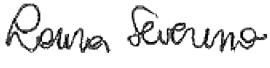




Validation report form for renewal of crediting period for GS project activities

VALIDATION REPORT FOR RENEWAL OF CREDITING PERIOD (RCP)

Title of the project activity	Cataloluk HEPP
GS Reference number of the project activity	GS 872
Number and duration of the next crediting period	3 rd crediting period 7 years
Version number of the validation report for RCP	2.0Aa
Completion date of the validation report for RCP	29/12/2024
Version number of PDD to which this report applies	3.0 of 26/12/2024
Project participant(s)	Elestaş Elektrik Üretim A.Ş.
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 18.0
Estimated annual average GHG emission reductions or net anthropogenic GHG removals in the next crediting period	14,650 tCO ₂ /year
Name of VVB	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the validation report for RCP	 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

The project activity is a hydro power plant consisting of 2 horizontal francis type turbines with 4.92 MWm/4.77 MWe capacities making the total installed capacity of 9.84 MWm/9.54 MWe thus qualifies under small scale projects. The generated electricity is fed to the national grid. The estimated net electricity generation is 31,990 MWh/year and the annual emission reductions are estimated to be 14,650 tCO₂e/year. Estimated annual average electricity generation is taken from the generation license of the project activity.

It should be noted that although third crediting period will be valid for seven years, as per Principles and Requirements, 5.1.46, when there is a delay in the completion of re-validation beyond the last date of current certification cycle, it will result in a reduction of any issuance of Certified Products. Hence, the PP will not claim any GS VER for the date 01/04/2024 –12/08/2024 which is the date the first validation opinion is submitted by the VVB.

The proposed project activity comprises of renewable energy generation from hydro power utilization to generate and deliver electricity to the national grid without thermal energy production. The project type is hydro power plant 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. 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 waste 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 and the Project Owner (i.e. has rights of the carbon credits) of this project activity is Elestaş Elektrik Üretim A.Ş. Elestaş Elektrik Üretim A.Ş. is the legal owner of the products and all legal rights of the project as per generation license by EPDK (EÜ/8151-1/04112) and revised in 25/10/2018, after the merging of the companies (Beytek and Elestaş companies are merged under the name of Elestaş Elektrik Üretim Anonim Şirketi on 01/10/2018). Revised generation license has been provided to the VVB during the re-validation process. Legal right for installation of turbines and generating electricity on project site is defined by local regulations and secured by generation license.

Double counting issue has been assessed and the validation team has also checked the I-REC Registry (<https://evident.services/device-register>) and this project is not available within I-REC Registry database. Similarly, VCS project database (<http://vcsprojectdatabase.org/#/home>), GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects), ICR project database (<https://www.carbonregistry.com/projects>), BCR project database (<https://globalcarbontrace.io/projects>) and CerCarbono project database (<https://www.ecoregistry.io/projects-list/cercarbono-co2>) were checked and this project is not available within those projects' databases, either. Given that CDM projects are not applicable in Turkey and the project does not appear on domestic REC scheme, I-REC, VCS, GCC, ICR, BCR and Cercarbono registries, it could be confirmed that no RECs and other VER carbon credits are being issued for the project at the time of this verification. 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. Moreover, the project activity is not a part of NDC or under other national policies.

Location

The project is located in Göksun District, Kahramanmaraş Province in Türkiye.

Scope of Validation

The validation scope is to review the updated PDD against the GS principles and requirements. The validation of the renewal of crediting period is also to be seen in conjunction with the validation report at the time of requesting registration of the project (Carbon Check – re-validation report, version 3.0 issued on 21/08/2023). Validation of the renewal of crediting period is a requirement and it is seen as necessary to assure about:

- (a) the impact of new relevant national and/or sectoral policies and circumstances on the baseline;
- (b) the correctness of the application of an approved baseline methodology for the determination of the continued validity of the baseline or its update, and the estimation of emission reductions for the applicable crediting period.

Validation process

Validation is conducted using RINA procedures in line with the GS requirements and principles and applying standard auditing techniques. The validation assessment involved a document review of relevant documentation, the interview and physical audit, and the reporting. Validation is not meant to provide any

consultancy of the project participants. However, stated requests, clarifications and/or corrective actions may have provided input for improvement of the project design.

Conclusion

RINA commissioned by Elestaş Elektrik Üretim A.Ş. has performed the validation of the renewal of crediting period of the project activity “Cataloluk HEPP”, about the relevant GS requirements and principles for project activities.

In conclusion, it is RINA’s opinion that the project activity “Cataloluk HEPP” as described in the PDD version 3.0 of 26/12/2024 and previous versions, meets all relevant GS requirements and principles, and correctly applied the baseline and monitoring methodology AMS-I.D, Grid connected renewable electricity generation – version 18.0 of 28/11/2014.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation 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)	Validation findings
1	Team Leader, Validator, Technical Expert TA 1.2	IR	ERDOĞAN	Mehmet	RINA Türkiye	✓	✓	✓	✓
2.	Team Leader in trainee, Validator, Technical Expert TA 1.2	IR	YAKUPOĞLU	Öykü	RINA Türkiye	✓	✓	✓	✓

B.2. Technical reviewer and approver of the validation report for RCP

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. Means of validation

C.1. Desk review

The latest PDD version 3.0 of 26/12/2024 and previous versions, in particular the applicability of the methodology, the baseline determination, the emission reductions calculation, the sustainability indicators, were assessed as part of the validation. All documents reviewed or referenced during the validation are listed in Appendix 3.

C.2. On-site inspection

Duration of On Site Audit: 10/07/2024				
No.	Activity performed on-site	Site location	Date	Team member
1.	-Implementation and operation of the proposed project activity. - Baseline and Additionality (Financial Ongoing) - Emission reductions calculations - Interviewed key personnel of the plant to confirm the operational and data collection procedures, QA QC procedures - GS4GG Sustainable Indicators - Local stakeholder consultation - Grievance & Input mechanism	Göksun District of Kahramanmaraş Province in Türkiye	10/07/2024	Öykü YAKUPOĞLU

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Y.	Hakan	Facility Manager	10/07/2024	Implementation status of the project Monitoring equipment and operation Generated Electricity Monitoring of Gold Standard for Global Goal Parameters	Öykü YAKUPOĞLU
2.	Z.	Ahmet Hamdi	Consultant			
3.	Y.	Mustafa	Şahinkayası Village Mukhtar	10/07/2024	Local Employment Receiving General Opinion of the local stakeholder about the project Benefit of the project to the village Bird carcasses Grievance Process	Öykü YAKUPOĞLU
4.	K.	Cennet	Şahinkayası Village Stakeholder			
5.	Ş.	Hatice	Şahinkayası Village Stakeholder			
6.	B.	Osman	Çağlayan Village Deputy of Mukhtar			

The project activity area was visited on 10/07/2024 with the PP and by the VVB. The project employees were interviewed about the implementation status of the project, monitoring equipment and operation, generated electricity of the project activity.

During on-site audit it was confirmed that no negative feedbacks or comments were received related to project activity during grievance mechanism and continuous inputs. There was also no grievance about the impact such as noise that reached the VVB during the stakeholders' interviews. In addition to this, the VVB assessed that whether a comment box available at the most appropriate and publicly accessible location (Şahinkayası and Çağlayan Villages, the nearest residential areas) so that stakeholders can provide feedback on the project. The continuous input/grievance mechanism has been verified through interview with the headman of Şahinkayası Village and the deputy of headman of Çağlayan Village and the logbooks 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 so far and they confirmed that there is no legal contest or disputes have arisen.

C.4. Clarification requests, corrective action requests and forward action requests raised

Area of validation findings	No. of CR	No. of CAR	No. of FAR
Compliance with PDD form	1		
Compliance with GS Passport form			
Application of baseline and monitoring methodology and standardized baseline		2	
Validity of original baseline or its update		1	
Do No Harm assessment		1	
Impact assessment – Sustainable Development Matrix			
Estimated GHG emission reductions or net anthropogenic GHG removals		3	
Validity of monitoring plan		1	
Validity of sustainable monitoring plan			
Project participants			
Local stakeholder consultation process		1	
Others (GS Issuance Review)			
Total	1	9	-

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	The title of the project activity is defined as "Cataloluk HEPP" in the PDD version 3.0 of 26/12/2024 which is in line with the GS4GG Registry. The version and the completion date of the report are available at the cover page of the PDD. "GS4GG Project Design Document Template, version 1.5" which is the latest version is applied with the PDD.
Findings	CR-1 has been issued and successfully closed.
Conclusion	RINA confirms that the PDD is based on the currently valid GS4GG Project Design Document Template, version 1.5.

D.2. Compliance with GS Passport form

Means of validation	No GS Passport is available under GS4GG.
Findings	N/A
Conclusion	No GS Passport is available under GS4GG.

D.3. Application of baseline and monitoring methodology and standardized baseline

Means of validation	The project correctly applies the approved baseline and monitoring methodologies "AMS-I.D.", "Grid connected renewable electricity generation", version 18.0 of 28/11/2014. The applied methodologies are approved by CDM and the applied versions are the latest version at the time of PDD submission. In addition, the following methodological tools are applied in this PDD: • TOOL07 "Tool to calculate the emission factor for an electricity system" Version 07.0. • TOOL20 "Assessment of debundling for small-scale project activities", Version 04.1. • Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period", Version 03.0.1. • The project activity is a greenfield, grid connected renewable electricity generation project. • The project activity is the installation of hydro power plant. The power density is calculated as 41 W/m². Since the power density is higher than 4 W/m², the applied methodology is suitable for the project activity in this manner. • The project activity has renewable components only, with the installed capacity less than 15 MW. • The project activity does not involve combined heat and power generation activity. • The project does not involve capacity addition, a retrofit of (an) existing plant(s) or a replacement of (an) existing plant(s). • No methane emissions recovered are available. • Project activity does not involve biomass fired power plants/units. According to applicability conditions given in the tools; • Tool 07 Tool to calculate the emission factor for an electricity system: This tool is applicable and used for the calculation of OM, CM and CM since the project activity includes grid power plants and supplies electricity to the grid. • Tool 20 Assessment of debundling for small-scale project activities: This tool is used to demonstrate that the project activity is not a debundled project activity of a larger project.
Findings	CAR-1 and CAR-3 have been issued and successfully closed.
Conclusion	RINA confirms that the selected baseline and monitoring methodologies have been previously approved by the CDM Executive Board and are applicable to the project, which complies with all the applicability conditions therein the selected versions are valid at the time of submission of crediting period. It is also confirmed that the methodologies are correctly applied by comparing them with the actual text of the

D.4. Validity of original baseline or its update

Means of validation	The project applies for a renewal of the crediting period under the requirements of The Gold Standard Foundation so the Methodological Tool “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period”, Version 03.0.1 is applied to demonstrate that the conditions used to determine the baseline emissions in the previous crediting period still valid. The validity of the current baseline is assessed using the following Sub-steps: Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies It is validated that the project activity baseline is the “Grid-connected electricity generation from renewable sources”. It is still in compliance with the current legal framework as stated in the generation license. There are no additional laws that came into force that has an impact on the project activity and the project activity is still in line with the available law and regulations. In addition to this since 2019 Turkish Ministry of Energy and Natural Resources calculates and presents the Türkiye National Electricity Generation Grid Emission Factor. Step 1.2: Assess the impact of circumstances It is assessed that the conditions used to determine the baseline emissions in the previous crediting period are still valid. There is no need any of new fuels or raw materials and the impact of electricity or fuel prices in the identification of the current practice for the baseline emissions. As stated earlier the new national circumstances have an impact on the EF of the grid and thus on the project's current baseline emissions. Step 1.3: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested. It is assessed that the remaining technical lifetime of the equipment that would have continued to be used in the absence of the project activity. In general the technical lifetime of the project activity (including hydro turbines) is defined as 150,000 hours as per Tool 10, Version 1.0 but in real case scenario it seems to be higher than this thanks to regular maintenance and new technical upgrades. So the equipment's lifetime exceeds the crediting period for which renewal is requested. Equipment only requires regular maintenance. The baseline scenario identified at the validation of the project activity was stated as “the electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected power plants and by the addition of new generation sources”. Under this scenario, no investment from the project's proponent or third party (or parties) has been envisioned later specifically for the project. As the methodology directly states the baseline scenario, there is no need to carry out other analyses. The project supplies electricity generated from hydro turbines to the national grid. Thus, the PDD correctly identifies baseline scenario comprised of electricity generation from grid-connected power plants in Turkey. Step 1.4: Assessment of the validity of the data and parameters The data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period are still valid have been assessed. For baseline calculation there are two main parameters: the electricity generation and the grid emission factor. In line with the tool and methodology, only the grid emission factor has been updated during the third crediting period renewal. According to the tool, the application of Steps 1.1, 1.2, 1.3 and 1.4 confirmed that the current baseline as well as data and parameters are still valid for the 3rd and last crediting period, then this baseline, data and parameters can be used for the renewed crediting period.
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	The project activity is in its 3rd crediting period. It should be noted that although third crediting period will be valid for seven years, as per Principles and Requirements, 5.1.46, when there is a delay in the completion of re-validation beyond the last date of current certification cycle, it will result in a reduction of any issuance of Certified Products. Hence, the PP will not claim any GS VER for the date 01/04/2024 –12/08/2024 which is the date the first validation opinion is submitted by VVB. VER issuance records are available in GS Registry (https://registry.goldstandard.org/projects/details/1237). Based on the provided evidences, it could be concluded that issued VERs give support to the ongoing financial sustainability of the project. However, the ongoing financial need for carbon revenue continues for the last crediting period. Since the increased maintenance and repair costs, exchange rate effect and also the system usage and operation fees that need to be paid by the project activity to Turkish Electricity Transmission Corporation (TEİAŞ) is another important factor contributing to the project's expenditure. Moreover, expected annual generation 31,990 MWh whereas actual generation has been almost 30% lower than expected in recent years as can be seen from previous monitoring reports. Hence, it can be concluded that significance of carbon revenues will be higher in the following years. Moreover, the investment analysis for the Cataloluk HEPP which prepared during the initial validation process, indicates that the Equity IRR of the project is 6.89% without considering carbon revenue. However, when carbon revenue (3.30 €/tCO₂) is factored into the project income, the IRR rises to 7.34%, making the project more financially viable. On the other side, the benchmark value considered in initial validation PDD is above 16.14%. This value underscores the continuing financial requirements of the project. During the first crediting period, a total of 82,944 VERs have been issued. During the second crediting period, no issuances have been performed (No verification period has been set for the project activity during the second crediting period). The reason of this is that when Elestaş Elektrik Üretim A.Ş. assumed control of the Çataloluk HEPP's operations in 2018, the new management did not realize that the project activity had been registered under Gold Standard. However, Elestaş Elektrik Üretim A.Ş. continued their operations, including monitoring and maintenance activities, as documented in the Annual Report dated 24/12/2024. This Annual Report has been provided to the VVB. Considering both the amount of electricity produced being lower than expected and the impact of carbon credits sold, the project revenue is still below the benchmark and therefore the need for ongoing finance continues. Briefly, it is validated that the Cataloluk HEPP needs the supporting income derived from carbon credits since the electricity generation market has challenges due to the Regulator intends to keep electricity prices at minimum. The high maintenance costs.
Findings	CAR-2 has been issued and successfully closed.
Conclusion	RINA verified that the baseline was updated assessed according to the tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period". The conclusion is that the baseline of the type I component of the project activity complies and will continue to comply with the laws and regulations in the sector for the next crediting period. It can be concluded that the conditions used to determine the baseline emissions in the previous crediting period are still valid.

D.5. Do No Harm Assessment

Means of validation	As per GS4GG Safeguarding principles and requirements version 1.2, all projects shall conform to the Gold Standard for the Global Goals Safeguarding Principles & Requirements. SDG Impact tool has been also implemented as required by GS4GG and verified through the assessment tool by VVB. The assessment is done as follows: <u>Principle 1- Human Rights:</u>
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The Project is not in conflict with the economic livelihood or other issue of the local community. Thus, the Project VVBs not cause any human rights abuse and respects internationally proclaimed human rights issue.

Türkiye has ratified European Convention on Human Right on 10/03/1954. Therefore, the project is not expected to violate the rules regarding human rights.

Principle 2 – Gender Equality and Women's Rights:

Türkiye has ratified ILO convention 100, 111, 122 and 142, which provides gender equality and promotes women's employment. The project outputs serve everyone without regarding gender. It provides electricity for all.

Principle 3 – Community Health, Safety and Working Conditions:

Türkiye has ratified ILO convention 155 and about work safety and precautions. Staff will be trained during operation phases.

Principle 4 – Cultural Heritage, Indigenous Peoples, Displacement and Resettlement:

According to the registered PDD and Validation Report of Cataloluk HEPP, no sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture were observed in the project area.

Principle 5 – Corruption:

Türkiye has ratified several conventions on bribery and corruption including OECD and UN conventions.

Principle 6 – Economic Impacts:

Türkiye has ratified ILO 87 and 98 conventions. All employees are recruited according to the national legislations. Türkiye is a party of IPEC since 1992 and ratified ILO convention 138 and 182. Elestaş Elektrik Üretim A.Ş. and appointed subcontractors do not involve in any form forced or compulsory labour Türkiye has ratified ILO 29 Forced Labour Convention.

ENVIRONMENTAL & ECOLOGICAL SAFEGUARDING PRINCIPLES:

Principle 1 – Climate and Energy:

The project reduces greenhouse gas emissions and fossil fuel use compared to the baseline scenario. On the contrary the project generates renewable energy and supplies to the grid.

Principle 2 – Water:

The project is hydro power project thus there is no directly impact of water resources due to the project. Staffs produce the insignificant amount of waste waters and this waste water has been collected in an impermeable septic tank and collected via vacuum trucks by municipality and disposed according to Regulation on Control of Water Contamination as confirmed through the registered PDD.

Principle 3 – Environment, ecology and land use:

The Land for the project has been approved by all relevant local Authorities. The project is susceptible to decreased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme conditions. Cataloluk HEPP systems do not affect the herbal life negatively. Furthermore, Cataloluk HEPP project not affect negatively organism, flora, fauna or GMOs as confirmed through the previous registered PDD. The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. The environment is protected by several Laws and Regulations in Türkiye. The purpose of the "Law on Environmental Protection" is to protect the environment with principles of sustainable development and environment. The project owner also follows necessary procedures for environmental safety at the project site at international standard (such as Bern Convention). All wastes are disposed of according to

	related regulations. The methods are categorized for all materials. Waste oil produced have been collected appropriately and disposed via accredited abatement companies in line with the legal regulations as confirmed through the registered PDD. The same processes apply for this crediting period.
Findings	CAR-8 has been issued and successfully closed.
Conclusion	RINA confirms that conservative approach has been applied by PP to demonstrate sustainable development of the project activity which is in line with GS4GG requirements and SDG Tool Impact Requirements.

D.6. Impact assessment – Sustainable Development Matrix

Means of validation	As per GS4GG, Sustainable Developments Goals are discussed under Section D.9 of this report.
Findings	N/A
Conclusion	As per GS4GG, Sustainable Developments Goals are discussed under Section D.9 of this report.

D.7. Estimated GHG emission reductions or net anthropogenic GHG removals

Means of validation	Baseline Emissions The calculation of baseline emission reductions is carried out in a conservative manner providing documentation and references to data sources. An approved CDM methodology, AMS-I.D. and methodological tool “Tool to calculate the emission factor for an electricity system is applied. The official published data, Turkish Ministry of Energy and Natural Resources are used to determine the emission factor of the grid. The emission factor is calculated as a combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the tool. OM Calculation OM value is taken from published document by “Turkish Ministry of Energy and Natural Resources”¹. As per this document, the most-up-to-date value of OM for hydro power plants is 0.7279 tCO₂/MWh. BM Calculation For the third crediting period, the build margin emission factor calculated for the second crediting period shall be used. Therefore, BM value is taken as 0.3680 tCO₂/MWh (which has been decided during the second crediting period) for the third crediting period. CM Calculation The combined Margin is calculated for hydro power generation project activities: $w_{OM} = 0.25$ and $w_{BM} = 0.75$ for subsequent crediting periods after the first crediting period. The combined margin emission factor is taken as 0.4580 tCO_{2e}/MWh. Project Emissions Project emissions are neglected since the power density of the project activity is higher than 10 W/m² (It is calculated as 41 W/m²). Leakage The leakage emissions are neglected as per AMS-I.D. Emission Reduction The ex-ante emission reduction has been calculated as the following equation in line with the AMS-I.D.: $ER_y = BE_y - PE_y$ The project emission and leakage is neglected for the project activity. Therefore, the emission reduction equals to baseline emissions. All the assumptions and data used by the project participants are listed in the PDD including their references and sources.
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https://enerji.gov.tr/Media/Dizin/EVCED/tr/%C3%87evreVe%C4%B0klim/%C4%B0klimDe%C4%9Fi%C5%9Fikli%C4%9Fi/TUESEmisyonFktr/Belgeler/TUESEF_Bilgi_Formu.pdf

	All the documentation used by the project participants as the basis for assumptions and source of data are quoted and interpreted in the PDD and the Emission Reduction Calculation Spread Sheet.
Findings	CAR-4, CAR-5 and CAR-9 have been issued and successfully closed.
Conclusion	It is RINA's opinion: (a) All assumptions and data used by the PP are listed in the PDD; (b) All documentation used by the PP as the basis for assumption and source of data is correctly quoted and interpreted in the PDD (c) All values used in the PDD and ERs spreadsheet including GWPs are considered reasonable in the context of the proposed project activity (d) The baseline methodology and methodological tools have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions; All estimates of the baseline and project emissions can be replicated using the data and parameters values provided in the PDD and ERs spreadsheet.

D.8. Validity of monitoring plan

Means of validation	The monitoring plan (data and parameters fixed ex ante) includes all data and parameters fixed ex ante required by the applied methodology.				
	Parameters ex-ante:				
		Data/ parameter	Unit	Value applied	Assessment
	/1/	Combined Margin of Türkiye National Grid (CM)	tCO ₂ /MWh	0.4580	The emission factor is calculated as a combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the tool. Operating Margin and Build Margin are taken from the published data by Ministry of Energy and Natural Resources². As per this document: OM = 0.7279 tCO₂/MWh BM = 0.3680 tCO₂/MWh Since this is a hydro power plant and 3rd crediting period, weighing factors are as follows: W_{OM}= 0.25 W_{BM}= 0.75 Therefore, as per Tool 07 (v07.0), the combined margin is as follows: (0.3680 x 0.75) + (0.7279 x 0.25) = 0.4580 tCO₂/MWh
	Parameters ex-post:				
		Parameter	Description/Assessment		
	/1/	EG _{PJ, facility, y} (MWh)	Quantity of net electricity generation supplied by the project plants/units to the grid in year y The quantity of electricity supplied by the project plants/units to the grid and the quantity of electricity delivered to the project plant/unit from the grid will be measured. Net generation will be calculated via subtracting energy delivered by the project activity to the grid for internal consumption from electricity fed to the grid. The electricity generation of the plant will be calculated based on EPIAS records and crosschecked with meter reading records that are the basis of sold electricity.		

		The net electricity will be measured continuously and recorded at least monthly. For this crediting period the value of the parameter is defined as 31,990 MWh/y. Net electricity generation will be measured by two meters which will be sealed by TEIAS. The meters will comply with EMRA (Energy Market Regulatory Authority) regulation. 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” as explained in the PDD. The maintenance and calibration of meters are under TEIAS responsibility. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. <table border="1"> <tr> <th></th><th>Electricity Meter(Primary)</th><th>Electricity Meter (Secondary)</th></tr> <tr> <td>Manufacturer</td><td>ITRON</td><td>ITRON</td></tr> <tr> <td>Model</td><td>SL761X</td><td>SL761X</td></tr> <tr> <td>Serial number</td><td>84051677</td><td>84051678</td></tr> <tr> <td>Date of installation</td><td>07/11/2018</td><td>07/11/2018</td></tr> <tr> <td>The accuracy of meters</td><td>0.5S</td><td>0.5S</td></tr> </table> The meters have the accuracy of 0.5S as confirmed through first index protocol dated 07/11/2018. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” and given information in the PDD. The electricity meters are sealed by TEIAS as confirmed during the site visit. The meters were calibrated on 2018 as confirmed through first index protocol performed by TEİAŞ. The recalibration 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. In addition, protocol between company and TEİAŞ; It is stated that the periodic inspection and testing of the meters should be done every 2 years.		Electricity Meter(Primary)	Electricity Meter (Secondary)	Manufacturer	ITRON	ITRON	Model	SL761X	SL761X	Serial number	84051677	84051678	Date of installation	07/11/2018	07/11/2018	The accuracy of meters	0.5S	0.5S
	Electricity Meter(Primary)	Electricity Meter (Secondary)																		
Manufacturer	ITRON	ITRON																		
Model	SL761X	SL761X																		
Serial number	84051677	84051678																		
Date of installation	07/11/2018	07/11/2018																		
The accuracy of meters	0.5S	0.5S																		
/2/	A _{PJ}	Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full This parameter may be monitored by using topographical surveys or maps. The current value is 233,567.93 m². No changes have been observed from the second crediting period.																		
/3/	Cap _{PJ}	Installed capacity of the hydro power plant after the implementation of the project activity This parameter may be monitored by reviewing the generation license of the project activity. There has been no capacity addition and no renewal of the generation license resulting from this. The current installed capacity of the project activity is 9,540,000 We.																		
/4/	Air Quality	SO₂ emissions by thermal power plants-NO_x emissions by thermal power plants Electricity generated by Çataloluk HEPP and NO_x and SO₂ emission data from GHG inventory of Türkiye are used as reference in calculation of the emission reduction.																		
/5/	Balance of Payments	Currency saving due to avoided fuel import With monitoring most-up-to-date documents related to “Türkiye Thermal Power Plant, Amount of Fuel Consumed of Natural Gas”																		

			and “Electrical Energy Production in Türkiye”, this monitoring parameter can be monitored and calculated.
	/6/	Emission Reductions in tCO ₂	Reduction of CO ₂ emissions due to implementation of project activity Electricity generated by Çataloluk HEPP and calculated combined margin (CM) emission factor are used as reference in calculation of the emission reduction.
	/7/	Quantitative employment and income generation	Ensuring that the staff receives their full salaries on time Social security records are collected to monitor this monitoring parameter.
	/8/	Quality of Employment	Occupational injury fair wage and working hours Training records of employees are collected to monitor this monitoring parameter.
Findings	CAR-6 has been issued and successfully closed.		
Conclusion	It is RINA's opinion that the monitoring plan is in accordance with the monitoring methodology; the monitoring plan will give opportunity for real measurement of achieved emission reductions. RINA has checked all the parameters presented in the monitoring plan against the requirements of the methodology and methodological tools. RINA confirms that the monitoring arrangements described in the monitoring plan, including the data management and quality assurance and quality control procedures, are feasible within the project design, and the means of implementation of the monitoring plan are sufficient to ensure the emission reductions achieved by/resulting from the proposed GS4GG project activity can be reported ex post and verified.		

D.9. Validity of the sustainability monitoring plan

Means of validation	The Sustainability Monitoring Plan includes the way of monitoring for each GS4GG indicator.		
		Parameter	Description/Assessment
	1	EG _{PJ, facility, y}	SDG 7 - Indicator 7.2.1 – “renewable energy share in the total final energy consumption”: The electricity generation supplied to the grid will be monitored by EPIAS records. It is expected that the project generates 31,990 MWh/y.
	2	A _{PJ}	Area of the reservoir. Topographical maps are used to monitor this data. Currently, the area is 233,567.93 m ² .
	3	Cap _{PJ}	Installed capacity of the project activity. The project activity is a hydro power plant consisting of 2 horizontal francis type turbines with 4.92 MWm/4.77 MWe capacities making the total installed capacity of 9.84 MWm/9.54 MWe thus qualifies under small scale projects.
	4	Air Quality	SDG 7 - Indicator 7.2.1 – “renewable energy share in the total final energy consumption”: SO ₂ emission reduction corresponding to 31.99 GWh generation is calculated as 257.37 tons per year. NO _x emission reduction corresponding to 31.99 GWh generation is calculated as 93.76 tons per year as per the total electricity generation in Turkey of year 2021.
	5	Balance of Payments	SDG 7 - Indicator 7.2.1 – “renewable energy share in the total final energy consumption”: Natural Gas consumption, its price and electricity generation value of year 2022 is taken as the reference point. As per these input values, approximately consumption of 6,686,893 million m ³ of natural gas is

			expected to be avoided corresponding to 18,712,283 million TL annually.
	6	Emission Reductions in tCO ₂	SDG 13 - Indicator 13.3.1 –Baseline emissions correspond to emission reductions and are calculated as the net electricity generated by the project activity, multiplied with combined margin CO ₂ emission factor for grid connected power generation in year y. Both measured and calculated Emission reductions will be calculated as considering the EPIAS records for the net electricity generated and the emission factor for the grid, which is calculated and published by The Ministry of Energy and Natural Resources of Türkiye. According to EF and net electricity generation emission reduction is applied as 14,650 tCO ₂ e/year.
	7	Quantitative employment and income generation	SDG 8: Decent Work and Economic Growth: Number of employment generation will be monitored annually by employment SGK records (Social insurance registries of employees). The project provides at least 7 permanent employments. SDG 8.5.1: Average hourly earnings of female and male employees, by occupation, age, and persons with disabilities Payroll records of the employees have been shared by the PO to demonstrate contribution of the project activity to SDG Indicator 8.5.1. These payroll records include the wages, working hours, and benefits provided to employees. When the records are compared with each other, VVB has confirmed that fair wage practices and non-discriminatory employment policies are applied by the PO. Also, social security records may be used as a cross-checked method, because with social security records, employees' rights are guaranteed by the government.
	8	Quality of Employment	SDG 8: Decent Work and Economic Growth: HSE trainings will be provided to all employees. Attendance records or training certificates of Health and Safety trainings will be provided to all employees.
Findings	N/A		
Conclusion	RINA confirms that sustainability monitoring plan and indicators included in the PDD confirm to the sustainable development requirements of GS4GG.		

D.10. Crediting period

Means of validation	The third and last crediting starting date is 01/04/2024. The length of crediting period is defined as 7 years so end date of CP is 31/03/2031.
Findings	N/A
Conclusion	RINA confirmed that this is the third crediting period of the registered GS4GG project activity.

D.11. Project participants

Means of validation	Project Participant of the project activity is Elestaş Elektrik Üretim A.Ş. who is authorized to benefit from carbon income.
Findings	N/A
Conclusion	Project Participant of the project activity is Elestaş Elektrik Üretim A.Ş who is authorized to benefit from carbon income.

D.12. Local stakeholder consultation process

Means of validation	The project validated via onsite audit on 10/07/2024 for re-validation. Based on the interviews, there are no complaints from the local community regarding the project implementation & operation. The project participants applied a local stakeholder consultation (LSC) process on 03/08/2010 line with the regular requirements of GS. Also a stakeholder feedback round has been realized in compliance with the GS procedures governing the issue 60 days by sending the project summary and environmental and socioeconomic questionnaire by courier for initial validation of project. Also grievance boxes and books have been located at Mukhtar's office and always available for stakeholders to provide their opinion. Grievance box and grievance book were checked during on site visit and no compliance was observed. Notices of grievance book are also hanged in the most visible places in the villages. For the Cataloluk HEPP, stakeholder engagement procedure was conducted with the mukhtar of Şahinkaya Village and the deputy of mukhtar of Çağlayan Village and the local stakeholders from same villages face to face on 10/07/2024. During the meeting, the stakeholders stated that they had no complaints. In addition, feedback box and book were checked to see whether there has been any complaints from the local stakeholders and it is seen that there were no negative comments from the local stakeholders. Mukhtars have the contact information of project developer for on-going communication. During the on-site visit, this information has been confirmed by the VVB.
Findings	CAR-7 has been issued and successfully closed.
Conclusion	RINA verified that no negative feedback is received during the CP renewal process on 10/07/2024.

D.13. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	N
Corrections	N
Inclusion of a monitoring plan to a registered project activity	N
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	N
Changes to the project design of a registered project activity	N
Types of changes specific to afforestation and reforestation project activities	N

SECTION E. Internal quality control

The draft final validation 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 is performed by a technical reviewer(s) qualified in accordance with the RINA's qualification procedure.

SECTION F. Validation opinion

RINA has performed the validation of the updated PDD version 3.0 of 26/12/2024 for the project activity "Cataloluk HEPP" in Türkiye, GS Registration Reference No. 872; the validation is performed for the 3rd renewal crediting (from 01/04/2024 to 31/03/2031) and is based on the information available to us.

The review of the PDD version 3.0 and the subsequent follow-up interview have provided RINA with sufficient evidence to determine the validity of the original baseline and the sustainable indicators; the project correctly applied the baseline and monitoring methodologies AMS-I.D, Grid connected renewable electricity generation – version 18.0 of 28/11/2014.

In conclusion it is RINA's opinion that the project activity meets all the relevant GS requirements (GS VERs) for the renewal of the 3rd renewal crediting period.

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
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS4GG	Gold Standard for Global Goal
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)
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



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: Determiner

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 Ecologia 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 Ecologia Institute, to carry out Validation and Verification of SCS Reports.

GHG_QUAL_CERT_EN(06-2021)

Page 1 of 2



CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE

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

Öykü YAKUPOĞLU

è qualificato come¹:
is qualified as:

TL – VAL⁴ – VER – TEC – REG-EXP³

nello schema²:
for the scheme:

VCS – CCB – GS4GG

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

1.2 – 13.1 – 13.2

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
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	08.07.2024	First Issue

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
ITER: Independent Reviewer
DET: Determiner

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

RNA 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

RNA 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 1

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:

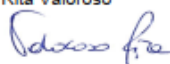
TEC, VAL, VER, TL, ITRP

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	Elestaş Elektrik Üretim A.Ş.	PDD for “Cataloluk HEPP”	Version 3.0 of 26/12/2024 Version 2.0 of 09/08/2024 Version 1.0 of 07/06/2024	Project Participant
2	Elestaş Elektrik Üretim A.Ş.	ER Calculation Excel Sheets	Version 3.0 Of 09/08/2024 Version 2.0 of 19/07/2024 Version 1.0 of 07/06/2024	Project Participant
3	Gold Standard Foundation	GS4GG Standard Requirements	version 1.2 of 23/10/2019	Publicly available
4	CDM Executive Board	CDM Validation and Verification Standard for Project Activities	version 03 of 09/09/2021	Publicly Available
5	Gold Standard Foundation	GS4GG PDD Report Form	version 1.5 of 29/06/2023	Publicly available
6	CDM Executive Board	“AMS-I.D”, “Grid connected renewable electricity generation”	version 18.0 of 28/11/2014	Publicly Available
7	CDM Executive Board	Methodological Tool: Tool to calculate the emission factor for an electricity system	version 07.0 of 31/08/2018	Publicly Available
8	CDM Executive Board	Methodological Tool: Assessment of debundling for small-scale project activities	version 04.1 of 24/03/2023	Publicly Available
9	CDM Executive Board	Methodological Tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period	version 03.0.1 of 02/03/2012	Publicly Available
10	Şahinkayası Village	Logbook	seen on 10/07/2024	Project Participant
11	Çağlayan Village	Logbook	seen on 10/07/2024	Project Participant
12	Energy Market Regulatory Authority	Generation License EU/8151-1/04112	date of 25/10/2018	Project Participant
13	Elestaş Elektrik Üretim A.Ş.	Registered PDD of 2 nd crediting period	version 09 of 01/09/2023	Project Participant
14	Turkish Ministry of Energy and Natural Resources	Türkiye National Electricity Network Emission Factor Information Form	version 00 of 18/03/2024	Project Participant
15	The Ministry of Trade and Industry	Regulation of Metering and Testing of Metering Systems	of 24/07/1994	Project Participant
16	Turkish Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	of 22/03/2003	Project Participant
17	TEIAS	1 st Index Protocol of the Electricity Meters	of 07/11/2018	Project Participant
18	Website: Argument:	https://www.mevzuat.gov.tr/MevzuatMetin/1.5.6701. pdf Human Rights	Retrieved on 05/07/2024	Publicly Available

	Language:	Turkish		
19	Website: Argument: Language:	http://www.ilo.org/ankara/areas-of-work/equality-discrimination/lang-tr/index.htm Gender Equality and Women's Rights Turkish	Retrieved on 05/07/2024	Publicly Available
20	Website: Argument: Language:	https://www.mevzuat.gov.tr/MevzuatMetin/1.5.3628.pdf Bribery and Corruption Turkish	Retrieved on 05/07/2024	Publicly Available
21	Website: Argument: Language:	http://www.ilo.org/ipec/programme/lang-en/index.htm Elimination of Child Labour English	Retrieved on 05/07/2024	Publicly Available
22	Website: Argument: Language:	http://www.ilo.org/ipec/Regionsandcountries/lang-en/index.htm Regions and Countries English	Retrieved on 05/07/2024	Publicly Available
23	Website: Argument: Language:	http://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO::P11200_COUNTRY_ID:102893 Regions and Countries English	Retrieved on 05/07/2024	Publicly Available
24	Website: Argument: Language:	https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12100:0::NO::P12100_ILO_CODE:C155 Occupational Safety and Health Convention English	Retrieved on 05/07/2024	Publicly Available
25	Carbon Check	Validation Report	Version 3.0 of 21/08/2023	Project Participant
26	Verra	https://registry.verra.org/app/search/VCS/All%20Projects , Argument: VERRA Database	Retrieved on 05/07/2024	Other
27	GCC	https://projects.globalcarboncouncil.com/pages/submitted_projects	Retrieved on 05/07/2024	Other
28	CDM Executive Board	Tool to determine the remaining lifetime of equipment	version 01.0 of 16/10/2009	Publicly Available
29	Ministry of Energy and Natural Resources	Provisional Acceptance Protocols	of 07/04/2010	Project Participant
30	AKEDAS	System Connection Agreement	of 15/02/2010	Project Participant
31	Kahramanmaraş Governorship Provincial Directorate of Environment and Urbanization	EIA Not Required Decision	of 30/12/2009	Project Participant
32	T.C. Social Security Institution	Social Security Records of Employees	-	Project Participant
33	Kahramanmaraş Water and Sewerage Administration	Waste Water Disposal Record (as an sample)	of 24/09/2021	Project Participant
34	Ministry of Environment and Urbanization	Hazardous Waste Disposal Record (as an sample)	of 2021	Project Participant
35	General Directorate of State Hydraulic Works	Life Water Records	of 2023	Project Participant

36	Elestaş Elektrik Üretim A.Ş.	SDG Impact Tool	Version 2 of 26/12/2024 Version 1 of 09/08/2024	Project Participant
37	Elestaş Elektrik Üretim A.Ş.	Payroll Records of Employees	-	Project Participant

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. Remaining FAR from previous verification

FAR ID		Section no.		Date:
Description of FAR				
N/A				
Project participant response				Date:
Documentation provided by project participant				
VVB assessment				Date:

Table 2. CR from this verification

CR ID	1	Section no.	Cover Page	Date: 11/07/2024
Description of CR				
a) Please include the design certification date of the 2 nd CP as well on the cover page. b) Please start the version number of the PDD from version 1.0 and then upgrade it on the cover page.				
Project participant response				Date: 19/07/2024
a) The design certification date of the 2 nd CP is included on the cover page. b) The version number of the PDD is revised as version 2.0.				
Documentation provided by project participant				
PDD Version 2.0				
2 nd CP Design certification final form				
DOE assessment				Date: 22/07/2024
Review-1:				
a) Ok Closed (The design certification date of the 2 nd CP was included on the cover page.) b) Ok Closed (The version number of the PDD was revised accordingly.)				

Table 3. CAR from this verification

CAR ID	1	Section no.	B.1	Date: 11/07/2024
Description of CAR				
Please update the version of Tool 20 in Section B.1.				
Project participant response				Date: 19/07/2024
Version of Tool 20 is updated to 04.1.				
Documentation provided by project participant				
PDD Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (The version number of the tool was corrected in Section B.1.)				

CAR ID	2	Section no.	B.3	Date: 11/07/2024
Description of CAR				
Please re-justify “Emissions of CH ₄ from the reservoir, CO ₂ emissions from combustion of fossil fuels for electricity generation” in Section B.3. CH ₄ emissions are not calculated for determining emission reductions of the project activity.				
Project participant response				Date: 19/07/2024
Section B.3 is revised as per applied methodology.				
Documentation provided by project participant				
PDD Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (Section B.3 was revised accordingly.)				

CAR ID	3	Section no.	B.6.1	Date: 11/07/2024
Description of CAR				
Please revise “second crediting period” terms throughout the PDD (e.g. Sections B.6.1, B.7.1, E.1 and so on).				
Project participant response				Date: 19/07/2024
“Second crediting period” terms are revised as “third crediting period” throughout the PDD.				
Documentation provided by project participant				
PDD Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (The relevant terms were corrected throughout the PDD.)				

CAR ID	4	Section no.	B.6.4	Date: 11/07/2024
Description of CAR				
Please correct the end date of the crediting period in Section B.6.4.				
Project participant response				Date: 19/07/2024
End date of the crediting period is revised as 31/03/2031 in Section B.6.4.				
Documentation provided by project participant				
PDD Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (The end date of the crediting period was corrected in Section B.6.4.)				

CAR ID	5	Section no.	B.7.1	Date: 11/07/2024
Description of CAR				
Please correct the start date of the crediting period in Section B.7.1 (page 39).				
Project participant response				Date: 19/07/2024
Start date of the crediting period is revised as 01/04/2024 in Section B.7.1.				
Documentation provided by project participant				
DOE assessment				Date: 22/07/2024

Review-1: Ok Closed (The start date of the crediting period was corrected in Section B.7.1.)				
CAR ID	6	Section no.	B.7.3	Date: 11/07/2024
Description of CAR				
In Section B.7.3, it is stated that “The emission reduction calculations are done by AEDAŞ records. The records of EPIAS are used for cross-check of the AEDAŞ values.”. However, AEDAŞ records are actually EPIAS records. Please clarify this issue.				
Project participant response				Date: 19/07/2024
The emission reduction calculations are determined using by EPIAS records. The records of TEIAS (OSOS) are used for cross-check of the EPIAS values. Same statement is included in Section B.7.3 and sample documents for EPIAS Records and TEIAS Records (OSOS forms) are shared for review.				
Documentation provided by project participant				
PDD Version 2.0 EPIAS Records and TEIAS Records (OSOS forms)				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (The statement was revised accordingly.)				
CAR ID	7	Section no.	E	Date: 11/07/2024
Description of CAR				
a) During the site visit, it was learned that there is no place called “Yenimahalle Neighbourhood”. Instead, please indicate “Çağlayan Neighbourhood” in the relevant sections of the PDD. b) Please revise “Received complaints in” in Section E.1 since these complaints are related to the second crediting period.				
Project participant response				Date: 19/07/2024
a) Section E.1 and E.2 is revised in the requested manner. b) Received complaints part in Section E.1 is revised.				
Documentation provided by project participant				
PDD Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: a) Ok Closed (The village name was corrected throughout the PDD.) b) Ok Closed (Section E.1 was revised accordingly.)				
CAR ID	8	Section no.	Appendix 1	Date: 11/07/2024
Description of CAR				
Please complete Appendix 1 in the PDD.				
Project participant response				Date: 19/07/2024
Appendix 1 is completed.				
Documentation provided by project participant				
PDD Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (Appendix 1 was completed.)				
CAR ID	9	Section no.	ER Calculation Excel Sheet	Date: 11/07/2024
Description of CAR				
Please correct the values in Cells “H11” and “H12” in “Cover Page” Excel spreadsheet.				
Project participant response				Date: 19/07/2024
Cells “H11” and “H12” in “Cover Page” Excel spreadsheet are corrected.				
Documentation provided by project participant				
ER calculation sheet Version 2.0				
DOE assessment				Date: 22/07/2024
Review-1: Ok Closed (ER Excel Sheet was revised accordingly.)				

Table 4. FAR from this verification

FAR ID	Section No.	Date:
Description of FAR		
N/A		
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.