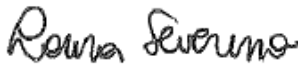




Verification and certification report form for GS project activities

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	CAMLICA II HEPP
GS Reference number of the project activity	1173
Version number of the verification and certification report	2.0Aa
Completion date of the verification and certification report	11/11/2024
Monitoring period number and duration of this monitoring period	1 th Monitoring Period of 2 nd Crediting Period 01/01/2022 - 31/12/2023 (both days included)
Version number of monitoring report to which this report applies	Version 0.4 of 06/11/2024
Crediting period of the project activity corresponding to this monitoring period	01/01/2022 - 31/12/2028 (Second CP)
Project participant(s)	HGG Enerji Üretim Anonim Şirketi (Private Entity, Project Owner)
Host Party	Türkiye
Sectoral scope(s), selected methodology(ies)	Sectoral scope 1: Energy Industries (Renewable-/non-renewable sources) ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 20.0
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the revised registered PDD	88,290 tCO ₂ (GS-VERs)
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	30,563 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 is started on 01/01/2022 and the project activity is a run-of-river type project built on river Zamantı was designed with a capacity of 17.88 MWm / 17.58 Mwe as confirmed through the electricity generation license /12/ hence project is large scale. The generated electricity is fed to the Türkiye national grid. The estimated net electricity production of the project is 89,558 MWh and the annual emission reductions are estimated to be 44,145 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. GHG Emissions Reduction & Sequestration product requirements have been applied. 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 at Çamlıca village, Yahyalı district in Kayseri Province. The nearest residential area is Çamlıca Village.

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 CAMLICA II HEPP for the period 01/01/2022 - 31/12/2023.

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 onsite 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 HGG Enerji Üretim Anonim Şirketi has performed the verification of the emission reductions reported for the project activity CAMLICA II HEPP, GS Registration Reference No. 1173 for the monitoring period 01/01/2022 - 31/12/2023 with regard to the relevant GS requirements and principles for project activities. The project was validated by Carbon Check (issued on 05/06/2023) /2/.

The GHG emission reductions are calculated on the basis of the approved methodology ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 20.0 /7/ and the monitoring plan included in the renewal registered PDD version 15 of 04/01/2023 /1/. In our opinion the GHG emission reductions reported for the project in the monitoring report Version 0.4 of 06/11/2024 /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 onsite audit, the verification team will interview the staffs of the GS team and check all records to confirm whether the monitoring plan 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: a. 0.5 per cent of the emission reductions/removals for project achieving a total emission reduction equal to or more than 500,000	Low	The project activity is a large-scale project activity achieving a total emission reduction of 300,000 tons of carbon dioxide equivalent per year or less (option c). The materiality threshold is 2%. There have not been any observed omission, misstatement, or material errors among the reviewed documents as checked and confirmed by the verification team and applied materiality threshold is 2% in line with values of the emission reductions during the current monitoring period. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.	

	tonnes of carbon dioxide equivalent per year b. 1 per cent of the emission reductions/removals for projects achieving a total emission reduction between 300,000 and 500,000 tonnes of carbon dioxide equivalent per year c. 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 d. 10 per cent of the emission reductions/removals for microscale projects			
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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 /14/ 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.

Level of materiality is ensured by application of “Guideline on the Application of Materiality in Verifications” version 02 and GS Validation and Verification Standard version 01.0. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling. RINA hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations.

SECTION D. Means of verification

D.1. Desk review

The monitoring report Version 0.4 of 06/11/2024 and previous versions /3/, the emission reduction calculations provided in the form of a spreadsheet version 0.3, of 05/04/2024 /8/, the approved baseline and monitoring methodology ACM0002, - Version 20.0 /7/ and all the documentation provided to support the monitoring period /1 – 27/, was assessed as part of the verification. In addition, the Project Design Document (PDD) version 15 of 04/01/2023 /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. Onsite audit

Duration of onsite audit: 26/01/2024				
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	Kayseri Yahyalı, Türkiye	26/01/2024	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.	Ü.	Caner	HGG Energy Elec. Eng.	26/01/2024	Implementation status of the project Monitoring equipment and operation Generated Electricity Monitoring of Gold Standard for Global Goal Parameters	Mehmet ERDOĞAN
2.	K.	Mikail	HGG Energy General Services and also Çamlıca stakeholder			
3.	K.	Ahmet	Çamlıca Village <i>Mukhtar</i>	26/01/2024	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.	K.	Salih	Çamlıca Village stakeholder			
5.	B.	Abdurrahman	Yeşilköy Village stakeholder			
6.	B.	Hasibe	Yeşilköy Village stakeholder			
7.	Ç.	Muhammet	HGG Energy General Services and also Yeşilköy stakeholder			

During onsite 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. Also decrease of water

amount has been discussed with stakeholders and it has been explained by climate change and irrigation near the dam area and it has been verified that agriculture is the main trade activity in near environment.

In addition to this, the VVB assessed that whether a comment book available at the most appropriate and publicly accessible location (Çamlıca and Yeşilköy 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 /23 /. 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			
Compliance of the project implementation with the revised registered PDD			
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			
Assessment of data and calculation of emission reductions or net removals	1	1	
Assessment of the sustainability parameters			
Total	1	1	-

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 review of the Gold Standard Foundation /24/19/ validation report /2/, there are 7 FAR.

FARs raised with Design Renewal Review

FAR#1: 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.

Response#1: Onsite audit was conducted on 26/01/2024 and planning to submit FVR until the end of 04/2024.

FAR#2: Validation site visit shall be resumed by VVB when Covid situation eases.

Response#2: The physical site visit was conducted on 26 January 2024.

FAR#3: In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule since Transition to GS4GG is finalized:

5.1.39: Transparent, annual update reports need to be provided for Projects that have achieved the Project Design Certification stage or have successfully transitioned to Gold Standard for the Global Goals. 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#3: Annual Report has been submitted on 28 December 2023 is approved by VVB.

FARs raised with Performance Review

FAR#1: In-line with § 5.1.39 to 5.1.44 GS4GG Principles and Requirements, GS VVB and PD shall consider the rule below for future monitoring activities:

5.1.39: An annual update report shall be provided to GS -when design certification is achieved- for each monitoring year by the end of next calendar year for which verification is not completed.

Response#1: Annual Report has been submitted on 28 December 2023 is approved by VVB.

FAR#2: Remote audit shall be resumed by GS VVB when Covid situation eases in the host country.

Response#2: The physical site visit was conducted on 26 January 2023.

FAR#3: As per Principle 4.3.5, records for hazardous waste disposal for 2020 and 2021 shall be verified during next verification by associated GS VVB. GS VVB shall provide its assessment opinion in this respect.

Response#3: Records for 2020 and 2021 are approved by VVB.

FAR#4: GS VVB shall compare the actual ERs with estimation value and verify the reason causing the difference regarding upstream projects and irrigation activities, other than weather conditions. In case the electricity generation is continuing > more than 40% less than ex ante estimation, GS VVB shall check how the factors incl. income support the project operation. Associated GS VVB shall provide its opinion in verification report during next monitoring period verification.

Response#4: Difference between ex ante and ex post calculation is %69 lower. As it is shared via DSI (General Directory of Meteorology Reports) for 2022 and 2023 it is seen that because of precipitation regime changes in Turkey precipitation amounts decrease dramatically. The reports are shared with VVB and reviewed. Because of turbinated water amount decrease electricity and ER amounts decrease dramatically. Because of electricity generation decrease the project's income from electricity sale will decrease. Thus project still need carbon sales revenue.

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

Means of verification	The Monitoring Report for the project activity “CAMLICA II HEPP”, /3/ submitted by the HGG Enerji Üretim Anonim Şirketi have been the basis for the verification process. It was verified during onsite 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/. The starting date of operation and 1st crediting period is 01/01/2022. According to the revised registered PDD /1/. This is the 2nd crediting period which is started on 01/01/2022 and the project activity is a run-of-river type project built on river Zamantı was designed with a capacity of 17.88 MWm / 17.58 Mwe as confirmed through the electricity generation license /12/ hence project is large scale. The generated electricity is fed to the Türkiye national grid. The estimated net electricity production of the project is 89,558 MWh and the annual emission reductions are estimated to be 44,145 tCO₂ 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 /9/ and is completed in accordance with the applicable guidance document /9/. Based on the onsite 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

Not available

E.4.4. Inclusion of a monitoring plan to a registered project activity

Not available

E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

Not available.

E.4.6. Changes to the project design of a registered project activity

Not available

E.4.7. 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 ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 20.0 /7/. The following tools are also applicable to the project activity: Tool to calculate the emission factor for an electricity system, version 07.0 /10/; “Tool for the demonstration and assessment of additionality”, version 07.0.0 of 23/11/2012 /11/.
Findings	NA

Conclusion	The monitoring plan in the revised registered PDD /1/ is in accordance with the monitoring methodology ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 20.0 /7/.
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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 monitor 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	0.4929 tCO ₂ /MWh	As per the approved methodology ACM0002 Version 20.0, 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 0.4929 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,grid,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:		
	Çamlıca HEPP	Electricity Meter (Main)	Electricity Meter (Back-up)
	Manufacturer	EMH	EMH
	Model	LZQJ-XC	LZQJ-XC
	Serial number	10773495	10773496
	Date of installation	15/02/2021	15/02/2021
	Date of Test	29/03/2022	29/03/2022
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 /16/. 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” /15/ 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 TEIAS 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. Since meters are sealed by Distribution Company, the project proponent cannot intervene with the devices. The testing of the meters are carried out once every			

	two years if available, as stated below table last test were conducted on 29/03/2022. The all meters have the accuracy of 0.5s as confirmed through onsite audit and calibration performed by producer and examined via first index protocol /17/. The accuracy class of the meters complies with the "Communiqué for Measurement Devices used in the Electricity Market" /15/. The electricity meters are sealed by Distribution Company as confirmed via onsite audit. According to the monitoring plan in the registered PDD /1/ and in the monitoring report, estimated ($EG_{PJ,grid,y}$) and the following sustainability parameters (SDGs) are monitored. ($EG_{PJ,grid,y}$) Quantity of net electricity generation supplied by the project plant to the grid (starting from 01/01/2022 - 31/12/2023) as follows; $EG_{PJ,grid, 2022} = 32,877$ MWh $EG_{PJ,grid, 2023} = 29,130$ MWh Total = 62,007 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 6,776 m² for this MP. The details of verified calculation are provided by the PP via calculation spreadsheet /8/. Actual SDGs : SDG 13: Emission Reduction: 30,563 tCO₂ for MP total. SDG 7: Affordable and Clean Energy: 62,007 MWh MP total. SDG 8: Decent Work and Economic Growth: Quantitative Employment: 12 people working in the plant. Quality Employment: 12 employees work at the plant. All employees at the plant are provided 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/. 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 was occurred.		
	The meters (main and spare) were controlled by Distribution Company confirmed through first index protocol /17/. 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 onsite 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:		
	Çamlıca HEPP	Electricity Meter (Main)	Electricity Meter (Back-up)
	Manufacturer	EMH	EMH
	Model	LZQJ-XC	LZQJ-XC
	Serial number	10773495	10773496
	Date of installation	15/02/2021	15/02/2021
Date of Test	29/03/2022	29/03/2022	
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= 62,007 MWh * 0.4929 tCO₂e/MWh = 30,563 tCO₂e. The details of verified calculation are provided by the PP via calculation spreadsheet /8/.
Findings	NA
Conclusion	RINA verified that the baseline emissions were calculated in accordance with the revised registered PDD and methodology "ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 20.0 /7/.

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 6,776 m² in the as per the reservoir map For proposed project HEPP, Cap_{PJ} = 17,580,000 W Cap_{BL} = 0.0 W A_{PJ} = 6,776 (m²)¹ A_{BL} = 0.0 (m²) Therefore, PD is calculated as; $PD = \frac{17,580,000 - 0}{6,776 - 0}$ PD = ~2,594 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 2,594 W/m² is far 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 ACM0002 Version 20.0 /7/

E.8.3. Calculation of leakage GHG emissions

Means of verification	The leakage emissions are assumed to be zero as per the ACM0002 Version 20.0 /7/ 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 /7/.

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 "ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources" - Version 20.0 /7/, the emission reductions have been calculated based on the following formula: Emission reductions are calculated as follows /8/: $ER_y = BE_y - PE_y - LE_y$
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¹ Measured from satellite maps and using Google Earth

	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= 62,007 MWh * 0.4929 tCO₂e/MWh = 30,563 tCO₂e. The details of verified calculation are provided by the PP via calculation spreadsheet /8/.
Findings	NA
Conclusion	The emission reduction calculations provided in the spreadsheet /8/ have been verified to be correct and in line with the revised registered PDD /1/ and applied methodologies /7/.

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 is equivalent to 30,563 tCO ₂ . The reported emission reductions are approx. 65% lower than the estimated emission reduction of 88,290 tCO ₂ for the period 01/01/2022-31/12/2023 (both days included) as per the registered PDD /1/ due to incoming flow rate. The calculation is verified through calculation spreadsheet /8/.
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 approx. 65% lower than the estimated emission reduction of 88,290 tCO₂ for the period 01/01/2022-31/12/2023 (both days included) as per the registered PDD /1/ due to incoming flow rate. The decrease of water amount because of Turkey precipitation regime and drought situation. In most of HEPP that is registered under GS and VCS have similar problems. Climate change is the cause of this problem and these kinds of renewable projects have a big role to prevent climate change issue. Another main reason of decrease of water amount is: more than one power plant upon to the creeks. As detailed by PD there are many dams upon the creek of Çamlıca and this cause to evaporation and decrease of water. Because of water decrease electricity generation and as the result of this only ER is effected. For number of employment and other sustainability principles such as release of pollutants – hazardous waste no major change expectation. Also project need carbon revenue to reach even fees have increased, maintenance costs and decreasing of income because YEK-DEM mechanism is no longer applied to the project while YEK-DEM present higher price in compare with the market price. Finally, the ongoing financial need derived from GS certification is necessary to reduce unattractiveness of the project and enhance the project's operation. This GS finance helps to maintain project activity contributing to the development of local communities in terms of income and employment creation, worker quality increase and emission reductions. The calculation is verified through calculation spreadsheet /8/.
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.
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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 0.4 of 06/11/2024 /3/ is equivalent to 30,563 tCO ₂ . The calculation is verified through calculation spreadsheet /8/.
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 water flow as verified according to 2022 and 2023 Water Year Areal Rainfall Assesment Reports.

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 /8/ /14/	Emission reduction: 30,563 tCO ₂ Combined Emission Factor: 0.4929 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 /14/. The values for the monitoring period are verified through supporting documents and calculations /8/.		
	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 /8/	62,007 MWh net electricity generation for MP.
	Assessment		
	EG _{PJ,grid,y}) This parameter is monitored by electricity meters and in this monitoring period totally 62,007 MWh is measured /8/ /14/ and calculated for the net electricity generation. The net electricity generation values were controlled by the evidence of Distribution Company screenshot records and invoices /14/. The values for the monitoring period are verified through supporting documents and calculations /8/.		
	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. /18/	12 employees work at the plant. All employees at the plant are provided Health & Safety Trainings
	Assessment		

Trainings: 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 /18/ 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 /13/	12 employees are hired

Assessment

Employment Contracts and Rate of Local People: This parameter is monitored on each verification by the Registration Document /13/ of employees. It was confirmed that 12 employees are hired by the project.

Data variable	Source of Data	Reported value for the project period
Safeguarding Principle 9.4: Release of pollutants Water Quality and Quantity	Sewage Truck Invoices /25/	Sewage truck invoices are provided

Assessment

Disposal of the waste water: The parameter is monitored once for each monitoring period by the sewage truck invoice. It is confirmed that the waste water is stored in a septic tank on site and disposed of periodically with vacuum. The sewage truck invoices /25/ are provided to the verification team.

Data variable	Source of Data	Reported value for the project period
Safeguarding Principle 9.4: Release of pollutants Water Quality and Quantity	Records taken by accredited firm/organization who is approved by The General Directorate of State Hydraulic Works (DSI)	Flow is monitored continuously and recorded by the gauging device. Records are kept by the Project Owner /27/. Although the water amount has decreased by 40% (as shown under Section E.6, for upstream Bahçelik Dam and HEPP), the level determined for the minimum flow did not change. The minimum flow is measured instantly and followed by General Directorate of State Hydraulic Works. As per the water utilization agreement, the PO must follow the requirements stated in the agreement. The flow records are signed by both Directorate's personnel and the PO, and there aren't any inconveniences between Directorate and the PO during this monitoring period.

	Assessment		
	<u>Disposal of the waste water:</u> The parameter is monitored by DSI. Flow is monitored continuously and recorded by the gauging device. Records are kept by the Project Owner /28/are provided to the verification team.		
	Data variable	Source of Data	Reported value for the project period
	9.5 Hazardous and Non-hazardous waste Other Pollutants	Hazardous wastes are collected and treated by the third authorized party in accordance with local laws and related regulations/26/	Hazardous waste collection and transportation invoices are provided
Findings	Assessment		
	<u>Disposal of waste oil:</u> The parameter is monitored once for each monitoring period by invoices of hazardous waste acceptance evidence to licensed company. Hazardous waste invoices /26/ are provided to the verification team.		
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 onsite audit.		

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 F. Verification opinion

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity CAMLICA II HEPP, GS Registration Reference No. 1173 for the period 01/01/2022-31/12/2023 (both days included), with regard to the relevant GS4GG requirements and principles /4/ /5/. 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 G. Certification statement

It is RINA's opinion that the GHG emission reductions (GS VERs) stated in the latest version of monitoring report (Version 0.4 of 06/11/2024) /3/ for the project activity "CAMLICA II HEPP" for the period 01/01/2022-31/12/2023 (both days included) are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 20.0 /7/. Hence RINA is able to certify that the emission reductions from the project during the monitoring period 01/01/2022 - 31/12/2023 (both days included) amount to 30,563 tCO₂ (GS-VERs) totally. For 01/01/2022 to 31/12/2022 ER is 16,205 tCO₂ (GS-VERs); 01/01/2023 to 31/12/2023 ER is 14,358 tCO₂ (GS-VERs).

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 accreditato 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 Valeroso



*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/ricosciuto da
RINA Services S.p.A. is accredited/recognized by

UNFCCC	quali 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	HGG Enerji Üretim A.Ş	GS-PDD for “CAMLICA II HEPP” in Türkiye	version 15 of 04/01/2023	Project participant
2	Carbon check	Re-Validation report for GS project activities	version 0.5 issued on 06/01/2023	Project participant
3	GTE Carbon	GS4GG Monitoring Report for “CAMLICA II HEPP”	Version 0.1 of 06/12/2023 Version 0.2 of 01/04/2024 Version 0.3 of 05/04/2024 Version 0.4 of 06/11/2024	Project participant
4	Gold Standard Foundation	Gold Standard for Global Goals Principles & Requirements	version 1.2 of 23/10/2019	Publicly available
5	Gold Standard Foundation	Gold Standard for Global Goals Validation/Verification Body Requirements	Version 2.0 of 14/01/2021	Publicly available
6	CDM Executive Board	Clean Development Mechanism Validation and Verification Standard	version 03.0 of 09/09/2021	Publicly available
7	CDM Executive Board	“ACM0002”, “Grid-connected electricity generation from renewable sources”	version 20.0 of 28/11/2019	Publicly Available
8	GTE Carbon	ER_Calculation Sheet_Camlıca 2 _06.11.2024	Version 0.1 of 06/12/2023 Version 0.2 of 01/04/2024 Version 0.3 of 05/04/2024 Version 0.4 of 06/11/2024	Project participant
9	Gold Standard Foundation	Gold standard for the global goals Monitoring Report Template	version 1.1 of 14/10/2020	Publicly available
10	CDM Executive Board	Methodological Tool “Tool to calculate the emission factor for an electricity system”	version 07.0 of 31/08/2018	Publicly available
11	CDM Executive Board	Methodological Tool “ Tool for the demonstration and assessment of additionality”	version 07.0 of 23/11/2012	Publicly available
12	Energy Market Regulatory Authority	Electricity Generation License EÜ/10214-13/04898	date 20/05/2021 of	Project participant
13	Social Security Institution	Recruitment Document for Employees	Date 17/10/2023 of	Project participant
14	HGG Enerji Üretim Anonim Şirketi	Invoices delivered to Distrubution Company for each month (EPIAŞ-OSOS)	MP	Project participant
15	Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	date 22/03/2003 of	Publicly available
16	Energy Market Regulatory Authority	Regulation of Metering and Testing of Metering Systems	date 24/07/1994 of	Publicly available
17	TEIAS	1 st Index Protocol of the Electricity Meters	date 15/02/2021 of	Project participant
18	Diriliş OSGB	Health and Safety Training for all Employees	Date of 18-19/03/2022	Project participant

19	GS4GG	Desing Renewal Review under Gold Standard for the Global Goals	Submitted on 06/04/2023	Project participant
20	Nano Energy	Test report of the Electricity Meters	date 29/03/2022 of	Project participant
21	VCS Website	https://registry.terra.org/app/search/VCS/All%20Projects	Retrieved on: 16/04/2024	Project participant
22	GCC Website	https://projects.globalcarboncouncil.com/pages/submitted_projects https://projects.globalcarboncouncil.com/pages/approved_projects	Retrieved on: 16/04/2024	Project participant
23	HGG Enerji Üretim Anonim Şirketi	Yeşilköy & Çamlıca Village	Logbook	seen onsite visit
24	GS4GG	Performance Review under Gold Standard for the Global Goals	Submitted on 29/03/2023	Project participant
25	KASKİ	WW collection receipt	Submitted on 29/07/2022	Project participant
26	HGG Enerji Üretim Anonim Şirketi	Waste declaration form	Submitted for 2022 and 2023	Project participant
27	DSI	DSI Declaration on min. flow life line		
28	DSI	2022 Water Year Areal Rainfall Assesment Report 2023 Water Year Areal Rainfall Assesment Report	Submitted for 11/2022 and 2023	Project participant

Remaining FAR from previous verification

FAR ID	1	Section no.		Date: 5/2/2024
Description of FAR				
In-line with § 5.1.39 to 5.1.44 GS4GG Principles and Requirements, GS VVB and PD shall consider the rule below for future monitoring activities: 5.1.39: An annual update report shall be provided to GS -when design certification is achieved- for each monitoring year by the end of next calendar year for which verification is not completed.				
Project participant response				Date: 1/1/2024
Annual Report has been submitted on 28 December 2023.				
Documentation provided by project participant				
VVB assessment				Date: 03/04/2024
Please share annual report with VVB.				
Project participant response				Date: 05/04/2024
The report is shared.				
Documentation provided by project participant				
VVB assessment				Date: 09/04/2024
Annual report is verified.				

FAR IDc	2	Section no.		Date: 5/2/2024
Description of FAR				
Remote audit shall be resumed by GS VVB when Covid situation eases in the host country.				
Project participant response				Date: 1/1/2024
The physical site visit was conducted on 26 January 2024.				
Documentation provided by project participant				
VVB assessment				Date: 03/04/2024
Site visit conducted on 26/01/2024				

FAR ID	3	Section no.		Date: 5/2/2024
Description of FAR				
As per Principle 4.3.5, records for hazardous waste disposal for 2020 and 2021 shall be verified during next verification by associated GS VVB. GS VVB shall provide its assessment opinion in this respect.				
Project participant response				Date: 1/1/2024
Records for 2020 and 2021 are submitted to VVB.				
Documentation provided by project participant				
VVB assessment				Date: 03/04/2024
Waste declaration records are shared only for 2022 (hazardous waste) year please provide also for 2020 and 2021. Moreover, according to local law hazardous waste max retention and storage time is 6 months please explain how the company compliance with local law.				
Project participant response				Date: 05/04/2024

The monitoring period is from January 2022 to December 2023. The waste declaration form of the year 2023 is shared with VVB. Additionally, accrual receipts from the related municipality are added. According to the receipts, no hazardous waste was generated during years 2022 and 2023 other than the waste declared by the shared waste forms.

Only for the year 2023 (please see below), there is a record for solid waste in the receipt.

Tahakkuk Kalemleri:	
Gelir Türü	Dönem
Katı Atık Ücreti-1 ADET KONTEYNİR ÜCRETİ ,(23695)	2023/1

Also the receipt for collection are shared with VVB. These receipts also show the generated waste.

Documentation provided by project participant

VVB assessment

Date: 09/04/2024

Waste declarations for 2022 and 2023 are verified.

FAR ID	4	Section no.	Date: 5/2/2024
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Description of FAR

GS VVB shall compare the actual ERs with estimation value and verify the reason causing the difference regarding upstream projects and irrigation activities, other than weather conditions. In case the electricity generation is continuing > more than 40% less than ex ante estimation, GS VVB shall check how the factors incl. income support the project operation. Associated GS VVB shall provide its opinion in verification report during next monitoring period verification.

Project participant response

Date:

GS VVB shall provide its opinion in verification report during this monitoring period verification.

Documentation provided by project participant

VVB assessment

Date: 03/04/2024

Difference between ex ante and ex post calculation is %69 lower. As it is shared via DSI (General Directory of Meteorology Reports) for 2022 and 2023 it is seen that because of precipitation regime changes in Turkey precipitation amounts decrease dramatically. The reports are shared with VVB and reviewed. Because of turbinated water amount decrease electricity and ER amounts decrease dramatically. Because of electricity generation decrease the project's income from electricity sale will decrease. Thus project still need carbon sales revenue.

Project participant response

Date: 05/04/2024

The reason behind the lower ER values is only the change in precipitation. It should be mentioned that the electricity generation is dependent on water flow estimation; which is a natural phenomenon and cannot be estimated with 100% accuracy. The reports showing the change in precipitation for the years 2022 - 2023 and the average water amounts used for electricity generation are shared with VVB. These documents show the effects of drought. In previous monitoring periods the change in precipitation can be observed as well. For example (according to approved monitoring reports) for the 1st MP of the 1st CP (2015 - 2017), the difference between ex-ante and actual ER is around 26%. However with the drought in 2nd MP of the 1st CP (2017 - 2019), this difference reaches upto 60%.

By rationale, lower generation means lower electricity sales revenue and income. Hence, this means "carbon revenue is more critical to compensate for the losses from electricity income". Generation is estimated based on historical long terms values. In particular, for last few years, due to lower precipitation, the incoming flow has been much lower. The project is built and place, hence even it is not attractive, it has to be operated since it is built.

Documentation provided by project participant

VVB assessment

Date: 09/04/2024

Precipitation results are seen. The water amount that is turbinated decrease dramatically. So energy generation amount decrease so much.

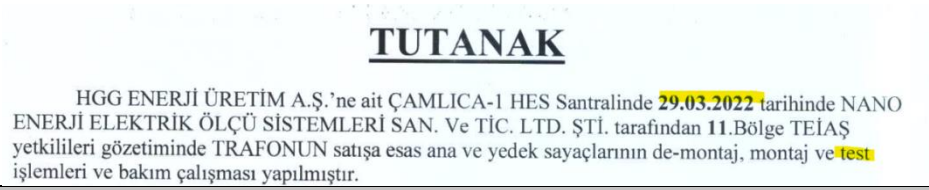
Table 2. Remaining FAR from Design Renewal Review

FAR ID	1	Section no.		Date: 5/2/2024
Description of FAR				
In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule after Design Renewal Certification is achieved: 5.1.29: 1 st verification shall be completed within two years after the certification is achieved.				
Project participant response				Date: 1/1/2024
Verification will be completed within two years after the design certification is completed.				
Documentation provided by project participant				
VVB assessment				Date: 03/04/2024
MR Key Project Information Cover page please add date of project design change for CP2.				
Project participant response				Date: 05/04/2024
The date for project design certification date is 02 May 2022. The design renewal review is shared with VVB.				
Documentation provided by project participant				
VVB assessment				Date: 09/04/2024
Verified.				

FAR ID	2	Section no.		Date: 5/2/2024
Description of FAR				
Validation site visit shall be resumed by VVB when Covid situation eases.				
Project participant response				Date: 1/1/2024
The physical site visit was conducted on 26 January 2023.				
Documentation provided by project participant				
VVB assessment				Date: 03/04/2024
Site visit conducted on 26/01/2024.				

FAR ID	3	Section no.		Date: 5/2/2024
Description of FAR				
In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule since Transition to GS4GG is finalized: 5.1.39: Transparent, annual update reports need to be provided for Projects that have achieved the Project Design Certification stage or have successfully transitioned to Gold Standard for the Global Goals. 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.				
Project participant response				Date: 1/1/2024
Annual Report has been submitted on 28 December 2023.				
Documentation provided by project participant				
VVB assessment				Date: 03/04/2024
Please share annual report with VVB.				
Project participant response				Date: 05/04/2024
The report is shared.				
Documentation provided by project participant				
VVB assessment				Date: 09/04/2024
Verified.				

Table 1. CR from this verification

CR ID	1	Section no.	Date: 05/02/2024
Description of CR			
1- Please share design certification date for CP2. 2- Table 2 Milestones for Camlica II HEPP Please describe CP2. 3- No mention about test period under Section C and share the date of test with evidences. 4- Revise D.3 Table when all records are available. Also E.1, E.2, E.3, E.4 and E.5 and E.6.			
Project participant response			Date: 1/1/2024
1. The design certification date for CP 2 is 11/04/2022 according to registered PDD. 2. Table 2 is revised accordingly. 3. The testing of the meters are done once every two years according to regulation ² . Accordingly, Section C is revised. Testing reports are shared as supporting documents. 4. The records for November and December 2023 are retrieved. They are shared as supporting documents. All the related tables showing ER and EG are revised accordingly.			
Documentation provided by project participant			
DOE assessment			Date: 03/04/2024
1- OK 2- OK 3- Please control the sentence "Calibration of the new metering devices is made on 21 February 2022 and sealed before the commissioning of the power plant" Also the date of 21/02/2022 is not in line with protocols. Please control the test date of 29 March 2022. 4- OK. Hence CR ID 1 is not closed.			
Project participant response			Date: 05/04/2024
3- The sentence is revised. According to the first index report i.e., the protocol, the date should be 15 February 2021. The test date of 29 March 2022 is stated in the minute which is shared with VVB. Please see below.			
 TUTANAK HGG ENERJİ ÜRETİM A.Ş.'ne ait ÇAMLICA-1 HES Santralinde 29.03.2022 tarihinde NANO ENERJİ ELEKTRİK ÖLÇÜ SİSTEMLERİ SAN. Ve TİC. LTD. ŞTİ. tarafından 11.Bölge TEİAŞ yetkilileri gözetiminde TRAFONUN satışa esas ana ve yedek sayaçlarının de-montaj, montaj ve test işlemleri ve bakım çalışması yapılmıştır.			
Documentation provided by project participant			
VVB assessment			Date: 09/04/2024
Verified. Hence CR ID 1 is closed.			

² <https://www.mevzuat.gov.tr/mevzuat?MevzuatNo=6381&MevzuatTur=7&MevzuatTertip=5>

Table 2. CAR from this verification

CAR ID	1	Section no.		Date: 5/2/2024
Description of CAR				
1- Please revise methodology version and control all report 2- Total EG for this monitoring period is calculated to be 55,887.42 MWh. EPIAS data is available only for 22 months at the moment (i.e., from 01/01/22 to 01/11/23). Please share missing data and revise all report and also share the evidence. 3- $EG_{PJ,grid,y}$ please also share about test period as you mention about calibration. 4- Please control and revise all report for 01/10/23 - 01/11/23 5- Revise total electricity generation and ER and check all report.				
Project participant response				Date: 1/1/2024
1. The versions of the methodology and tools are revised. 2. The records for November and December 2023 are retrieved. They are shared as supporting documents. All the related tables showing ER and EG are revised accordingly. 3. The testing period of the meters are stated in the Table for $EG_{PJ,grid,y}$ under Section D.2. 4. The records for November and December 2023 are retrieved. They are shared as supporting documents. All the related tables showing ER and EG are revised accordingly. 5. The records for November and December 2023 are retrieved. They are shared as supporting documents. All the related tables showing ER and EG are revised accordingly.				
Documentation provided by project participant				
DOE assessment				Date: 03/04/2024
1- OK 2- OK 3- OK 4- Same as above. Please control the sentence "Calibration of the new metering devices is made on 21 February 2022 and sealed before the commissioning of the power plant" Also the date of 21/02/2022 is not in line with protocols. Please control the test date of 29 March 2022. 5- OK.				
Hence CAR ID 1 is not closed.				
Project participant response				Date: 05/04/2024
4- Revised.				
Documentation provided by project participant				
VVB assessment				Date: 09/04/2024
Verified.				
Hence CAR ID 1 is closed.				

Table 3. FAR from this verification

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

Document information

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