which the project began reducing or removing GHG emissions) indicated in day, month and year format?	VCS Std. Version 4.0	DR	The project start date is available as 29/11/2012 along with the relevant justification.	OK	OK
1.6. Project Crediting Period					
1.6.1. Is the total crediting period including the day, month and year for the start and end dates and the total number of years indicated?	VCS Std. Version 4.0	DR	These are available in the Section 1.6 of the MR but please clarify the current crediting period number of the project activity.	CL-1	OK
1.7. Project Location					
1.7.1. Has complete information on the location of the project activity, including town, city, country and GPS coordinates been provided under Section 1.7 of the MR?	VCS Std. Version 4.0	DR	a) Please include the reference document information for all provided coordinates considering the current status of the project in Section 1.7 of the MR. b) Please provide more detailed information regarding the location of the project activity, including town, city etc.	CAR-6	OK
1.8. Title and Reference of Methodology					
1.8.1. Is the following information provided regarding the methodology(s) applied to the project?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
1.8.1.1. The title of the methodology(ies)	VCS Std. Version 4.0	DR	This is available.	OK	OK
1.8.1.2. The reference of the methodology(ies)	VCS Std. Version 4.0	DR	This is available.	OK	OK
1.8.1.3. The version number of the methodology(ies)	VCS Std. Version 4.0	DR	This is available.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
1.8.2. Is the following information provided regarding the tool(s) applied to the project?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
1.8.2.1. The title of the tool(s)	VCS Std. Version 4.0	DR	The titles of the referred tools are available.	OK	OK
1.8.2.2. The version number of the tool(s)	VCS Std. Version 4.0	DR	The version numbers of the referred tools have been provided.	OK	OK
1.9. Participation under Other Programs					
1.9.1. Has it been indicated whether the project has been registered or seeking registration under any other GHG programs?	VCS Std. Version 4.0	DR	a) Please clarify whether the project has been registered or seeking registration under any other GHG programs in the Section 1.9 of the MR. b) Please provide the 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.	CAR-7	OK
1.9.2. If the project has been registered under any other GHG programs, have the PPs provided the registration number and details?	VCS Std. Version 4.0	DR	Please see CAR-7.	CAR-7	OK
1.9.3. If the project has been registered under any other GHG programs, have the details of any GHG credits claimed under such programs been provided in the Section 1.9 of the MR?	VCS Std. Version 4.0	DR	Please see CAR-7.	CAR-7	OK
1.10. **Other Forms of Credit**					
1.10.1. Does the project reduce GHG emissions from activities that are included in an emissions trading program; or any other mechanism that includes GHG allowance trading?	VCS Std. Version 4.0	DR	a) Please clarify whether the project reduces GHG emissions from activities that are included in an emissions trading program; or any other mechanism that includes GHG allowance trading in the Section 1.10 of the MR. b) Please 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.	CAR-8	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
1.10.2. If the project reduces GHG emissions from activities that are included in an emissions trading program; or any other mechanism that includes GHG allowance trading, have the PPs provided evidence on the following?	VCS Std. Version 4.0	DR	Please see CAR-8.	CAR-8	OK
1.10.2.1. the reductions or removals generated by the project have or will not be used for compliance under such program(s) or mechanism(s)	VCS Std. Version 4.0	DR	Please see CAR-8.	CAR-8	OK
1.10.3. Have the project(s) created other forms of environmental credit (for example renewable energy certificates)?	VCS Std. Version 4.0	DR	Please see CAR-8.	CAR-8	OK
1.10.4. If the project(s) created other forms of environmental credit (for example renewable energy certificates), has the PPs provided all relevant information about the GHG-related environmental credits and the related program?	VCS Std. Version 4.0	DR	Please see CAR-8.	CAR-8	OK
1.10.5. Have all other programs under which the project is eligible to participate (to create another form of GHG-related environmental credit) been listed?	VCS Std. Version 4.0	DR	Please see CAR-8.	CAR-8	OK
1.11. Sustainable Development					
1.11.1. Has it been described how the project contributes to achieving any nationally stated sustainable development priorities, including any provisions for monitoring and reporting same?	VCS Std. Version 4.0	DR	a) Please check and correct all sentences like expected or estimated throughout the MR since the project is already operational. b) These have been explained in the Section 1.11 of the MR but please include the actual results of the contributed sustainable development indicators by the project during the monitoring period.	CAR-9	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
2. SAFEGUARDS					
2.1. No Net Harm					
2.1.1. Has it been summarized by PPs any potential negative environmental and socio-economic impacts of the project activity and the steps taken to mitigate them?	VCS Std. Version 4.0	DR	Please provide the following records: - Hazardous and domestic waste storage area photographic evidences - Domestic waste disposal records - Hazardous waste declaration form provided to Ministry of Environment and Urbanization for 2019 - Fish passage photographic evidences, if any, along with the design documents - Life line water official records signed by State Hydraulic Works -The noise assessment report, if any, -The training records and certificates for the monitoring period	CL-2	OK
2.2. Local Stakeholder Consultation					
2.2.1. Has the process regarding the local stakeholder consultation been described by PPs including the following?	VCS Std. Version 4.0	DR	Please see in below.	OK	OK
2.2.1.1. The procedures or methods used for engaging local stakeholders (e.g. dates of announcements or meetings, periods during which input was sought)	VCS Std. Version 4.0	DR	These are available in the MR.	OK	OK
2.2.1.2. The procedures or methods used for documenting the outcomes of the local stakeholder communication	VCS Std. Version 4.0		These are available in the MR.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
2.2.1.3. The mechanism for on-going communication with local stakeholders conducted prior to verification	VCS Std. Version 4.0		a) Please clarify whether there is complaint received during the current monitoring period in the Section 2.2 of the MR. b) Please provide the signed document about the contact details of the PP relevant staff in case of any complaint by Beybükü village and any other surrounding villages and whether there is any complaint received by the Muhktars from the local stakeholders. c) Please include the current status of the ongoing communication with the local stakeholders. d) Please include all local stakeholder communication details associated with the current monitoring period, not only for 2021, in the Section 2.2 of the MR.	CAR-10	OK
2.2.1.4. How due account of all and any input received during ongoing communication has been taken	VCS Std. Version 4.0		Please see CAR-10.	CAR-10	OK
2.2.1.5. The details on any updates to the project design or justifying why updates are not appropriate.	VCS Std. Version 4.0		Please clarify in the Section 2.2 of the MR whether there are any updates to the project design or please justify why updates are not appropriate.	CAR-11	OK
3. IMPLEMENTATION STATUS					
3.1. Implementation Status of The Project Activity					
3.1.1. Has a description of the implementation and operational status of the project as of this monitoring period been provided under section 3.1 of the MR?	CDM-MR-FORM Version 7.0	DR	Please see CAR-5.	CAR-5	OK
3.1.2. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in section 3.1 of the MR?	CDM-MR-FORM Version 7.0	DR	Please see CAR-5.	CAR-5	OK
3.1.3. Has the starting date of operation of the project activity been provided under Section 3.1 of the MR?	EB93 Report Annex 4 §257b	DR	The starting date of operation of the project activity has been provided.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
3.1.4. If the project activity consists of more than one site, has the status of implementation and starting date of operation for each site been clearly described under Section 3.1 of the MR?	EB93 Report Annex 4 §257b	DR	N/A	OK	OK
3.1.5. If the implementation of the project activity planned to be realized in different phases, has the progress of the proposed VCS project activity achieved in each phase been indicated under Section 3.1 of the MR?	EB93 Report Annex 4 §257b	DR	N/A	OK	OK
3.1.6. Do the actual project activity and its operation comply with the registered PD and/or an approved revised PD??	EB93 Report Annex 5 §357a	DR	The actual project activity and its operation complies with the registered PD.	OK	OK
3.1.7. Have the PPs implemented and operated the VCS project activity as per the descriptions contained in the registered PD?	EB93 Report Annex 5 §357a	DR	The actual project activity and its operation complies with the registered PD.	OK	OK
3.1.8. Has the installed technology(ies), technical process and equipment, including the diagrams, where appropriate, been included in Section 3.1 of the MR?	CDM-MR-FORM Version 7.0	DR	This has been provided in the Section 1.1 of the MR.	OK	OK
3.1.9. Are there any other changes (e.g. to project proponent or other entities) with respect to the registered project?	VCS Std. Version 4.0	DR	Please clarify in the Section 3.1 of the MR whether there are any changes with respect to other entities involved in the project comparing with the registered project.	CAR-12	OK
3.2. Deviations					
3.2.1. **Methodology Deviations**					
3.2.1.1. Are there any deviations from the methodology?	VCS Std. Version 4.0	DR	N/A (There haven't been any deviations from the methodology).	OK	OK
•					
3.2.1.2. If there are any deviations from the methodology, are these deviations described properly?	VCS Std. Version 4.0	DR	N/A (There haven't been any deviations from the methodology).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
3.2.1.3. If there are any deviations from the methodology, are these deviations justified properly and clearly?	VCS Std. Version 4.0	DR	N/A (There haven't been any deviations from the methodology).	OK	OK
3.2.2. **Project Description Deviations**					
3.2.2.1. Are there any deviations from the registered project description?		DR	a) Please correct the section numbers in the 3.2.1 and 3.2.2 of the MR. b) Please clarify if there is any change with the main source data of for EGPP-gross,y parameter throughout the MR. c) Please clarify whether there is any change with respect to project ownership and other entities involved in the project comparing with the registered project in the Section 3.2.2 of the MR.	CAR-13	OK
3.2.2.2. If there are any deviations from the project description, are these deviations described properly?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
3.2.2.3. If there are any deviations from the project description, are these deviations justified properly and clearly?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
3.2.2.4. Is the outcome of the deviation from the project description provided?	VCS Std. Version 4.0	DR	Please see CAR-13.	CAR-13	OK
3.3. Grouped Projects					
3.3.1. Is this a grouped project?	VCS Std. Version 4.0	DR	N/A (The project isn't a grouped project).	OK	OK
3.3.2. If it is a grouped project, is the relevant information about new instances of the project activity(ies) provided?	VCS Std. Version 4.0	DR	N/A (The project isn't a grouped project).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
3.3.3. If it is a grouped project, is it demonstrated clearly and transparently that each new instance of the project activity(s) meets the eligibility criteria set out in the project description?	VCS Std. Version 4.0	DR	N/A (The project isn't a grouped project).	OK	OK
4. DATA AND PARAMETERS					
4.1. Data and Parameters Available at Validation					
4.1.1. Has all the data that is determined only once for the crediting period but are used after registration of the project, been listed under Section 4.1 using the tabular format?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	All data that is determined only once for the crediting period but are used after registration of the project, has been listed but please also include EFgrid parameter in the under Section 4.1 of the MR.	CAR-14	OK
4.1.2. If all the data that is determined only once for the crediting period but are used after registration of the project, does the listed data include all the parameters used to calculate baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-14.	CAR-14	OK
4.1.3. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the name of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-14.	CAR-14	OK
4.1.4. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the unit of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-14.	CAR-14	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.1.5. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the description of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.6. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the source of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.7. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the values applied of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.8. In the data/parameter tables provided under Section 4.1 of the MR, for each data has the justification of choice of data or description of measurement methods and procedures applied been provided?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.1.9. In the data/parameter tables provided under Section 4.1 of the MR, for each data has it been indicated what the data/parameters are used for (baseline/project /leakage emission calculations)?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2. Data and Parameters Monitored					
4.2.1. Has all the data that are monitored been listed under Section 4.2 using the tabular format?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	EF_{Res}, EGPP-self consumption,y, EGPP-$Gross_{Production}$, Cap_{PJ} and AP_J are the monitored parameters in line with the registered PD.	OK	OK
4.2.2. In the data/parameter tables provided under section 4.2 of the MR, for each data has the name of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	EF_{Res}, EGPP-self consumption,y, EGPP-$Gross_{Production}$, Cap_{PJ} and AP_J are the monitored parameters in line with the registered PD.	OK	OK
4.2.3. In the data/parameter tables provided under section 4.2 of the MR, for each data has the unit of the data/parameters given in accordance with the registered VCS PD and the applied approved methodology?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	The units are available in line with the registered PD.	OK	OK
4.2.4. In the data/parameter tables provided under section 4.2 of the MR, for each data has it been described how the data is monitored?	CDM-MR-FORM Version 7.0 VCS Version 4.0	DR	This is stated in the Section 4.2 of the MR.	OK	OK
4.2.5. In the data/parameter tables provided under section 4.2 of the MR, for each data has the source of data been indicated (like logbooks, daily records, surveys, etc.)?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is in line with the registered PD.	OK	OK
4.2.6. In the data/parameter tables provided under section 4.2 of the MR, for each data has the estimated values of the monitoring parameter been indicated?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	a) Please provide the evidence reference document for AP_J parameter. b) Please include the calculation details of AP_J parameter in the MR.	CAR-15	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.7. In the data/parameter tables provided under section 4.2 of the MR, for each data has the QA/QC procedures being applied been given?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	a) Please provide meter test protocols associated with the monitoring period. b) Please include the last two meter test details in the Section 4.2 of the MR. c) Please clarify if there are any changed electricity meters and if this is within the monitoring period. d) Please correct the sentence “They have an accuracy class of Class0,5S indicating an accuracy range of ±0.2%.” in the Section 4.2 of the MR. e) Please include the calibration frequency in the Section 4.2 of the MR. f) Please include the person/entity responsible for the calibration in the Section 4.2 of the MR. g) Please include any standards or protocols or regulation to be followed for the calibration of the meters in the Section 4.2 of the MR.	CAR-16	OK
4.2.8. In the data/parameter tables provided under section 4.2 of the MR, for each data has the purpose of data been given? •	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the MR.	OK	OK
4.2.9. If applicable, has the calculation method, including any equations, used to establish the data/parameter been given?	VCS Std. Version 4.0	DR	This is available in the Excel spreadsheet.	OK	OK
4.2.10. In the data/parameter tables provided under section 4.2 of the MR, for each data has it been indicated what types of equipment are used to monitor each parameter, including following, if applicable as per the monitoring plan?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see in below.	OK	OK
4.2.10.1. Details on accuracy class	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR, SV	Please see option d of CAR-16.	CAR-16	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.10.2. The person/entity responsible for the measurement	VCS Std. Version 4.0	DR	Please see option f of CAR-16.	CAR-16	OK
4.2.10.3. Any standards or protocols to be followed	VCS Std. Version 4.0	DR	Please see option f of CAR-16.	CAR-16	OK
4.2.10.4. Calibration frequency	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see option e of CAR-16.	CAR-16	OK
4.2.10.5. Serial number	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR, SV	The currently available meters are as 10013199, 10013201 and 10013203 for the main meters and 10013200, 10013202 and 10013204 for the back-up meters.	OK	OK
4.2.10.6. Calibration date	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	The last meter change date is available but please CAR-16.	CAR-16	OK
4.2.10.7. Validity of the calibration	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see option e of CAR-16.	CAR-16	OK
4.2.11. In the data/parameter tables provided under section 4.2 of the MR, for each data has the measurement and recording frequency been indicated?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available.	OK	OK
4.2.12. Is the calibration frequency for measuring equipment specified in the monitoring methodology, in the applied standardized baselines or in the monitoring plan??	EB93 Report Annex 5 §368 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.13. If the calibration frequency for measuring equipment isn't specified in the monitoring methodology, guidance provided by the Board or the monitoring plan, are the equipment calibrated either in accordance with the specifications of the local/national standards, or as per the manufacturer's specification?	EB93 Report Annex 5 §373 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.14. If neither local/national standards nor the manufacturer's specification are available, have the international standards been used?	EB93 Report Annex 5 §373 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.15. Is the calibration of the measuring equipment that have an impact on the claimed emission reductions conducted by the PPs at a frequency specified in the applied monitoring methodology and/or the monitoring plan?	EB93 Report Annex 5 §374 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.16. Has the calibration been delayed and has the calibration been implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period?	EB93 Report Annex 5 §369 VCS Std. Version 4.0	DR	This is in line with the registered PD and relevant legal regulation.	OK	OK
4.2.17. If the calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period, are one of the following approaches adopted by the PPs for the calculation of emission reductions?	EB93 Report Annex 5 §369 VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.17.1. Applying the maximum permissible error of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error; or	EB93 Report Annex 5 §369a VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.17.2. Applying the error identified in the delayed calibration test, if the error is beyond the maximum permissible error of the measuring equipment.	EB93 Report Annex 5 §369b VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.18. If calibration is delayed and if the calibration is implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available) for the certain monitoring period, has the error been applied in following ways?	EB93 Report Annex 5 §370 VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.18.1. The adjusted measured values of the delayed calibration result in fewer claimed emission reductions?	EB93 Report Annex 5 §370a VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.18.2. For all measured values taken during the period between the scheduled date of calibration and the actual date of calibration?	EB93 Report Annex 5 §370b VCS Std. Version 4.0	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.19. If the results of the delayed calibration aren't available, have Pss calculated the emission reductions conservatively?	EB93 Report Annex 5 §371	DR	N/A (The calibration of the meters is valid ten years).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.2.20. If the results of the delayed calibration aren't available, have post registration requirements been followed by the PPs?	EB93 Report Annex 5 §372	DR	N/A (The calibration of the meters is valid ten years).	OK	OK
4.2.21. Have any information about appropriate emission factors, IPCC default values and any other reference values that have been used in the calculation of emission reductions been given in detail in the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	N/A	OK	OK
4.2.22. If the data that are monitored been listed under section 4.2 using the tabular format, does the listed data include all the parameters used to calculate baseline, project and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0 EB93 Report Annex 4 §260	DR	EF_{Res}, EGPP-self consumption,y, EGPP-$Gross_{Production}$, Cap_{PJ} and AP_J are the monitored parameters in line with the registered PD.	OK	OK
4.2.23. Is a complete set of data available for the specified monitoring period?	EB93 Report Annex 5 §376 VCS Std. Version 4.0	DR	EF_{Res}, EGPP-self consumption,y, EGPP-$Gross_{Production}$, Cap_{PJ} and AP_J are the monitored parameters in line with the registered PD.	OK	OK
4.3. Monitoring Plan					

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3.1. Has a description of the monitoring system been provided under Section 4.3 of the MR?	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the monitoring system is available and in line with the registered PD but please include the number of employees in the Section 4.3 of the MR.	CAR-17	OK
4.3.2. Has information about the data collection procedures, including following been provided under Section 4.3 of the MR?	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	Please see in below.	OK	OK
4.3.2.1. Information flow including data generation	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data generation is available and in line with the registered PD.	OK	OK
4.3.2.2. Data aggregation	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data aggregation is available and in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3.2.3. Data recording	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data recording is available and in line with the registered PD.	OK	OK
4.3.2.4. Data calculation	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data calculation (net electricity generation) is available and in line with the registered PD.	OK	OK
4.3.2.5. Data reporting	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The details of the data reporting is available and in line with the registered PD.	OK	OK
4.3.3. Has organizational structure, roles and responsibilities of personnel, and emergency procedures for the monitoring system been provided under section 4.3 of the MR?	CDM-MR-FORM Version 7.0 EB93 Report Annex 4 §259 VCS Std. Version 4.0	DR	The brief information about the roles and responsibilities of each personnel (like project manager, engineers and technicians etc.) has been provided in the Section 4.3 of the MR.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3.4. Regarding to the management and operational system, are the responsibilities and authorities for monitoring and reporting in accordance with the responsibilities and authorities stated in the monitoring plan?	EB93 Report Annex 5 §364b-(iv) VCS Std. Version 4.0	DR	The brief information about the roles and responsibilities of each personnel (like project manager and technicians etc.) has been provided in the Section 4.3 of the MR.	OK	OK
4.3.5. Have quality assurance and quality control procedures been applied in accordance with the monitoring plan?	EB93 Report Annex 5 §364e VCS Std. Version 4.0	DR	These are in line with the registered PD.	OK	OK
4.3.6. Are the procedures for handling internal auditing and non-conformities described?	VCS Std. Version 4.0	DR	Please include the procedures, if any, for handling internal auditing and non-conformities described in the Section 4.3 of the MR.	CAR-18	OK
4.3.7. Where appropriate, are the line diagrams to display the GHG data collection and management system included?	VCS Std. Version 4.0	DR	N/A (This is explained without any diagram).	OK	OK
4.3.8. If the sampling approaches used in the monitoring plan, has the following been included?	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.1. target precision levels	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.2. sample sizes	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.3. sample site locations	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.4. stratification	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.5. frequency of measurement and	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.6. QA/QC procedures	VCS Std. Version 4.0	DR	N/A (The sampling approach hasn't been used).	OK	OK
4.3.8.7. Demonstration on whether the required confidence/precision has been met.	CDM-MR-FORM Version 7.0	DR	N/A (The sampling approach hasn't been used).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
4.3.9. Have the monitoring plan and the applied methodology been properly implemented and followed by the PPs?	EB93 Report Annex 5 §364a VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK
4.3.10. Has the monitoring of parameters (baseline / project / leakage / emission reduction) in the project activity been implemented in accordance with the monitoring plan contained in the registered PD or any accepted revised monitoring plan?	EB93 Report Annex 5 §364b-(i)-(ii)-(iii) VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK
4.3.11. Have all parameters stated in the monitoring plan, the applied methodology and relevant VCS requirements been sufficiently monitored and updated as applicable?	EB93 Report Annex 5 §364b VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK
4.3.12. Are monitoring results consistently recorded and stored as per the approved frequency?	EB93 Report Annex 5 §364d VCS Std. Version 4.0	DR	The monitoring system is available and in line with the registered PD.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
5. **QUANTIFICATION of GHG EMISSION REDUCTIONS and REMOVALS**					
5.1. **Baseline Emissions**					
5.1.1. Has all the formulae used to calculate the baseline emissions been provided under section 5.1 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	a) Please correct the Section number of Baseline Emissions in line with the MR template. b) Please include Section 5 in line with the MR template. c) Please include EPIAS screenshot values as the main source for the whole monitoring period and include in the MR. d) Please simplify the Excel spreadsheet to be checked and followed up transparently. e) Please remove the empty cells in Excel spreadsheet. f) Please correct the Gold Standard reference in the Excel spreadsheet. g) Please include the power density calculation details in the Excel spreadsheet. h) Please include the calculation details of the project emissions in the Excel spreadsheet. i) Please indicate all baseline, project, leakage emissions and ER values as an integer value in Excel spreadsheet and throughout the MR Please use round down function for vintage base total and monitoring period total ER values. j) Please include the vintage based comparison of expected and achieved ER values in the MR and Excel spreadsheet. k) Please consider the number of days in the calculation of estimated and actual ER values in the Excel spreadsheet. l) Please check and correct the ER value and net electricity generation in the Excel spreadsheet and throughout the MR considering above corrections. m) Please clarify the gap between the initial and second (current) verification of the project activity since the initial verification is completed in 2014 including the ongoing financial need of the project activity in terms of additionality.	CAR-19	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
5.1.2. Has sample calculations for all formulae used and calculation of baseline emissions or baseline net GHG removals by sinks, applying actual values been provided under section 5.1 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	This is available in the Excel spreadsheet calculation but please see CAR-19.	CAR-19	OK
5.1.3. Has all electronic spread sheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM Version 7.0	DR	Please see CAR-19.	CAR-19	OK
5.1.4. Have any assumptions used in baseline emission calculations been justified?	EB93 Report Annex 5 §376d VCS Std. Version 4.0	DR	N/A (There haven't been any assumptions used).	OK	OK
5.1.5. If applicable, are the appropriate emission factors used for the baseline emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e VCS Std. Version 4.0	DR	N/A (The grid emission factor has been calculated and determined during the validation process).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
5.2. **Project Emissions**					
5.2.1. Has all the formulae used to calculate the project emissions been provided under section 5.2 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please include the reference to the applied methodology with regards to the project emissions.	CAR-20	OK
5.2.2. Has sample calculations for all formulae used and calculation of project emissions or or actual net GHG removals by sinks, applying actual values been provided under section 5.2 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-19.	CAR-19	OK
5.2.3. Has all electronic spreadsheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM Version 7.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.2.4. Have any assumptions used in project emission calculations been justified?	EB93 Report Annex 5 §376d VCS Std. Version 4.0	DR	N/A (There haven't been any assumptions used).	OK	OK
5.2.5. If applicable, are the appropriate emission factors used for the project emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e VCS Std. Version 4.0	DR	N/A (The grid emission factor has been calculated and determined during the validation process).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
5.3. **Leakage**					
5.3.1. Has all the formulae used to calculate the leakage emissions been provided under section 5.3 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please include the reference to the applied methodology with regards to the leakage.	CAR-21	OK
5.3.2. Has sample calculations for all formulae used and calculation of leakage emissions, applying actual values been provided under section 5.3 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-21.	CAR-21	OK
5.3.3. Has all electronic spread sheets to present full calculations in the monitoring report been attached?	CDM-MR-FORM Version 7.0	DR	This is available in the Excel spreadsheet calculation.	OK	OK
5.3.4. Have any assumptions used in leakage emission calculations been justified?	EB93 Report Annex 5 §376d VCS Std. Version 4.0	DR	N/A (There haven't been any assumptions used).	OK	OK
5.3.5. If applicable, are the appropriate emission factors used for the leakage emission calculations in line with the good guidance practices? (e.g. IPCC default values and other reference values)	EB93 Report Annex 5 §376e VCS Std. Version 4.0	DR	N/A (The grid emission factor has been calculated and determined during the validation process).	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
5.4. Net GHG Emission Reductions and Removals					
5.4.1. Have the total baseline emissions or baseline net GHG removals by sinks during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please include the relevant formulae for the calculation of emission reductions in the Section 5.4 of the MR.	CAR-22	OK
5.4.2. Has the total project emissions or actual net GHG removals by sinks during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-19.	CAR-19	OK
5.4.3. Has the total leakage emissions during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-19.	CAR-19	OK
5.4.4. Have the total emission reductions or net anthropogenic GHG removals by sinks during the monitoring period been given under section 5.4 of the MR?	CDM-MR-FORM Version 7.0 VCS Std. Version 4.0	DR	Please see CAR-22.	CAR-22	OK
5.4.5. If there is material information that can cause overestimation of emission reductions or removals of the project activity, is this equal to higher than one of the following?	EB93 Report Annex 5 §329	DR	There hasn't been any material information detected.	OK	OK
5.4.5.1. 0.5 per cent of the emission reductions or removals for project activities achieving a total emission reduction or removal of equal to or more than 500,000 tons of carbon dioxide equivalent per year?	EB93 Report Annex 5 §329a	DR	There hasn't been any material information detected.	OK	OK

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Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
5.4.5.2. 1 per cent of the emission reductions or removals for project activities achieving a total emission reduction or removal between 300,000 and 500,000 tons of carbon dioxide equivalent per year?	EB93 Report Annex 5 §329b	DR	There hasn't been any material information detected.	OK	OK
5.4.5.3. 2 per cent of the emission reductions or removals for large-scale project activities achieving a total emission reduction or removal of 300,000 tons of carbon dioxide equivalent per year or less?	EB93 Report Annex 5 §329c	DR	There hasn't been any material information detected.	OK	OK
5.4.5.4. 10 per cent of the emission reductions or removals for the microscale project activities?	EB93 Report Annex 5 §329d	DR	There hasn't been any material information detected.	OK	OK
5.4.5.5. 5 per cent of the emission reductions or removals for small-scale project activities other than project activities covered under 5.4.5.4 above?	EB93 Report Annex 5 §329e	DR	There hasn't been any material information detected.	OK	OK
6. APPENDICES					
6.1. If any further background information regarding any raw data from monitoring is provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 4.0	DR	a) Please provide the mentioned document "Boyabat Data Workbook" in the Appendix-1. b) Please provide the calculation details of monitored value of APj parameter.	CAR-23	OK
6.2. If any further background information regarding additional information used in the monitoring plan is provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 4.0	DR	Please see CAR-23.	CAR-23	OK
6.3. If any further background information regarding documentation of activities conducted from the monitoring plan and diagrams are provided, is this information correct and supported by the appropriate evidence?	VCS Std. Version 4.0	DR	Please see CAR-23.	CAR-23	OK

*DR= Document Review, I= Interview, SV=Site Visit

Question	Reference	Means of verification *	Findings, comments, references and document sources	Draft opinion	Final opinion
7. OTHER REQUIREMENTS					
7.1. Forward Action Requests (FARs) Identified During Validation and/or Previous Verification					
7.1.1. Is there any remaining FARs from the validation and/or previous verification activities?	EB93 Report Annex 5 §38 §349	DR	There hasn't been any FAR issued by the relevant DOE during the initial verification process in line with the provided verification report.	OK	OK
7.1.2. If there any remaining FARs from the validation and/or previous verification activities, have the PPs addressed these FARs in the MR?	EB93 Report Annex 5 §38 §349	DR	There hasn't been any FAR issued by the relevant DOE during the initial verification process in line with the provided verification report.	OK	OK
7.1.3. Has the FARs been resolved?	EB93 Report Annex 5 §38 §349 §347d	DR	There hasn't been any FAR issued by the relevant DOE during the initial verification process in line with the provided verification report.	OK	OK

*DR= Document Review, I= Interview, SV=Site Visit

Table 2 – 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 Participants' Response	Verification Team Conclusion
CAR-1 Please include the logo and contact information or remove these in the cover page of the MR.	1	**Response 1:** Contact information has been removed.	Review-1: Ok Closed (The cover page of the MR has been revised accordingly).
CAR-2 a) This is available but please correct the font size of Contents heading in line with the MR template. b) Please correct the Appendix title in the Table of Contents part. c) Please correct the Section 5 heading in the Table of Contents part.	4	**Response 1:** a) Content heading font size has been revised as 10.5. b) Corrected as Appendix I. c) Section 5 heading is line with the MR template.	Review-1: a) Ok Closed (MR has been revised accordingly). b) c) Ok Closed (Table of Contents has been revised accordingly).
CAR-3 The brief summary is available but please see in below: a) Please include the net electricity generation and achieved ER values including the comparison results under Section 1.1 of the MR. b) Please include the current status of the project activity under Section 1.1 of the MR. c) Please include the initial and current monitoring details in the Table-2. d) Please provide the references for all figures and Tables throughout the MR. e) The maximum discharge value doesn't match with the provisional acceptance protocols. f) Please include the total installed capacity as MWm and MWe. g) Please correct the installed capacity value of each turbine in the provided table under Section 1.1 of the MR.	1.1.1	**Response 1:** a) Net electricity amount and comparison has been added to under section 1.1 of MR. b) The description has been added as below; "There is no main change until first monitoring period of the project." c) Table 2 has been revised accordingly. d) References are provided. e) Revised as 153,25 m3/hr f) MWm terms have been added to related sections. g) Corrected as; 178 MWm/171 Mwe x 3	Review-1: a) Ok Closed (Section 1.1 of the MR has been revised accordingly). b) Ok Closed (Section 1.1 of the MR has been revised accordingly). c) Ok Closed (Table-2 has been revised accordingly). d) Ok Closed (MR has been revised accordingly). e) Ok Closed ((MR has been revised accordingly). f) g) Ok Closed (Section 1.1 of the MR has been revised accordingly).
CAR-4	1.1.2	**Response 1:**	Review-1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
Please provide the purpose of the project activity and the measures taken to reduce greenhouse gas emissions under Section 1.1 of the MR.		Section 1.1 has been revised accordingly.	Ok Closed (Section 1.1 of the MR has been revised accordingly).
CAR-5 a) Please provide the brief description of the installed technology and equipment including turbine brand and models, serial numbers in the Section 1.1 of the MR and please also provide the reference documents and turbine name plates. b) Please clarify whether any new reservoir formation within the context of the project activity in the Section 1.1 of the MR.	1.1.3	**Response 1:** a) The brief description has been added under section 1.1 of MR. b) There is not any new reservoir formation for this project which is determined during site visit. Also description has been added under section 1.1 of MR.	Review-1: a) Ok Closed (The brief description of the installed technology and equipment has been provided and the provisional acceptance protocols have been provided as the reference documents). b) Ok Closed (Section 1.1 of the MR has been revised accordingly).
CAR-6 a) Please include the reference document information for all provided coordinates considering the current status of the project in Section 1.7 of the MR. b) Please provide more detailed information regarding the location of the project activity, including town, city etc.	1.7.1	**Response 1:** a) The project coordinates are same as the old status which is approved during first verification and validation. In old generation licenses there is not any coordinates so this is random measurement and approved during validation and first verification. Figure 3 is also added from Google Earth. b) Description has been revised as "The Project is located at the Central Black Sea Geographical Region/ Sinop Province, Durağan town and Kızılırmak River"	Review-1: a) Ok Closed (The registered PP has been provided as revised document). b) Ok Closed (Section 1.7 of the MR has been revised accordingly).
CAR-7 a) Please clarify whether the project has been registered or seeking registration under any other GHG programs in the Section 1.9 of the MR. b) Please provide the 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) Section 1.9 has been revised as "The project activity has not been registered, or currently seeking registration under any other GHG programs." b) Provided accordingly.	Review-1: a) Ok Closed (Section 1.9 of the MR has been revised accordingly). b) Ok Closed (The signed and sealed letter by PP and dated as 01/11/2021 has been provided).
CAR-8	1.10.1	**Response 1:**	Review-1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
a) Please clarify whether the project reduces GHG emissions from activities that are included in an emissions trading program; or any other mechanism that includes GHG allowance trading in the Section 1.10 of the MR. b) Please provide the signed and sealed letter on company letterhead that project hasn't been included in an emission trading program; or any other mechanism that includes GHG allowance trading.		a) Section 1.10 has been revised accordingly. b) Provided as requested.	a) Ok Closed (Section 1.10 of the MR has been revised accordingly). b) Ok Closed (The signed and sealed letter by PP and dated as 01/11/2021 has been provided).
CAR-9 a) Please check and correct all sentences like expected or estimated throughout the MR since the project is already operational. b) These have been explained in the Section 1.11 of the MR but please include the actual results of the contributed sustainable development indicators by the project during the monitoring period.	1.11.1	**Response 1:** a) Revised accordingly. b) Section 1.11 actual results of the contributed sustainable development indicators have been added.	Review-1: a) Ok Closed (MR has been revised accordingly). b) Ok Closed (Section 1.11 of the MR has been revised accordingly).
CAR-10 a) Please clarify whether there is complaint received during the current monitoring period in the Section 2.2 of the MR. b) Please provide the signed document about the contact details of the PP relevant staff in case of any complaint by Beybükü village and any other surrounding villages and whether there is any complaint received by the Muhktars from the local stakeholders. c) Please include the current status of the ongoing communication with the local stakeholders. d) Please include all local stakeholder communication details associated with the current monitoring period, not only for 2021, in the Section 2.2 of the MR.	2.2.1.3	**Response 1:** a) Description has been added as below; "There is no complaint received during the current monitoring period." b) References are provided. Furthermore, DOE has already talked with Beybükü village headman and other villagers during the online verification site visit and there is no complaint related with the project. c) The local stakeholders and project owner has very good relationship and DOE has approved it during the verification site visit. d) References are provided during the verification site visit. The project owner has a good relationship from the beginning of the project.	Review-1: a) Ok Closed (Section 2.2 of the MR has been revised and it has been confirmed that there is no complaint during the current monitoring period. b) Ok Closed (The signed and sealed letter by Beybükü Village' Head (Mukhtar) dated as 05/012021 has been provided). c) Ok Closed (The current status of the ongoing communication with the local stakeholders has been provided in Section 2.2 of the MR). d) Ok Closed (Section 2.2 of the MR has been revised accordingly).
CAR-11	2.2.1.5	**Response 1:**	Review-1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
Please clarify in the Section 2.2 of the MR whether there are any updates to the project design or please justify why updates are not appropriate.		Description has been added as below; "There is no update and/or design change during this monitoring period. Yet, if there was any, project owner would consider the effects of the change on local people and take their opinion into account. After implementation of the project, no unexpected change has expected to occur with respect to risks, cost of locals. In terms of regulation, staffs have been trained as per the requirements of their assignment and regulations. Trainings include occupational health and safety, working at height and dangerous work, working under high voltage. Details of the trainings organized for staff has been submitted to DOE."	Ok Closed (Section 2.2 of the MR has been revised accordingly).
CAR-12 Please clarify in the Section 3.1 of the MR whether there are any changes with respect to other entities involved in the project comparing with the registered project.	3.1.9	**Response 1:** Description has been added as below; *"The project consultant has also been changed. Although it is stated as EKOBIL Environmental Services and Consulting Ltd., the project was shifted to RÜZGAR Danışmanlık during this verification period."*	Review-1: Ok Closed (Section 3.1 of the MR has been revised accordingly).
CAR-13 a) Please correct the section numbers in the 3.2.1 and 3.2.2 of the MR. b) Please clarify if there is any change with the main source data for EGPP-gross,y parameter throughout the MR. c) Please clarify whether there is any change with respect to project ownership and other entities involved in the project comparing with the registered project in the Section 3.2.2 of the MR.	3.2.2.1	**Response 1:** a) Corrected accordingly. b) Description has been added under section 3.2.2 Description has been added as below; c) "The project consultant has also been changed. Although it is stated as EKOBIL Environmental Services and Consulting Ltd., the project was shifted to RÜZGAR Danışmanlık during this verification period."	Review-1: a) Ok Closed (MR has been revised accordingly). b) c) Ok Closed (Section 3.2.2 of the MR has been revised accordingly).
CAR-14 All data that is determined only once for the crediting period but are used after registration of the project, has been listed	4.1.1	**Response 1:** EFgrid,CM,y parameter included under section 4.1 of MR accordingly.	Review-1: Ok Closed (Section 4.1 of the MR has been revised accordingly).

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
but please also include EFgrid parameter in the under Section 4.1 of the MR.			
CAR-15 a) Please provide the evidence reference document for AP_J parameter. b) Please include the calculation details of AP_J parameter in the MR.	4.2.6	**Response 1:** a) Reference document has been submitted. b) Appendix-1 shows the calculation details. The references also submitted.	Review-1: a) Ok Closed (The reference graph has been provided). b) Ok Closed (The reference graph has been provided).
CAR-16 a) Please provide meter test protocols associated with the monitoring period. b) Please include the last two meter test details in the Section 4.2 of the MR. c) Please clarify if there are any changed electricity meters and if this is within the monitoring period. d) Please correct the sentence "They have an accuracy class of Class0,5S indicating an accuracy range of ±0.2%." in the Section 4.2 of the MR. e) Please include the calibration frequency in the Section 4.2 of the MR. f) Please include the person/entity responsible for the calibration in the Section 4.2 of the MR. g) Please include any standards or protocols or regulation to be followed for the calibration of the meters in the Section 4.2 of the MR.	4.2.7	**Response 1:** a) Test protocols are dated on 11/03/2021 and provided already to DOE. b) All meters test reports are dated on 11/03/2021. The serial numbers are visible on test reports. c) Details are provided. The old meters and new meters details are provided. Meters are changed on 11/03/2021. Please see section 4.2 of MR. d) Description has been corrected as *"They have an accuracy class of Class 0,2S indicating an accuracy range of ±0.2%."* e) The calibration frequency has been added under section 4.2 of MR. f) Description has been added as below; "Aras EDAŞ Electricity Authorised Distribution Company is the responsible entity from calibrations." g) The regulation has been defined. Measuring instruments regulation has been followed by Aras EDAŞ. **Response 2:** a) The meter test protocols associated with the monitoring period has been provided to the VVB. b) The last two-meter test details have been already included in the Section 4.2 of the MR.	Review-1: a) Please provide meter test protocols associated with the monitoring period. b) Please include the last two meter test details in the Section 4.2 of the MR. c) Ok Closed (The meter change protocol dated as 11/03/2021 has been provided). d) e) f) g) Ok Closed (Section 4.2 of the MR has been revised accordingly). Review-2: a) Ok Closed (The meter test protocols have been provided). b) Ok Closed (Section 4.2 of the MR has been revised accordingly).

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
CAR-17 The details of the monitoring system is available and in line with the registered PD but please include the number of employees in the Section 4.3 of the MR.	4.3.1	**Response 1:** The number of employees is 28. The description has been added under section 4.3. SGK records are provided during first round.	Review-1: Ok Closed (Section 4.3 of the MR has been revised accordingly).
CAR-18 Please include the procedures, if any, for handling internal auditing and non-conformities described in the Section 4.3 of the MR.	4.3.6	**Response 1:** There is not any specific internal auditing and non-conformities procedures regarding to VCS verification or validation.	Review-1: Ok Closed (Section 4.3 of the MR has been revised accordingly).
CAR-19 a) Please correct the Section number of Baseline Emissions in line with the MR template. b) Please include Section 5 in line with the MR template. c) Please include EPIAS screenshot values as the main source for the whole monitoring period and include in the MR. d) Please simplify the Excel spreadsheet to be checked and followed up transparently. e) Please remove the empty cells in Excel spreadsheet. f) Please correct the Gold Standard reference in the Excel spreadsheet. g) Please include the power density calculation details in the Excel spreadsheet. h) Please include the calculation details of the project emissions in the Excel spreadsheet. i) Please indicate all baseline, project, leakage emissions and ER values as an integer value in Excel spreadsheet and throughout the MR Please use round down function for vintage base total and monitoring period total ER values. j) Please include the vintage based comparison of expected and achieved ER values in the MR and Excel spreadsheet.	5.1.1	**Response 1:** a) Corrected accordingly. b) Corrected accordingly MR Template. c) OSOS measurements are lower than EPIAŞ records so for being conservative OSOS used as a main source and EPİAŞ used for cross check. Details are described under section 5. d) The main source is OSOS-OSF records in excel sheet. Boyabat HEPP sheet shows baseline emissions, "Project Emissions" sheet shows project emissions and "ER" sheet shows emission reductions. Formulas are open and transparent. e) Empty cells have been removed. f) Revised accordingly. g) Details are already provided in "Reservoir Area" sheet of the ER excel sheet. h) Project emissions are calculated through ACM0002 Version 14 section 5.4.3. The formula and calculation details are added to ER calculation sheet and MR. i) Corrected accordingly. Baseline emissions are rounded down, project emissions are rounded up. According to minor changes MR and excel sheet have been revised.	Review-1: a) b) Ok Closed (MR has been revised accordingly). c) Ok Closed (MR has been revised accordingly). d) e) f) Ok Closed (ER Calculation Excel spreadsheet has been revised accordingly). g) Ok Closed (Power density calculations has been included in the Excel spreadsheet). h) Ok Closed (MR and ER Calculation Excel spreadsheet have been revised accordingly). i) Ok Closed (ER Calculation Excel spreadsheet has been revised accordingly). j) Ok Closed (The comparison calculation has been provided). k) Ok Closed (ER Calculation Excel spreadsheet has been revised accordingly). l) Ok Closed (Ok Closed (MR and ER Calculation Excel spreadsheet have been revised accordingly). m) Ok Closed (The explanation is deemed as acceptable and Section 5.4 of the MR has been revised accordingly).

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
k) Please consider the number of days in the calculation of estimated and actual ER values in the Excel spreadsheet. l) Please check and correct the ER value and net electricity generation in the Excel spreadsheet and throughout the MR considering above corrections. m) Please clarify the gap between the initial and second (current) verification of the project activity since the initial verification is completed in 2014 including the ongoing financial need of the project activity in terms of additionality.		j) Comparison has been added to excel sheet and MR accordingly. k) Number of days are described in excel sheet and MR. l) Revised accordingly. m) There is not any problem related to financial needs because of the gap between initial verification. The project activity only selected to continue this year to the second verification.	
CAR-20 Please include the reference to the applied methodology with regards to the project emissions.	5.2.1	**Response 1:** Project emission has been calculated through ACM0002 Version 14. Description has been added to MR.	Review-1: Ok Closed (Section 5.2 of the MR has been revised).
CAR-21 Please include the reference to the applied methodology with regards to the leakage.	5.3.1	**Response 1:** Leakage emission has been calculated through ACM0002 Version 14. Description has been added to MR.	Review-1: Ok Closed (Section 5.3 of the MR has been revised).
CAR-22 Please include the relevant formulae for the calculation of emission reductions in the Section 5.4 of the MR.	5.4.1	**Response 1:** Relevant formulae for the calculation ER has been added in Section 5.4 of the MR.	Review-1: Ok Closed (Section 5.4 of the MR has been revised).
CAR-23 a) Please provide the mentioned document "Boyabat Data Workbook" in the Appendix-1. b) Please provide the calculation details of monitored value of APj parameter.	6.1	**Response 1:** a) Reference has been submitted. b) The calculation based on the feasibility study. The reservoir area determined as 64,000,000 m2.	Review-1: a) Please provide the mentioned document "Boyabat Data Workbook" in the Appendix-1. b) Ok Closed (The calculation details have been provided). Review-2: a) Ok Closed (The monitored value of APj parameter has been revised as 65,400,000 m^2 as in the registered PD).
CAR-24 (Issued during ITR stage)	1.1.1	**Response 1:**	Review-1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
a) Please correct the initial monitoring period and verification report date in the Table-2 of the MR. b) The number of days for the monitoring period is to be corrected to 2100 days instead of 2099 days in ER Calculation Excel spreadsheet. c) Please correct the actual and estimated difference calculation in ER Calculation Excel spreadsheet. d) The value for parameter APj is reported inconsistently across the MR.		a) The initial monitoring period and verification report date have been revised in the Table-2 of the MR. b) The number of days for the monitoring period has been corrected to 2100 days instead of 2099 days in ER Calculation Excel spreadsheet. c) The actual and estimated difference calculation has been revised in ER Calculation Excel spreadsheet. d) MR has been revised.	a) Ok Closed (Table-2 of the MR has been revised accordingly). b) c) Ok Closed (ER Calculation Excel spreadsheet has been revised accordingly). d) Ok Closed (MR has been revised accordingly).
CAR-25 (Issued during ITR stage) a) Please provide the meter calibration and test dates for the covered monitoring period in the MR. b) Please clarify the text in the MR Section 4.3: 'Monitoring data is collected in accordance with the agreement done between the project owner and Turkish Electricity Distribution Company (ARAS EDAS) which provides the infrastructure for the connection to the national grid. Connection Agreement has signed on 20/05/2019 with Aras EDAŞ Electricity Authorised Distribution Company. System usage agreement has signed on 05/04/2019 with TEİAŞ. The metering system is defined in the agreement as two groups: main meter and spare meter. The design of the metering system is checked and approved by Aras EDAŞ before commissioning of the plant.' c) Please include the line diagram in the MR to describe clearly the monitoring points.	4.2.7	**Response 1:** a) The meter calibration and test dates have been provided for the covered monitoring period in the MR. And related proof documents have been provided to the DOE. b) ARAS EDAS is typo mistake. All of them has been revised as TEIAS throughout in the MR. c) The line diagram has been added in the MR.	Review-1: a) Ok Closed (Section 4.2 of the MR has been revised accordingly). b) Ok Closed (Section 4.3 of the MR has been revised accordingly). c) Ok Closed (Section 4.3 of the MR has been revised accordingly and the single line diagram has been provided).
CL-1 These are available in the Section 1.6 of the MR but please clarify the current crediting period number of the project activity.	1.6.1	**Response 1:** This is the first crediting period. Description has been added under section 1.6 of VCS PD.	Review-1: Ok Closed (Section 1.6 of the MR has been revised accordingly).
CL-2	2.1.1	**Response 1:**	Review-1:

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Draft Report Clarifications, Forward Action and Corrective Action Requests By Verification Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Verification Team Conclusion
Please provide the following records: - Hazardous and domestic waste storage area photographic evidences - Domestic waste disposal records - Hazardous waste declaration form provided to Ministry of Environment and Urbanization for 2019 - Fish passage photographic evidences, if any, along with the design documents - Life line water official records signed by State Hydraulic Works -The noise assessment report, if any, -The training records and certificates for the monitoring period		All references have been submitted. **Response 1:** All missing references have been submitted.	Please provide the following records: - Hazardous and domestic waste storage area photographic evidences. - Domestic waste disposal records - Ok Closed (The hazardous waste declaration forms provided to Ministry of Environment and Urbanization for 2015, 2016, 2017, 2018, 2019 and 2020 have been provided). - Fish passage photographic evidences, if any, along with the design documents - Life line water official records signed by State Hydraulic Works -The noise assessment report, if any, - Ok Closed (Training records have been provided). Review-2: - Ok Closed (Hazardous waste storage area and domestic waste storage container photographic evidences have been provided). - Ok Closed (There hasn't been any fish passage within the context of the project activity and as similar there is also no life line water requirement in the project since the tail water of the project is discharged into the reservoir of Altınkaya Dam in the downstream in line with the information by PP). - Ok Closed (Noise Assessment Report dated as 08/2016 has been provided).

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ANNEX 2: VERIFICATION TEAM AND ITR COMPETENCE

Anıl SÖYLER, Bsc. in Environmental Engineering, has completed his Bachelor degree in Middle East Technical University, Turkey. He has more than 15 years of professional experience in environmental management, monitoring and auditing, waste and waste water management, environmental and social impact assessment, GHG emission report and projects' validation and verification, environmental reports, team and client relationship management and quality management systems and has been involved in the validation/verification services of more than 200 GHG emission reduction projects in total. He has also been involved in both national and international projects supported by IFC, World Bank and EBRD. He has been working as contracted voluntary market projects' team leader/validator/verifier, technical reviewer and CDM validator/verifier in the context of Re Carbon.

Sandeep KANDA holds a degree in Mechanical Engineering, Masters in Energy systems engineering from Indian Institute of Technology – Bombay and Post Graduate Diploma in Industrial Safety & Environmental Management from National Institute of Industrial Engineering in India. He has more than ten years of work experience with auditing and consultancy firms, seven years thereof with Designated Operational Entities under the CDM. He is experienced working on diversified areas of energy and environmental management, including policies, Clean Development Mechanism (CDM), Corporate Sustainability Reporting (CSR) Audits, energy audits, utility audits and product development. As CDM auditor and technical reviewer for TÜV Süd, he has audited more than 30 CDM projects as technical reviewer; 40 projects as lead auditor and 7 PoAs in various capacities; covering a broad range of sectoral scopes, such as Energy industries (renewable - / non-renewable sources), Energy distribution, Energy demand, Manufacturing industries, Chemical industries, Transport, Metal production, Waste handling & disposal and Agriculture. He has been working as a contracted team leader, technical reviewer, TA 1.1 and renewable energy expert in the context of Re Carbon.

Annex 2-1: Appointment Certificates

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Prof. Dr. Aziz Sancar Cad. 27/6 TR / 06690 Çankaya-Ankara Tel.: 0090-312-287 5122 Fax: 0090-312-287 3373	**Certificate of Appointment**	re-carbon
	Carbon Division	Page: 1/1

This Certificate of Appointment is given to **Mr. Anıl SÖYLER** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	**Verifier**	**Team leader**	**Technical reviewer**	**Technical Expert**
08-02-2021	08-02-2021	N/A	N/A	08-02-2021

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	**Verifier**	**Team leader**	**Technical reviewer**	**Technical Expert**
08-02-2021	08-02-2021	08-02-2021	N/A	08-02-2021

Speciality	**Regional (Country) expertise**	**Financial expertise**	**Technical area**
N/A	Turkey	N/A	1.2 and 13.1

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the 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 and 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 the performance assessments and/or other reasons as defined above.

APPOINTMENT IS GRANTED BY			
Mr. Christian JOHANNES	General Manager	08-02-2021	
Name	**Position**	**Date**	**Signature**

R-C-19 / 21.01.2020– 02

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Prof. Dr. Aziz Sancar Cad. 27/3 TR / 06690 Çankaya-Ankara Tel.: 0090-312-287 5122 Fax: 0090-312-287 3373	**Certificate of Appointment** Carbon Division	re-carbon Page: 1/1

This Certificate of Appointment is given to **Mr. Sandeep KANDA** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Speciality	Regional (Country) expertise	Financial expertise	Technical area
N/A	India, Vietnam, Nepal and Turkey	N/A	1.1, 1.2, 2.1, 3.1, 4.1, 8.1, 8.2, 13.1, 13.2 & 15.1

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the 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 and 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 the performance assessments and/or other reasons as defined above.

APPOINTMENT IS GRANTED BY			
Mr. Anıl SÖYLER	Certification Manager	08-02-2021	
Name	Position	Date	Signature

F-C-053 / 31.03.2021-01