



Verification and certification report form for GS project activities

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	Cataloluk HEPP
GS Reference number of the project activity	872
Version number of the verification and certification report	3.0Aa
Completion date of the verification and certification report	02/09/2025
Monitoring period number and duration of this monitoring period	1 st Monitoring Period of 2 nd Crediting Period 25/11/2022 to 31/03/2024 (both days included)
Version number of monitoring report to which this report applies	Version 09 of 02/09/2025
Crediting period of the project activity corresponding to this monitoring period	01/04/2017-31/03/2024 (2 nd CP)
Project participant(s)	Elestaş Elektrik Üretim A.Ş (Private Entity, Project Owner)
Host Party	Türkiye
Sectoral scope(s), selected methodology(ies)	Sectoral scope 1: Energy Industries (Renewable-/non-renewable sources) AMS-I.D. Grid connected renewable electricity generation, version 18
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the revised registered PDD	19,945 tCO ₂ (GS-VERs)
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	16,311 tCO ₂ (GS-VERs)
Name of VVB	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the verification and certification report	 Laura Severino (Authorized officer signing for the VVB) Decarb & Chain of Custody Product Management

SECTION A. Executive summary

Purpose and general description of the project

This is the 2nd crediting period which started on 01/04/2017 and the project activity is a runoff-river reservoir type project built on Tekir creek was designed with a total capacity of 9.84 MWm/9.54 MWe (2X4.92 MWm / 2X4.77 MWe) as confirmed through the electricity generation license /10/ hence project is small scale. The generated electricity is fed to the Türkiye national grid. The estimated net electricity production of the project is 31,990 MWh and the annual emission reductions are estimated to be 14,766 tCO₂ per year as confirmed through the revised registered PDD /1/ and validation report /2/.

The proposed project activity comprises of renewable energy generation from hydrolic energy to generate and deliver electricity to the national grid without thermal energy production. The project type is hydro which is an eligible project type as it is in accordance with Eligible Project Types & Scope under Renewable Energy Activity Requirements. The project is located in Türkiye. Türkiye is upper middle income economy where the penetration level of the proposed Renewable Energy Technology type is less than %5 of the total grid installed capacity, at the time of the first submission to Gold Standard (eligibility clause will come into effect from 24 Jan 2020). The project activity aims to reduce the greenhouse gas emissions in Türkiye by replacing fossil fuel power generation and contributing to the development of the solar energy sector in Türkiye, as well as aims to support the local economy by creating local employment and providing equipment locally.

The GHG benefit of the project activity was only accounted under Gold Standard. There are not any other RECs such as VERRA, GCC or Social Carbon were being issued for the project activity. Furthermore, as a host country in Türkiye such any programme like a government-regulated system or programme for the constraint and monetisation of GHG emissions (such as emissions trading scheme, cap and trade or carbon tax mechanisms) has not been implemented.

Location

The project is located near Şahinkaya Village and Çağlayan Village in Kahramanmaraş Province of Turkey.

Scope of verification

Verification is the periodic independent review and ex-post determination by a VVB of the monitored reductions in GHG emissions that have occurred as a result of the registered GS project activity during a defined monitoring period. Certification is the written assurance by a VVB that, during a specific period in time, a project activity achieved the emission reductions as verified. The objective of this verification is to verify and certify emission reductions reported for the Cataloluk HEPP for the period 25/11/2022 to 31/03/2024.

The scope of the verification is to verify that:

- The project activity has been implemented and operated in accordance with the revised registered PDD or any approved revised PDD /1/;
- The monitoring plan, including compliance with any guidance provided by the Board regarding deviations from the provisions of a registered plan and/or methodology;
- The data and calculation of GHG emission reductions have been assessed to correctly support the emission reductions being claimed.

The verification shall ensure that reported emission reductions are complete and accurate in order to be certified.

Verification process

Verification is conducted using RINA procedures in line with the GS requirements and requirements specified in the CDM Validation and Verification Standard available at the time of the verification starts and applying standard auditing techniques. RINA assess and determines that the implementation and operation of the project activity, and steps taken to report emission reductions comply with the GS criteria. The verification assessment involved a document review of relevant documentation and the online audit.

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

Conclusion

RINA commissioned by GTE Karbon Sürdürülebilirlik Enerji Eğitim Dan. ve Tic. A.Ş on behalf of Elestaş Elektrik Üretim A.Ş has performed the verification of the emission reductions reported for the project activity Cataloluk HEPP, GS Registration Reference No. 872 for the monitoring period 25/11/2022 to 31/03/2024 with regard to the relevant GS requirements and principles for project activities. The project was validated by Carbon Check (version 3.0 issued on 21/08/2023) /2/.

The GHG emission reductions are calculated on the basis of the approved methodology AMS-I.D. Grid connected renewable electricity generation, version 18 /6/ and the monitoring plan included in the renewal registered PDD version 09 of 01/09/2023 /1/. In our opinion the GHG emission reductions reported for the project in the monitoring report Version 09 of 02/09/2025 /3/ are fairly stated.

SECTION B. Verification team, technical reviewer and approver**B.1. Verification team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader, Verifier, Technical Expert TA 1.2	IR	ERDOĞAN	Mehmet	RINA Türkiye	✓		✓	✓

B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Technical reviewer	IR	Carvalho	Thaís	RINA Brazil
2	Approver	IR	SEVERINO	Laura	RINA HO

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in the quantification of emissions (which may be more likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording).	Low	Being 1 st verification of the 2 nd crediting period, the project proponent is familiar with monitoring procedures and data reporting in line with the revised registered PDD and previous verification and certification reports. The prime monitoring parameter is net export to grid which is as per monthly generation report as recorded in calibrated energy meters. Hence, the risk level is low.	During the online audit, the verification team will interview the staffs of the GS team and check all records to confirm whether the monitoring plan by checking soft copies has been well implemented. The major parameters used for determining the project's baseline emissions are the measurement of net electricity generation according to the monitoring plan is recorded monthly. The team will review the whole data set of the monthly report and crosschecked against invoice raised. The verification team will check the relevant records to confirm whether the data collection procedure and QA/QC procedure have been well implemented.
2.	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Low	Being 1 st verification of the 2 nd crediting period, the project proponent has already established a well organized monitoring team, monitoring plan, including data collection procedure and QA/QC procedure consistent with registered monitoring plan. Monitoring equipments are calibrated at defined frequency. Hence, the risk level is low.	
3.	Manual adjustment of otherwise automatically recorded activity levels.	Low	As detailed in section C.2 below, the data of the main monitoring parameters are taken from calibrated meters (energy meter) and can be verified from totalizer values. The monitoring equipment's are calibrated according to national standards and rules. Hence, the risk level is low.	
4	An omission, misstatement, or erroneous reporting of information is material if it might lead, at an aggregated level, to an overestimation of the total GHG emission reductions or net anthropogenic GHG removals achieve by a registered GS project activity equal to or higher than the following thresholds:	Low	2 per cent of the emission reductions/removals for large-scale project activities achieving a total emission reduction of 300,000 tonnes of carbon dioxide equivalent per year or less	

C.2. Consideration of materiality in conducting the verification

The project activity happens at a single site and export to grid from the plant is monitored and recorded using calibrated energy meter and 100% data is available for verification. The data which directly affect emission reduction calculations being net electricity generation is monitored and measured by calibrated electricity meters, 100% verifiable. Hence, in line with paragraph 329 and section 9.1.2.3.1 of the CDM Validation and Verification standard /5/ no significant reporting risks to the materiality of the verification were envisaged while planning for the verification and were not identified during the verification process. During the course of the verification, the team reviewed the whole data set of monthly records for net electricity /12/ without any sampling. The data reported in the monitoring report are consistent with the monthly records, and the emission reductions are correctly calculated. In conclusion, the verification team confirms the data set to be free from material error.

SECTION D. Means of verification

D.1. Desk review

The monitoring report Version 09 of 02/09/2025 and previous versions /3/, the emission reduction calculations provided in the form of a spreadsheet Version 05 of 02/09/2025 /7/, the approved baseline and monitoring methodology AMS-I.D - version 18 /7/ and all the documentation provided to support the monitoring period /1 – 21/, was assessed as part of the verification. In addition, the Project Design Document (PDD) version 09 of 01/09/2023 /1/, in particular as regards the baseline estimations and the monitoring plan and the Validation Report version /2/ for the project, were reviewed. The list of all documents reviewed are referenced during the verification is available in Appendix 3 below.

D.2. Remote site audit

Duration of remote site audit: 15/04/2025				
No.	Activity performed on-site	Site location	Date	Team member
1.	Implementation and operation of the proposed project activity. Checked the monitoring equipment, interviewed key personnel of the plant to confirm the operational and data collection procedures, cross-checked between information provided in the monitoring report and data plant	Kahramanmaraş, Türkiye	15/04/2025	Mehmet ERDOĞAN
2.	Reviewed the information flows for generating, aggregating and reporting the monitoring parameters			
3.	Checked calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions			
4.	Checked the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters			
5.	Cross-checked between information provided in the monitoring report and data evidence, including the Gold Standard parameters			

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Y.	Deniz	Environmental Engineer GTE Consultant	15/04/2025	Implementation status of the project Monitoring equipment and operation Generated Electricity Monitoring of Gold Standard for Global Goal Parameters	Mehmet ERDOĞAN
2.	Y.	Hakan	Operation Manager			
3.	Y.	Mustafa	Şahinkayası Village Mukhtar	15/04/2025	Local Employment Receiving General Opinion of the local stakeholder about the project Benefit of the project to the village Bird carcasses Grievance Process	Mehmet ERDOĞAN
4	Y.	Nurullah	Şahinkayası Village stakeholder			
5	Ş.	Nurettin	Şahinkayası Village stakeholder			
6	K.	Taner	Çağlayan Village stakeholder			
7	G.	Üzeyir	Çağlayan Village Mukhtar			

During remote site audit it was confirmed that no negative feedbacks or comments were received related to project activity during grievance mechanism and continuous inputs for the monitoring period. There was also no grievance about the impact reached the VVB during the stakeholders' interviews. In addition to this, the VVB assessed that whether a comment book available at the most appropriate and publicly accessible location (Şahinkayası and Çağlayan Village, the nearest residential area) so that stakeholders can provide feedback on the project. The continuous input/grievance mechanism has been verified through interview with the headman of village and the logbook /21/ have been checked. There isn't any positive or negative comment written on them.

In addition to this during interview, it is asked to the stakeholders and project employees if any legal contests or disputes have arisen during the monitoring period and they confirmed that there is no legal contest or disputes have arisen.

D.4. Sampling approach

Not applicable.

D.5. Clarification requests, corrective action requests and forward action requests raised

Areas of verification findings	No. of CR	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	1		
Compliance of the project implementation with the revised registered PDD	1		
Post-registration changes			
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline			
Compliance of monitoring activities with the registered monitoring plan			
Compliance with the calibration frequency requirements for measuring instruments	1		
Assessment of data and calculation of emission reductions or net removals	2		
Assessment of the sustainability parameters	1		
Total	6		-

SECTION E. Verification findings

E.1. Compliance of the monitoring report with the monitoring report form

Means of verification	The monitoring report latest version /3/ submitted by the PP have been the basis for starting the verification process. RINA confirms that the Monitoring report is based on the currently valid GS4GG MR template /9/ .
Findings	NA
Conclusion	RINA verified that the monitoring report was completed in accordance with the GS4GG-MR-FORM - Monitoring report form, including its Attachment: Instructions for filling out the monitoring report form, version 1.1 /9/ .

E.2. Remaining forward action requests from validation and/or previous verification

Based on the design renewal review of the Gold Standard Foundation [/28/](#) validation report [/2/](#), there is 1 FAR.

FAR#1: The VVB shall include local expert/team member having local language knowledge during next verification to ensure about the local stakeholders comments and opinions about the project and to check if there is any grievance.

Response#1: Remote audit has been conducted on 15/04/2025 with local TL whose from Turkey so language is Turkish and so interviews has been carried out in local language so there is no necessity for local expert.

FAR#2: In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule:

5.1.39: Transparent, annual update reports need to be provided for Projects that have achieved the Project Design Certification stage. An annual report shall be submitted for each monitoring year by end of next calendar year for which verification is not completed. If a verification is in progress but not completed, then an Annual Report is still required by the end of calendar year.

Response#2: Annual report for 2025 year has been uploaded to GS Assurance System.

FAR#3: In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule after Design Renewal Certification is achieved: 5.1.29: 1st verification shall be completed within two years after the certification is achieved. As per Site Visit and Remote Audit Requirements para 3.2.2, a physical site visit is mandatory during first verification.

Response#3: The latest physical site visit has been conducted on 10/07/2024, and it was conducted 3rd crediting period renewal. According to GS site visit requirements it is not mandatory to for validation and verification and also verification has been conducted within one year after CP renewal process and in the planning phase this verification has been determined as the last MP of 2nd CP so online audit has been carried out.

FAR#4: The VVB performing the verification in CP2 shall note that from 01/04/2017 to 24/11/2022 no carbon credit issuance during 2nd crediting period can be claimed by PP due to delay in the CP renewal.

Response#4: Because of the delay period MP is determined as 24/11/2022 to 31/03/2024.

E.3. Compliance of the project implementation with the registered project design document

Means of verification	The Monitoring Report for the project activity “Cataloluk HEPP”, /3/ submitted by the Elestaş Elektrik Üretim A.Ş have been the basis for the verification process. It was verified during remote site audit that the proposed project activity has been implemented and it is in operation in accordance with the project activity described in the revised registered PDD /1/. According to the revised registered PDD /1/. This is the 2 nd crediting period which started on 01/04/2017 and the project activity is a run-of-river type project built on Tekir Creek designed with a capacity of 9.84 MWm / 9.54 Mwe as confirmed through the electricity generation license /10/ hence project is small scale. The generated electricity is fed to the Türkiye national grid. The estimated net electricity production of the project is 31,990 MWh and the annual emission reductions are estimated to be 14,766 tCO ₂ per year as confirmed through the revised registered PDD /1/ and validation report /2/.
Findings	NA
Conclusion	RINA confirms that the above MR is based on the currently valid MR template /8/ and is completed in accordance with the applicable guidance document /8/. Based online audit and checking the above documents, RINA confirms that the project activity has been implemented and it is in operation as described above in accordance with the project activity in the revised registered PDD /1/.

E.4. Post-registration changes**E.4.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline**

Not available.

E.4.2. Corrections

Not available.

E.4.3. Changes to the start date of the crediting period

The second crediting period is valid for seven years, from 01/04/2017 to 31/03/2024. However, as per Principles and Requirements, 5.1.46, Delay in the completion of re-validation beyond the last date of current certification cycle shall result in a reduction of any issuance of Certified Products and/or Impact Statements available during following certification cycle (for example, a delay of 1 year beyond the first cycle shall mean that no Certified Impact Statements shall be issued for the period of delay). Hence, The PP will not claim any GS VER for the date 01/04/2017 - 24/11/2022.

E.4.4. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

Not available.

E.4.5. Changes to the project design of a registered project activity

Not available

E.4.6. Types of changes specific to afforestation and reforestation project activities

Not available

E.5. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The project applies the approved methodologies AMS-I.D. Grid connected renewable electricity generation, version 18 /6/. The following tools are also applicable to the project activity: Tool to calculate the emission factor for an electricity system, version 07.0 /9/;
Findings	NA
Conclusion	The monitoring plan in the revised registered PDD /1/ is in accordance with the monitoring methodology AMS-I.D. Grid connected renewable electricity generation, version 18 /6/.

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The parameters were available at the validation stage, which do not need to be monitored during the crediting period, as per the revised registered PDD:			
	DATA/ PARAMETER	Source of data	Reported value for the project period	Assessment/ Observation
	Combined Margin Emission Factor	Calculation	0.4616 tCO ₂ /MWh	As per the approved methodology AMS-I.D - version 18 the combined emission factor has been determined using the ex-ante option and so it is not requested to monitor and recalculate the emission factors during the crediting period. The combined emission factor is determined to be 0.4616 tCO ₂ /MWh in the revised registered PDD /1/ and validation report /2/ .
Findings	NA			
Conclusion	Data and parameters fixed ex-ante are in accordance with the registered revised PDD /1/ .			

E.6.2. Data and parameters monitored

Means of verification	The following parameters are monitored in accordance with the revised registered PDD /1/ . The only monitoring parameter is “Quantity of net electricity generation supplied by the project plant to the grid in year y (EG _{PJ, facility, y})” as per the registered monitoring plan presented in the revised registered PDD /1/ . The parameter is monitored continuously as “MWh” by 2 electricity meters (main-back up) that are located at the project area.		
	Please see details for electricity meters below:		
	Çataloluk HEPP	Electricity Meter (Main)	Electricity Meter (Back-up)
	Manufacturer	ITRON	ITRON
	Model	SL761X	SL761X
	Serial number	84051677	84051678
	Date of installation	07/11/2018	07/11/2018
	Test Date	28/03/2018	28/03/2018
	Calibration Frequency	10 years	10 years
	Calibration Due	07/11/2028	07/11/2028
	Net electricity generation will be measured by two meters for all locations which are sealed by Distribution Company. The meters comply with EMRA (Energy Market Regulatory Authority) regulation /15/ . The accuracy class of the meters defined and confirmed as 0.5s are in line with the “Communiqué for Measurement Devices used in the Electricity Market” /14/ as explained in the PDD /1/ . The maintenance and calibration of meters are under Distribution Company responsibility. If any major discrepancy occurs between the two meters, Distribution Company performs necessary calibration. The electricity meters are sealed by TEİAŞ as confirmed during the on-site audit with the pictures of electricity meters. Periodical calibration or maintenance has been fixed as once in 10 years. There is only one test report because in the connection agreement signed between the Project Owner and TEİAŞ, there is no such a statement for conducting tests to		

	meters in a regular time period. All meters have the accuracy of 0.5s as confirmed through online audit and calibration performed by producer and examined via first index protocol /16/. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” /14/. The electricity meters are sealed by Distribution Company as confirmed via online audit. According to the monitoring plan in the registered PDD /1/ and in the monitoring report, estimated ($EG_{PJ, facility, y}$)” and the following sustainability parameters (SDGs) are monitored. ($EG_{PJ, facility, y}$)” Quantity of net electricity generation supplied by the project plant to the grid (starting from 25/11/2022 to 31/03/2024) as follows; $EG_{PJ, facility, 2022}$ = 968/20 MWh $EG_{PJ, facility, 2023}$ = 23,308.27 MWh $EG_{PJ, facility, 2024}$ = 11,074.47 MWh Total = 35,350.93 MWh for MP. Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (APj) value measured as 233,567.93 m² for this MP. The details of verified calculation are provided by the PP via calculation spreadsheet /7/. Actual SDGs : SDG 13: Emission Reduction: 16,311 tCO₂ for MP total. SDG 7: Affordable and Clean Energy: 35,350.93 MWh MP total. SDG 7: Balance of payments: Approximately consumption of 7,389,43 m³ of natural gas is expected to be avoided corresponding to 20,678,232 TL annually. SDG 7: Air Quality: SO₂ emission reduction is calculated as 284.41 tons per year. NO_x emission reduction is calculated as 103.61 tons per year SDG 8: Decent Work and Economic Growth: Quantitative Employment: 7 people working in the plant. Quality Employment: 7 employees work at the plant. All employees at the plant are provided with health and safety issues in the monitoring period. The following parameters have been monitored in accordance with the monitoring plan in the registered PDD /1/ and the monitoring report /3/. The actual values of SDGs achieved during this monitoring period have been presented for the following sections of this report. 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
Findings	NA
Conclusion	RINA's opinion that the monitoring of the project activity has been carried out in accordance with the monitoring plan in the revised PDD /1/ .

E.6.3. Implementation of sampling plan

Means of verification	N/A
Findings	N/A
Conclusion	N/A

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	Distribution Company is responsible for calibration and maintenance of the devices as per the revised registered PDD. The project owner has no control on the meters since the meters are sealed by the Distribution Company. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. During this monitoring period no discrepancy had occurred.		
	The meters (main and spare) were controlled by Distribution Company confirmed through first index protocol /16/. The periodical controls of these meters will be done in line with the equipment requirements and through the period defined by national metrology institutes country by country and for Türkiye this period is defined as 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /15/.		
	During remote site audit assessment, it was confirmed that the meters are in place and functions well and no breakdown has been recorded. The specification and calibration report details of electricity meters is provided below:		
	Çataloluk HEPP	Electricity Meter (Main)	Electricity Meter (Back-up)
	Manufacturer	ITRON	ITRON
	Model	SL761X	SL761X
	Serial number	84051677	84051678
	Date of installation	07/11/2018	07/11/2018
	Test Date	28/03/2018	28/03/2018
	Calibration Frequency	10 years	10 years
	Calibration Due	07/11/2028	07/11/2028
Findings	NA		
Conclusion	RINA's opinion that the monitoring of the project activity has been carried out in accordance with the monitoring plan in the revised registered PDD /1/.		

E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The baseline emissions include the CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, multiplying the electricity supplied to the grid (MWh) with the combined margin CO₂ emission factor for grid connected power generation in year. $BE_y = (EG_y - EG_{baseline}) \times EF_{grid,CM,y}$ Where: BE_y = Baseline emissions in tonnes CO₂e EF_{grid, CM,y} = Combined margin CO₂e 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" [tCO₂e/MWh]. EG_y = Net electricity supplied to the Grid in MWh y = Refers to a given period Baseline emission for this monitoring period= 35,350/93 MWh * 0.4616 tCO₂e/MWh = 16,311 tCO₂e. The details of verified calculation are provided by the PP via calculation spreadsheet /7/.
Findings	NA
Conclusion	RINA verified that the baseline emissions were calculated in accordance with the revised registered PDD and methodology "AMS-I.D. Grid connected renewable electricity generation, version 18" /6/.

E.8.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	The power density of the project activity (PD) is calculated as follows: $PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}}$ Where: PD = Power density of the project activity (W/m²) 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 reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m²) A_{BL} = Area of the reservoir measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m²). For new reservoirs, this value is zero. Although about half of the reservoir area is already river bed, A_{BL} has been assumed as zero. A_{PJ} had been estimated as 233,567.93 m² in the as per the reservoir map For proposed project HEPP, Cap_{PJ} = 9,540,000 W Cap_{BL} = 0.0 W A_{PJ} = 233,567.93 (m²)¹ A_{BL} = 0.0 (m²) Therefore, PD is calculated as; $PD = \frac{9540000 - 0}{233567.93 - 0}$ PD = ~41 W/m²
Findings	NA
Conclusion	The proposed project activity involves the generation of electricity by a hydroelectric power plant which has power density higher than 10 W/m² therefore emissions from reservoir is ignored as per the applied methodology. Since 41 W/m² is greater than 10 W/ m², project emissions are considered 0. Since RINA verified that the project emissions were assumed 0 in accordance with the revised registered PDD /1/ and methodology AMS-I.D - version 18 /6/

E.8.3. Calculation of leakage GHG emissions

Means of verification	The leakage emissions are assumed to be zero as per the AMS-I.D - version 18 /6/ as defined in the revised registered PDD /1/. Since the project and leakage emissions are zero, the emission reduction equals to baseline emissions.
Findings	NA
Conclusion	Leakage was considered as zero in accordance with the applied methodology /6/.

E.8.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	According to the applied methodology “AMS-I.D. Grid connected renewable electricity generation, version 18” /6/, the emission reductions have been calculated based on the following formula: Emission reductions are calculated as follows /7/: $ER_y = BE_y - PE_y - LE_y$ Where:
------------------------------	--

	ER_y = Emission reductions in year y (t CO₂/yr). BE_y = Baseline emissions in year y (t CO₂/yr). PE_y = Project emissions in year y (t CO₂/yr). LE_y = Leakage emissions in year y (t CO₂/yr). Baseline emission for this monitoring period= 35,350.93 MWh * 0.4616 tCO₂e/MWh = 16,311 tCO₂e. The details of verified calculation are provided by the PP via calculation spreadsheet /7/.
Findings	NA
Conclusion	The emission reduction calculations provided in the spreadsheet /7/ have been verified to be correct and in line with the revised registered PDD /1/ and applied methodologies /6/ .

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in revised registered PDD

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report are equivalent to 16,311 tCO ₂ . The reported emission reductions are 18.2% lower than the estimated emission reduction of 19,945 tCO ₂ for the period 25/11/2022 - 31/03/2024 (both days included) as per the registered PDD /1/ due to incoming flow rate. The calculation is verified through calculation spreadsheet /7/ .
Findings	NA
Conclusion	The actual emission reduction is lower than the estimated reduction given in the registered PDD /1/ . The reason of the difference between the actual and estimation emission reduction is explained related to incoming flow rate.

E.8.6. Remarks on difference from estimated value in revised registered PDD

Means of verification	The reported emission reductions are 16,311 tCO ₂ which are 18.2% lower than the estimated emission reduction of 19,945 tCO ₂ for the period 25/11/2022 - 31/03/2024 (both days included) as per the registered PDD /1/ due to incoming flow rate. The calculation is verified through calculation spreadsheet /7/ .
Findings	NA
Conclusion	The actual emission reduction is lower than the estimated reduction given in the registered PDD /1/ . The reason of the difference between the actual and estimation emission reduction is explained related to incoming flow rate.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report Version 09 of 02/09/2025 /3/ is equivalent to 16,311 tCO ₂ . The calculation is verified through calculation spreadsheet /7/ .
Findings	NA
Conclusion	The actual emission reduction is lower than the estimated reduction given in the registered PDD /1/ . The reason of the difference between the actual and estimation emission reduction is explained related to incoming flow rate.

E.8.8. Assessment of the sustainability parameters

Means of verification	The assessment of the monitored parameters is described in the tables below:				
	Data variable		Source of Data	Reported value for the project period	
	Climate Action (SDG 13) Amount of CO ₂ emission		Electricity Generation Calculation Spreadsheet /7/ /12/	Emission reduction: 16,311 tCO ₂ Combined Emission Factor: 0.4616 tCO _{2e} /MWh	
	Assessment				
	<u>Amount of CO₂ emissions:</u> The parameter is monitored once a year during crediting period by calculation with the emission factor and electricity generation. The net electricity generation values were controlled by the evidence of Distribution Company screenshot records and invoices /12/ . The values for the monitoring period are verified through supporting documents and calculations /7/ .				
	Data variable		Source of Data	Reported value for the project period	
	Quantity of net electricity generation supplied by the project plant to the grid in year y (SDG 7)		Electricity meters Electricity Generation and Calculation /7/	35,350.93 MWh net electricity generation for MP.	
	Assessment				
	EG _{PJ,facility,y}) This parameter is monitored by electricity meters and in this monitoring period totally 35,373.38 MWh is measured /7/ /12/ and calculated for the net electricity generation. The net electricity generation values were controlled by the evidence of Distribution Company screenshot records and invoices /12/ . The values for the monitoring period are verified through supporting documents and calculations /7/ .				
	Data variable		Source of Data	Reported value for the project period	
	Decent Work and Economic Growth (SDG 8): 8.8.1 Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status		Certificates and attendance lists of the trainings. /17/	7 employees work at the plant. All employees at the plant are provided Health & Safety Trainings <table><tr><td>Work Health and Safety Training"</td><td>16/10/2024 17/10/2024</td></tr></table>	Work Health and Safety Training"
Work Health and Safety Training"	16/10/2024 17/10/2024				
Assessment					
<u>Trainings:</u> The parameter is monitored on a year base by checking the Occupational Health & Safety training records/certificates of the trainings. All the trainings are provided to the verification team /17/ and the details are presented in the MR /3/ .					
Data variable		Source of Data	Reported value for the project period		
Decent Work and Economic Growth (SDG 8) 8.5.2 Unemployment rate, by sex, age and persons with disabilities		SGK Records and Recruitment Documents /11/	7 employees are hired		

Assessment

Employment Contracts and Rate of Local People: This parameter is monitored on each verification by the Registration Document /11/ of employees. It was confirmed that 7 employees are hired by the project.

Data variable	Source of Data	Reported value for the project period
Balance of Payments Currency saving due to avoided fuel import	Natural gas price data in 2022 Natural gas consumption data in 2022 from TEIAS Electricity generation data in 2022 from TEIAS	Approximate consumption of 7,389,430 m ³ of natural gas is expected to be avoided corresponding to 20,678,232 TL annually. Calculated during this monitoring period with the actual electricity generation and the data from TEIAS for this project activity.

Assessment

Balance of payments: Calculation of payment balance shared through excel sheet and checked by VVB.

Data variable	Source of Data	Reported value for the project period
Air Quality SO ₂ emissions by thermal power plants-NO _x emissions by thermal power plants	National Electricity Generation in 2021 from TEIAS, NO _x and SO ₂ emissions from UNFCCC documents	SO ₂ emission reduction corresponding to 35.37 GWh of actual generation for this monitoring period is calculated as 284.41 tons per year. NO _x emission reduction corresponding to 35.37 GWh of actual generation for this monitoring period is calculated as 103.61 tons per year. The 2020 values of emission factors and electricity. Calculated for this monitoring with the actual generation in this MP and the data from TEIAS for this project activity.

Assessment

SO₂ and NO_x emissions: Calculation of payment balance shared through excel sheet and checked by VVB.

Data variable	Source of Data	Reported value for the project period
9.5 Hazardous and Non-hazardous waste Waste Oil	Hazardous wastes are collected and treated by the third authorized party in accordance with local laws and related regulations	Waste oil is managed and disposed of in accordance with Regulation #26952, using accredited abatement companies, with proper collection from equipment and assessment of disposal

			methods during site visits. Verification of disposal records and compliance will be conducted once during each monitoring period.
	Assessment		
	Disposal of waste oil: The parameter is monitored once for each monitoring period by invoices of hazardous waste acceptance evidence to licensed company. The waste declaration form for the year 2023 has been provided to VVB.		
	Data variable	Source of Data	Reported value for the project period
	Safeguarding Principle 9.4: Release of pollutants Water Quality and Quantity	Waste disposal records and truck invoices	There are no records for this monitoring period.
	Assessment		
	Disposal of the wastewater: Wastewater will be collected in a septic tank and then transported to a treatment plant where it will be treated to meet standards in accordance with guidelines and national regulations.		
	Data variable	Source of Data	Reported value for the project period
	Safeguarding Principle 8.1: Impact on Natural Water Patterns/Flows	Release of minimum flow to protect aquatic life.	There are no records for this monitoring period.
	Assessment		
	There are no records for this monitoring period.		
	Data variable	Source of Data	Reported value for the project period
Safeguarding Principle 9.10: High Conservation Value Areas and Critical Habitats (Minimum flow of water)	Installed stations and assessed the correctness of the flow rate measurements	There are no records for this monitoring period.	
Assessment			
There are no records for this monitoring period.			
Findings	NA		
Conclusion	RINA verified that the GS indicators described in the monitoring report /3/ are accurate and real. Data to cross check the monitored parameters are available at the office of the company. Also, the registers of the sustainability indicators were available during the online audit.		

SECTION F. Internal quality control

The draft final verification report before being submitted to the client is subjected to an independent technical review to confirm that all validation activities has been completed according to the pertinent RINA's procedures. The technical review will be/is performed by a technical reviewer(s) qualified in accordance with the RINA's qualification procedure.

SECTION G. Verification opinion

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity Cataloluk HEPP, GS Registration Reference No. 872 for the period 25/11/2022 - 31/03/2024 (both days included), with regard to the relevant GS4GG requirements and principles [/4/](#). The project participants are responsible for the preparation for the collection of data in accordance with the monitoring plan and the reporting emission reductions from the project. It is RINA's responsibility to express an independent verification opinion on the reported emission reductions from the project and VVBs not express any opinion on the selected baseline scenario or on the validated and revised registered PDD. Based on documented evidences and corroborated by an on-site assessment RINA can confirm that: (i) the project has been implemented and operated as per the revised registered PDD; (ii) the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable GS requirements and principles; (iii) the monitoring is in place as per the applied baseline and monitoring methodology; (iv) the monitoring complies with the registered monitoring plan; (v) the monitoring plan in the revised registered PDD is as per the applied baseline and monitoring methodology.

SECTION H. Certification statement

It is RINA's opinion that the GHG emission reductions (GS VERs) stated in the latest version of monitoring report (Version 5 of 16/05/2025) [/3/](#) for the project activity "Cataloluk HEPP" for the period 25/11/2022 - 31/03/2024 both days included) are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology AMS-I.D. Grid connected renewable electricity generation, version 18 [/6/](#). Hence RINA is able to certify that the emission reductions from the project during the monitoring period 25/11/2022 to 31/03/2024 (both days included) amount to 16,311 tCO₂ (GS-VERs) totally. For 24/11/2022 to 31/12/2022 ER is 446 tCO₂ (GS-VERs); 01/01/2023 to 31/12/2023 ER is 10,754 tCO₂ (GS-VERs); 01/01/2024 to 31/03/2024 ER is 5,111 tCO₂ (GS-VERs).

Period	Amount achieved during this monitoring period (tCO ₂ e)
2022 Vintage 25/11/2022-31/12/2022	446
2023 Vintage 24/12/2023-31/12/2023	10,754
2024 Vintage 01/01/2024-31/12/2024	5,111
Total	16,311

Appendix 1.**Abbreviations**

Abbreviations	Full texts
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CER(s)	Certified Emission Reduction(s)
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CRT	Coordination and Technical Control Staff
DCI	Certification Division of RINA Services Spa
DNA	Designated National Authority
VVB	Validation Verification Body
EB	Executive Board
EPIAS	Energy Market Operation Inc.
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS4GG	Gold Standard for Global Goals
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoV	Means of Verification
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
RINA	RINA Services Spa
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
TEIAS	Turkish Electricity Transmission Company (Türkiye Elektrik İletim A.Ş.)
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard



CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE

Si attesta che il sig.:
We declare that Mr:

Mehmet ERDOGAN

è qualificato come¹:
is qualified as:

TL – VAL⁴ – VER – TEC – REG-EXP³ – ITR

nello schema²:
for the scheme:

VCS – CCB – GS4GG

per le seguenti aree tecniche:
for the following technical areas:

1.1 – 1.2 – 9.2 – 13.1 – 13.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
3.1	Energy demand	3
9.2	Iron, steel and Ferro-alloy production	9
13.1	Waste handling and disposal	13
13.2	Manure	13

in accordo alle istruzioni dell'Unità responsabile (OU) per sostenibilità & cambiamenti climatici.
in accordance with the instructions of the responsible unit (OU) for the sustainability & climate change.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	24/03/2023	First Issue
1	12/04/2023	GS4GG extension
2	24/07/2023	GS4GG VAL extension
3	10/12/2023	TEC SS3 extension
4	31/01/2024	ITR extension

Il Responsabile di schema
Scheme Manager

¹

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
REG-EXP: Regional Expert
ITR: Independent Reviewer
DET: Déterminer

²

CDM: Clean Development Mechanism
VCS: Verified Carbon Standard
GS4GG: Gold Standard for Global Goals
SCS: SocialCarbon Standard
JI: Joint Implementation
ISO14064-2: International standard 14064 part 2
UER: Upstream Emission Reduction
CCB: The Climate, Community & Biodiversity Alliance

³ Turkey

⁴ For GS4GG only

RINA Services S.p.A. è accreditata da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS.
RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS4GG Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports

GHG_QUAL_CERT_EN(06-2021)

Page 1 of 2

CERTIFICATO DI QUALIFICA PER GLI SCHEMI VOLONTARI*
QUALIFICATION CERTIFICATE FOR VOLUNTARY SCHEMES*

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Thais De Lima Carvalho

è qualificato come:
is qualified as:

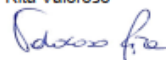
TEC, VAL, VER, TL, ITRP

per le seguenti aree tecniche:
for the following technical areas:

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
2.1	Electricity distribution	2
13.1	Solid waste and wastewater	13

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	19/07/2016	First issue with new template (this certificate is linked to CDM qualification)

Responsabile di schema
Scheme Leader
Rita Valoroso



*SCHEMI VOLONTARI/ VOLUNTARY SCHEMES: ACR American Carbon Registry, CCB The Climate, Community & Biodiversity Alliance, GS Gold Standard, JI Joint Implementation, SCS Social Carbon Standard, VCS Verified Carbon Standard.

TEC: Technical expert; VAL: Validator; VER: Verifier; TL: Team leader; FIN EXP: Financial Expert; ITRP: Independent technical reviewer

RINA Services S.p.A. è accreditato/riconosciuto da

RINA Services S.p.A. is accredited /recognized by

UNFCCC	quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects
VCSA	per condurre la Validazione e la Verifica di Progetti VCS to carry out Validation and Verification of VCS Projects
GS Foundation	per condurre la Validazione e la Verifica di Progetti GS to carry out Validation and Verification of GS Projects
Ecologica Institute	per condurre la Validazione e la Verifica di rapporti SCS to carry out Validation and Verification of SCS Reports
American Carbon Registry ACR	per condurre la Validazione e la Verifica di Progetti ACR to carry out Validation and Verification of ACR projects
The Climate, Community & Biodiversity Alliance CCB	per condurre la Validazione e la Verifica di Progetti co-benefit CCB to carry out Validation and Verification of co-benefit CCB projects

Appendix 3.

Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	GTE KARBON SÜRDÜRÜLEBİLİR ENERJİ EĞİTİM DANIŞMANLIK VE TİC. A.Ş	GS-PDD for “Cataloluk HEPP” in Türkiye	Version 09 of 01/09/2023	Project participant
2	Carbon check	Re-Validation report for Cataloluk HEPP	version 3.0 issued on 21/08/2023	Project participant
3	GTE KARBON SÜRDÜRÜLEBİLİR ENERJİ EĞİTİM DANIŞMANLIK VE TİC. A.Ş	GS4GG Monitoring Report for “ Cataloluk HEPP ”	Version 09 of 02/09/2025 Version 08 of 25/08/2025 Version 07 of 18/08/2025 Version 06 of 13/06/2025 Version 05 of 16/05/2025 Version 04 of 15/05/2025 Version 03 of 09/05/2025 Version 02 of 07/05/2025 Version 01 of 11/03/2025	Project participant
4	Gold Standard Foundation	Gold Standard for Global Goals Principles & Requirements	version 2.0 of 12/11/2024	Publicly available
5	CDM Executive Board	Clean Development Mechanism Validation and Verification Standard	version 03 of 09/09/2021	Publicly available
6	CDM Executive Board	AMS-I.D. Grid connected renewable electricity generation	version 18 of 28/11/2014	Publicly Available
7	GTE KARBON SÜRDÜRÜLEBİLİR ENERJİ EĞİTİM DANIŞMANLIK VE TİC. A.Ş	ER_Calculations_Çataloluk HEPP_Revised_16052025_Verification	Version 05 of 02/09/2025 Version 04 of 25/08/2025 Version 03 of 09/05/2025 Version 02 of 07/05/2025 Version 01 of 11/03/2025	Project participant
8	Gold Standard Foundation	Gold standard for the global goals Monitoring Report Template	version 1.1 of 14/10/2020	Publicly available
9	CDM Executive Board	Methodological Tool “Tool to calculate the emission factor for an electricity system”	version 07.0 of 31/08/2018	Publicly available
10	Energy Market Regulatory Authority	Electricity Generation License EÜ/8151-1/04112	date 25/10/2018	Project participant
11	Social Security Institution	Recruitment Document for Employees	Date 25/04/2024	Project participant
12	TEIAS	Monthly Meter Reading Protocols	MP	Project participant

13	Enerji Piyasaları İşletme A.Ş.(EPIAS)	Monthly Electricity Records within the Monitoring Period	MP	Project participant
14	Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	date 22/03/2003 of	Publicly available
15	Energy Market Regulatory Authority	Regulation of Metering and Testing of Metering Systems	date 24/07/1994 of	Publicly available
16	TEIAS	1 st Index Protocol of the Electricity Meters	date 07/11/2018 of	Project participant
17	Kahramanmaraş OSGB	Health and Safety Training for all Employees	Date of 16-17/10/2024	Project participant
18	GS4GG	Desing Renewal Review under Gold Standard for the Global Goals	Submitted on 09/09/2024	Project participant
19	VCS Website	https://registry.verra.org/app/search/VCS/All%20Projects	Retrieved on: 16/04/2024	Project participant
20	GCC Website	https://projects.globalcarboncouncil.com/pages/submitted_projects https://projects.globalcarboncouncil.com/pages/approved_projects	Retrieved on: 16/04/2024	Project participant
21	Elestaş Elektrik Üretim A.Ş	Şahinkayası & Çağlayan Village	Logbook	seen onsite visit

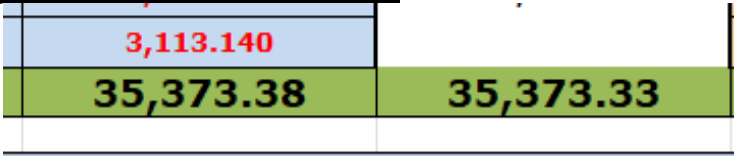
Table 1. Remaining FAR from previous verification

FAR ID	1	Section no.		Date:
Description of FAR				
As per GS4GG principles & requirements, Delay in the completion of re-validation beyond the last date of current certification cycle shall result in a reduction of any issuance of Certified Products and/or Impact Statements available during following certification cycle (for example, a delay of 1 year beyond the first cycle shall mean that no Certified Impact Statements shall be issued for the period of delay). The complete documents were submitted on 09 Sep 2024. Thus the PD could claim realized ERs starting from 09 Sep 2024 (not 10 Jul 2024 as stated in the PDD) in the renewed crediting period but CP3 start on 01 Apr 2024.				
Project participant response				Date:
The PP will not claim any GS VER for the date 01/04/2024 - 08/09/2024, as was explained in the registered PDD for the 3 rd Crediting Period.				
Documentation provided by project participant				
VVB assessment				Date: 16/05/2025
Verified.				

Table 2. CR from this verification

CR ID	1	Section no.		Date: 22/04/2025
Description of CR				
Please share missing supporting documents; -SDG Impact tool -Latest validation report -Training documents -Latest performance review report -Verification report belongs to previous MP				
Project participant response				Date:
The mentioned missing supporting documents have been provided.				
Documentation provided by project participant				
GS872 Çataloluk HEPP_SDG Impact Tool_v2-05122024.xlsx, FVR_GS_RCP REPORT_2024TQMDCE273_Cataloluk HPP_Rev 2.0Aa_29122024.pdf, Training Records-HSE.pdf, GS872-GS4GG Design Renewal Review-FINAL_17012025.pdf, (1)Verification Report_2nd monitoring period_01.06.2012 to 30.09.2015_rev1.3Aa.pdf				
VVB assessment				Date: 09/05/2025
Verified.				

CR ID	2	Section no.		Date: 22/04/2025
Description of CR				
Please share first index protocols and test reports belonging to electricity meters.				
Project participant response				Date:
The first index protocol and test reports belonging to the current electricity meters have been provided.				
Documentation provided by project participant				
First Index Protocol.pdf and Meter Test Reports.pdf				
VVB assessment				Date: 09/05/2025
<u>Shared test report does not belong to current electricity meters. Please share all test reports implementation and include information in the MR accordingly.</u>				
Project participant response				Date:
The shared test report belongs to the current electricity meters.				
Documentation provided by project participant				
Meter Test Reports.pdf				
VVB assessment				Date: 14/05/2025
<u>Shared electricity meter replacement report does not belong to current electricity meters. Also, PP has to share all test reports belonging to this MP. Test reports must be conducted every 2 years.</u>				
Project participant response				Date:
The shared test report belongs to the current electricity meters as was already stated by the PO on the previous round, via email sent to VVB. As per the Connection Agreement between the PA and TEİAŞ, there is no need to conduct tests to meters every 2 years. The agreement document has been provided again.				
Documentation provided by project participant				
Çataloluk HES Bağlantı Anlaşması(connection).pdf				
VVB assessment				Date: 16/05/2025
<u>PP has to mention the reason of not conducting test for electricity meters every two years under section C and D.2. There is no information about this in the MR.</u>				
Project participant response				Date:
The reason has been mentioned in sections C and D.2 of the MR.				
Documentation provided by project participant				
VVB assessment				Date: 16/05/2025
Verified.				

CR ID	3	Section no.		Date: 22/04/2025
Description of CR				
- Electricity generation data and emission reduction results in the MR are not in line with the excel sheet. Please revise accordingly. - EG and ER per annum calculations can not be controlled due to hidden cells on excel sheet. Please revise accordingly. - Total electricity generation for each year should be rounded down.				
Project participant response				Date:
- The electricity generation data and emission reduction results have been made consistent throughout MR and ER sheet. - The hidden cells have been removed. - The total electricity generation for each year cannot be rounded down, however, the annual emission reduction values can be and have been rounded down.				
Documentation provided by project participant				
VVB assessment				Date: 09/05/2025
<u>ER and electricity generation results in the MR are still not inline with the excel sheet. Total MP achievement should be mentioned.</u> <u>While calculating B53, the cell N50 is hidden. Please revise accordingly.</u> <u>Verified.</u>				
Project participant response				Date:
- The ER and EG results in the MR are in line with the ER sheet. The total MP achievement has been mentioned in the MR as well. - The hidden cells have been removed, and the ER has been revised accordingly.				
Documentation provided by project participant				
VVB assessment				Date: 14/05/2025
<u>ER and electricity generation results in the MR are still not inline with the excel sheet. Total MP achievement should be mentioned.</u> <u>Verified.</u>				
Project participant response				Date:
The ER and EG values have only been mentioned as in total. The MR has been revised.				
Documentation provided by project participant				
VVB assessment				Date: 16/05/2025
<u>Final electricity generation results are not the same in the excel sheet. Do not need to round down electricity generation results, only round down final ER calculation for each year. Please revise accordingly.</u>				
				
<u>In the registered PDD (version 09 dated 01/09/2023) estimated ER is 14,766 tCO2e however this value is taken 14,767 tCO2e in the excel sheet. Please revise accordingly.</u>				
Project participant response				Date:
- The cell I43 has been revised accordingly. The values are now in line with each other. The values have been revised in the MR as well. - The estimated ER in the excel sheet has been revised accordingly. The values in the MR has been revised as well.				
Documentation provided by project participant				
VVB assessment				Date: 16/05/2025
<u>Verified.</u>				

CR ID	4	Section no.		Date: 22/04/2025
Description of CR				
Please demonstrate SO2 and NOx emission reduction calculation on excel sheet.				
Project participant response				Date:
The ER excel sheet which is prepared for the 3 rd crediting period has been provided.				
Documentation provided by project participant				
GS872_ER_Calculation_Sheet_Çataloluk_v2.0_19072024.xlsx				
VVB assessment				Date: 09/05/2025
Provided results are estimated amounts. Please calculate accordingly this MP.				
Project participant response				Date:
The actual amounts for this monitoring period have been calculated in the ER, and reflected to the MR as well.				
Documentation provided by project participant				
VVB assessment				Date: 14/05/2025
Verified.				

CR ID	5	Section no.		Date: 22/04/2025
Description of CR				
PD shall include further explanation under section E.5.1 and E.6 by including numbers of days of this MP.				
Project participant response				Date:
The sections E.5.1 and E.6 have been revised with further explanation.				
Documentation provided by project participant				
VVB assessment				Date: 09/05/2025
Please include days of this MP.				
Project participant response				Date:
The days of this MP has been included.				
Documentation provided by project participant				
VVB assessment				Date: 14/05/2025
Verified.				

CR ID	6	Section no.				Date: 22/04/2025			
Description of CR									
Please revise and check all electricity generation data on excel sheet according to EPIAŞ records.									
Exp: August 2023 data									
EPIAŞ Screenshot									
Fatura Dönemi	Başlangıç Tarihi	Bitiş Tarihi	Versiyon Dönemi	Veriş (MWh)	Çekiş (MWh)	Kayıplı Veriş (MWh)			
01/08/2023	01/08/2023	31/08/2023	01/08/2023	745,4800	0,5700	742,3787			
Excel Sheet									
<table><tr><td>745.480</td><td>0.570</td><td>744.910</td></tr></table>							745.480	0.570	744.910
745.480	0.570	744.910							
Project participant response					Date:				
The electricity generation data from EPIAS has been completely revised with the new monthly generation data in the ER excel sheet.									

Documentation provided by project participant	
New monthly EPIAS data screenshots	
VVB assessment	Date: 09/05/2025
<u>EPIAS records are used for emission reduction calculation. Please revise this info through MR. Please check registered PDD as well. This info must be in line with registered PDD.</u>	
Project participant response	Date:
Documentation provided by project participant	
The explanation in this MR has been revised. It was in line with the registered PDD before. However, the information in the PDD has been expressed wrongly.	
VVB assessment	Date: 13/05/2025
<u>EPIAS records are used for emission reduction calculation. Please revise this info through MR.</u>	
records data by site employee). The emission reduction calculations are done by AEDAŞ records. The records of AEDAŞ are used for cross-check of the EPIAS values.	
Project participant response	Date:
The mentioned sentences have been revised in the MR.	
Documentation provided by project participant	
VVB assessment	Date: : 16/05/2025
<u>Verified.</u>	

Table 3. CAR from this verification

CAR ID		Section no.		Date:
Description of CAR				
Project participant response				Date:
Documentation provided by project participant				
VVB assessment				Date:

Table 4. FAR from this verification

FAR ID		Section No.		Date:
Description of FAR				
Project participant response				Date:
Documentation provided by project participant				
VVB assessment				Date:

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	10/06/2016	Initial publication.