



**Verified Carbon
Standard**

EGLENCE I-II HYDROELECTRIC POWER PLANT 2ND VERIFICATION REPORT

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Client	Egenda Ege Enerji Uretim A.Ş.
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Summary:

RINA Services S.p.A. (RINA), commissioned by Egenda Ege Enerji Üretim A.Ş., has verified the greenhouse gas emission reductions reported for the project activity “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, VCS Registration Reference N° 1221, for the period 01/01/2021 to 09/04/2023 with regard to the relevant requirements for CDM and VCS activities.

The objective of the verification is to have an independent review ex post determination of the monitored reductions in GHG emission reductions, reported for the “EGLENCE I-II HYDROELECTRIC POWER PLANT” project in Türkiye for the period 01/01/2021 to 09/04/2023.

Verification was conducted using RINA procedures in line with the requirements specified in the VCS Version 4.7 Requirements, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques. The verification consisted of desk review, on-site assessment and the resolution of outstanding issues and the issuance of the final verification report and certification.

The verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable VCS Version 4.7 requirements, which refer to CDM rules, in order to be certified.

In conclusion, it is RINA's opinion that the project activity “EGLENCE I-II HYDROELECTRIC POWER PLANT”, in “Türkiye”, as described in the Monitoring Report version 05 of 17/02/2025, meets all relevant requirements for VCS and CDM activities and all relevant host Party criteria and correctly applies the baseline and monitoring methodology “ACM0002”, “Consolidated methodology for grid connected electricity generation”, version 13.0 of 11/05/2012. Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/01/2021 to 09/04/2023 amount to 153,507 tCO₂e. During this monitoring period, 10 CAR and 10 CR are raised and closed.

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1 INTRODUCTION

1.1 Objective

The objective of the verification is to have an independent review ex post determination by a Validation and Verification Body (VVB) of the monitored reductions in GHG emissions that have occurred as a result of the registered VCS project activity during a defined monitoring period. Certification is the written assurance by the VVB that, during a specific time period, a proposed VCS project activity achieved the reductions in anthropogenic emissions by sources of GHGs as verified.

The objective of this verification/certification was to verify and certify emission reductions and effective implementation of the monitoring of sustainable development indicators and mitigation measures, reported for the “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye for the period 01/01/2021 to 09/04/2023.

1.2 Scope and Criteria

The verification scope is:

- to verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- to evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- to verify that reported GHG emission data is sufficiently supported by evidence;
- to evaluate whether all the mitigation measures have been effectively put in place according to the monitoring plan and that all the sustainable development indicators have been correctly monitored.

Verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable VCS Version 4.7 requirements, which refer to CDM rules, in order to be certified.

UNFCCC criteria for CDM refer to Article 12 of the Kyoto Protocol, the CDM modalities and procedures, and the subsequent decisions by the CDM Executive Board.

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.

1.3 Level of Assurance

All the revisions of the verification report, before being submitted to the client, were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions. All evidence had been confirmed during site visit with the invoices of electricity generation. The level of assurance is reasonable.

The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for VCS and CDM validation and verification. The verification team and the technical reviewers consist of the following personnel:

Role/Qualification	Last Name	First Name	Country
VCS Team Leader – VCS Verifier – Technical Expert	ATABEK	Fikriye Seda	Türkiye
Independent Technical Reviewer	ERDOĞAN	Mehmet	RINA Türkiye

1.4 Summary Description of the Project

Egenda Ege Enerji Uretim A.Ş. has commissioned RINA to carry out the verification of emission reductions reported for the registered “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, VCS Registration Reference N° 1221, for the period 01/01/2021 to 09/04/2023.

The project site is located on the Eglence river in Türkiye’s Mediterranean Region, within the Karaisali district of Adana province. Eglence I-II consists of construction of a green field project with 70.98 MWm / 68.65 MWe of installed capacity comprising two weirs and two power houses (Upstream one is Eglence I and downstream one is Eglence II). The installed capacity of the Eglence I HEPP is 42.65 MWe and the installed capacity of the Eglence II HEPP is 26.00 MWe. The installed capacity of the Eglence I and Eglence II HEPPs are revised as 72,55 MWm/ 70,7MWe (44.55 MWm/43.5 Mwe and 28 MWm/27.2 Mwe, respectively) due to change in electromechanic equipment. The capacity has been confirmed through the Generation License [/13/](#). This revision does not affect the additionality of the project.

A regulator at a talweg elevation of 693.0 meters within the borders of Yenikoy district exists. The rising water is first taken to a sedimentation pool followed by a two-peace conveyance tunnel. There is a conduit between them. With the aid of a shaft, water is transferred to the Eglence I powerhouse. The tail water coming out of Eglence I power station is transferred to the conveyance tunnel after which water is first transferred to a head pond and a penstock. Finally, water is transported to the Eglence II powerhouse, founding on the right bank of the river. Each powerhouse is comprised of three turbines.

According to registered PD, the project is to generate approximately 205,299 MWh/year of electricity to supply the national grid. The average annual emission reduction of the project is estimated to be 114,065 tonnes of CO₂. However, in this monitoring period (around 2.3 years), the project generated 121,648.87 MWh electricity per annum and therefore reduced 67,588 tonnes CO₂/year. The project activity reduces greenhouse gases (GHGs) emissions that would have otherwise occurred in the absence of the project activity because electricity generation from fossil fuel sources is avoided.

According to the methodology, baseline scenario was identified 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”.

The project boundary in the registered VCS PD [/1/](#) is in line with the actual project boundary. The generated electricity is fed to the national grid. The generated electricity is transmitted to the National Electricity Transmission Grid of Türkiye through 154 kV transmission lines through Eglence-2/Karaisali transformer substations. The geographic coordinates of the project activity are confirmed through the registered PDD [/1/](#).

The GHG benefit of the project activity was only accounted under VCS. Double counting issue has been assessed and the validation team has checked the ICR project database (Carbon Projects (carbonregistry.com)), GS project database (<https://www.goldstandard.org/resources/impact-registry>), GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects), BCR project database (Global CarbonTrace) and CerCarbono database (EcoRegistry) were checked and this project is not available within ICR, GS, GCC, BCR and CERCARBONO projects' databases, either. The project does not appear on VCS, GS, GCC, BCR and CERCARBONO registries, it could be confirmed that no other VER carbon credits are being issued for the project. Furthermore, as a host country in Türkiye such any program like a government-regulated system or program for the constraint and monetization of GHG emissions (such as emissions trading scheme, cap and trade or carbon tax mechanisms) has not been implemented.

Milestone	Date
Generation License (Final Amendment Date)	27/12/2007
Environmental Impact Assessment (Approval)	Egience I: 28/07/2010 Egience II: 30/07/2010
Construction Agreement – Investment decision date	14/12/2010
Loan Agreement	07/07/2011
VCS Registration Date	25/12/2013
Environmental Impact Assessment (EIA exempt – Capacity Revision)	Egience I: 21/01/2014 Egience II: 27/05/2013
Commissioning of the Egience-I HEPP	04/06/2013
Commissioning of the Egience-II HEPP	26/03/2013
Project Start Date (confirmed through the Egience II Commissioning date by validation)	10/04/2013
First Monitoring Period	10/04/2013 – 31/12/2020
Second Monitoring Period	01/01/2021 – 09/04/2023

Technical Properties

Location	Karaisali District, Adana Province, Türkiye
Total Installed Capacity	70.98 MWm / 68.65 MWe
Number Of Units	3+3
Turbine Capacity Eglence I	8.53 + 2x17.55 MWm / 8.25 + 2x17.20 MWe
Turbine Capacity Eglence II	5.63 + 2x 10.86 MWm / 5 + 2x 10.5 MWe
Total Installed Capacity Eglence I	43.63 MWm / 42.65 MWe
Total Installed Capacity Eglence II	27.35 MWm / 26.00 MWe
Turbine Type Eglence I	Vertical Axis Francis Turbines
Turbine Type Eglence II	Horizontal Axis Francis Turbines
Average Annual Power Generation	205,299 MWh

The main goals of the Eglence I-II HEPP project include;

- Using Türkiye's hydroelectric potential to meet the increasing demand for electricity and contributing toward the guarantee of Türkiye's energy security.
- Increase the share of run of river type HEPPs in the mix of electricity generation in Türkiye, reduce dependency on imported fossil fuel and as a consequence provide a tangible reduction in GHG emissions.
- Contribute to economic development by creating direct and indirect job opportunities during the construction and operation phases.

Sectoral scope of the project is "Scope 1: Energy Industry - Renewable -/Non-renewable Sources".

Project start date is 10 April 2013 when the commissioning of Eglence II HEPP occurs.

The coordinates for the Eglence I and II are as follows, verified on site:

Eglence I: 695 000 – 696 000 N / 4 148 000 – 4 149 000 E

Eglence II: 695 000 – 696 000 N / 4 142 000 – 4 143 000 E

Project Participant(s)	Egenda Ege Enerji Uretim A.Ş.
Project Title	EGLENCE I-II HYDROELECTRIC POWER PLANT
Location of the project	Eglence river in Türkiye's Mediterranean Region, within the Karaisali district of Adana province, Türkiye
Methodology(ies)	"ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources", version 13.0
Sectoral Scope(s)	1
RINA's Technical Area(s)	1.2
Registered VCS PD	V6 of 29/09/2013
VCS Registration Reference No	1221
Starting Date of the Crediting Period	10 April 2013
Project's crediting period	10 April 2013 to 09 April 2023 (CP1)
Monitoring period	01 January 2021 to 09 April 2023
Project Documentation link	https://registry.verra.org/app/projectDetail/VCS/1221

2 VERIFICATION PROCESS

The project was validated by Bureau Veritas Certification, version 03 on 07/10/2013 and it was registered under the VCS registration reference N° 1221 for the first crediting period. This is the second verification assessment of first CP for the monitoring period 01/01/2021 to 09/04/2023 by RINA.

Project Start Date (confirmed through the Egence II Commissioning date by validation)	10/04/2013
First Crediting Period	10/04/2013-09/04/2023
First Monitoring Period	10/04/2013 – 31/12/2020
Second Monitoring Period	01/01/2021 – 09/04/2023
Second Crediting Period	10/04/2023 – 09/04/2033

2.1 Method and Criteria

Verification was conducted using RINA's procedures in line with the requirements specified in the VCS Standard version 4.7, VCS Program Guide version 4.4 requirements, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques.

The verification consisted of the following three phases:

- Document review;
- On-site assessment;
- The resolution of outstanding issues and the issuance of the final verification report.

2.2 Document Review

The monitoring report, version 05 of 17/02/2025 and previous version /2/, the emission reduction calculations provided in the form of a spreadsheet, "ER Calculation Sheet_Egence I-II_2ND MR"/8/, the approved baseline and monitoring methodology ACM0002 version 13.0 /6/ and all the documentation provided to support the monitoring period /01 – 27/ were assessed as part of the verification. In addition, the VCS Project Description (VCS PD) /1/, in particular as regards the baseline estimations and the monitoring plan, and the Validation Report /7/ for the project, were reviewed.

All supporting documents are shared in appendix that was reviewed during the verification.

2.3 Interviews

The Plant Manager was interviewed during site visit. To see how the monitoring procedures were implemented, the whole process was explained to the verification team. The carbon consultant was interviewed about the monitoring report and related parameters. Whole process related

emission reduction calculation was explained. The mukhtar was interviewed. They confirmed that no grievance was announced by the stakeholders. The key personnel interviewed, and the main topics of the interviews are summarized in the table below:

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	ATABEK	Fikriye Seda	Lead Auditor/TL	12/02/2024	Description of the project activity, Emission reductions calculations, Monitoring plan and monitoring arrangements, Environmental and social impacts Monitoring Equipment	Mehmet ERDOĞAN
2.	ERDOĞAN	Mehmet	Lead Auditor/TL			
3.	TAŞDELEN	Rozeran	Carbon Consultant			
4.	A.	Duran	Egenda Ege En. Operation Chief			
5.	Ö.	Haşim	Egenda Ege En. Operation Man.			
6.	K.	Sefa	Egenda Ege En. Shift Op.			
7.	S.	Mahmut	Boztahta Village Mukhtar		Benefit of the project activity Complaints about project Contact details of the project proponents Tail Water Local Employment	
8.	E.	Sami	Boztahta Village Stakeholder			
9.	S.	Yakup	Boztahta Village Stakeholder			
10.	S.	Emine	Boztahta Village Stakeholder			
11.	S.	Dürdane	Boztahta Village Stakeholder			
12.	E.	Nuriye	Boztahta Village Stakeholder			

2.4 Site Visits

On 12/02/2024, RINA performed a site visit for the hydro power plant located in Adana Province of Türkiye. During the site visit for the project, it was confirmed that all the equipment and the systems were accessible. RINA assessed the implementation and operation of the proposed project activity, reviewed the information flows for generating, aggregating and reporting the monitoring parameters, 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, checked the monitoring equipment including calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions, 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.

- Capacity confirmed to be 43.5 MWe for Eglence 1 and 27.2 Mwe for Eglence 2 (after revision of licence).
- Employment is 14 employees for Eglence 1 and 11 employees for Eglence 2. Five of them are from nearby villages. No subcontractors.
- Posyagbasan Village near to Eglence 1 regulator, Etekli Village near Eglence 1 power house and Eglence 2 regulator, Merkezboztahta Village near Eglence 2 power house.
- No expropriation is done. No complaints, no courts.
- Donations of project owner are:
 - Mosque renovation, Etekli village preschool renovation
 - Cemetary garden wall restored.
- Grievance is easy and project manager can easily be reached by phone.
- Fish life has decreased but not due to plant but the mines upstream.

2.5 Resolution of Findings

The objective of this phase of the verification is to resolve any outstanding issues, which need to be clarified for RINA's positive conclusion on the monitoring report and emission reductions.

To guarantee transparency a verification protocol has been customized for the project. The protocol shows in a transparent manner the requirements, means of verification and the results from verifying the identified criteria. The verification protocol consists of three tables; the different columns in these tables are described in the figure below (see Figure 1).

A corrective action request (CAR) is raised if one of the following occurs:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impair the estimate of emission reductions;
- Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.

A clarification request (CR) is raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements, which refer to CDM rules, have been met.

During this monitoring period, 10 CAR and 10 CR are raised and closed.

Figure 1 Verification protocol tables

Verification Protocol, Table 1 - Requirement checklist					
Checklist Question	Ref.	MoV	Comments	Draft Conclusion	Final Conclusion
Checklist questions organized in seven different sections.	Makes reference to documents where the answer to the checklist question or item is found.	Explain how conformance with the checklist question is investigated. Examples are document review (DR), interview or any other follow-up actions (I), cross checking (CC) with available information relating to projects, (N/A) means not applicable.	The discussion on how the conclusion is arrived at and the conclusion on the compliance with checklist question so far.	For CAR, CR and FAR see the definitions above.	OK is used if the information and evidence provided is adequate to demonstrate compliance with VCS requirements which refer to CDM rules.

Verification Protocol, Table 2: Resolution of Corrective Action Requests and Clarification			
Corrective action and/or requests clarification requests	Reference to Table 1	Response by project participants	Verification Conclusion
The CAR and/or CRs raised in table 1 are repeated here.	Reference to the checklist question number in Table 1 where the CAR or CR is explained.	The responses given by the project participants to address the CARs and/or CRs.	The verification team's assessment and final conclusion of the CARs and/or CRs.

Verification Protocol, Table 3 - Forward Action Requests		
Forward action request	Reference to Table 1	Response by project participants Verification Conclusion
The FAR raised in table 1 is repeated here.	Reference to the checklist question number in Table 1 where the FAR is explained.	Response by the project participants on how forward action request will be addressed.

2.5.1 Forward Action Requests

According to the e-mail sent by VCS /11/ and previous verification /21/ Report, no FAR is raised.

2.6 Eligibility for Validation Activities

The project activity is registered under VCS registration reference Number 1221 /11/; hence this section is not applicable.

3 VALIDATION FINDINGS

In the registered VCS PD for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, version 6 of 25/09/2013 [/1/](#), the project activity has a total installed capacity of 70.98 MWm / 68.65 MWe as confirmed through the Generation License [/13/](#). The average electricity generation is estimated as 205,299 MWh as per *the* registered VCS PD [/1/](#). The additionality of the project activity is demonstrated by applying investment analysis registered VCS PD [/1/](#).

The project was validated by Bureau Veritas on 07/10/2013 [/7/](#) and it was registered under the VCS registration reference N° 1221.

3.1 Methodology Deviations

There is no methodology deviation in this monitoring period or previous monitoring periods.

3.2 Project Description Deviations

VVB confirms that these deviations listed below do not impact the applicability of the methodology, the project additionality or the appropriateness of the baseline scenario.

Revisions in Installed Capacity of the Plants

According to registered PDD (version 06, dated 25/09/2013), the installed capacities of the Eğlence I and Eğlence II HEPPs are revised as 42.65 MWe and 26.00 MWe which makes a total capacity of 68.65 MWe. These amendments are stated in the approved PDD (version 06, dated 25/09/2013) and the Revised Generation License as well. It is stated in the approved PDD page 3 that the installed capacity of Eğlence I will be 42.65 MWe, generating approximately 127,280 MWh of clean energy per annum, while the installed capacity of Eğlence II will be 26.00 MWe, generating approximately 78,019 MWh of clean energy per annum. In total the electricity generation was taken as (127,280 MWh (Eğlence II) + 78,019 MWh (Eğlence I) 205,299 MWh/year. The referred capacities of 42.65 MWe and 26.00 MWe can be seen as amendments in the tables below.

After this amendment, the capacity of the plant is changed again with an amendment, and on 20.02.2018 Energy Market Regulatory Board approved that the capacity of the Eğlence I and Eğlence II HEPPs are revised as 43.50 MWe and 27.2 MWe, respectively. With this revision, the total capacity is revised as 70.70 MWe. As explained in the Letter of the Ministry of Environment and Urbanisation, the change in capacity is conducted only due to change in electromechanic equipment i.e., in this case a new turbine installation. As a result of the review, it was understood that the project installed capacity, and a new turbine should be installed due to the differences in the project elevations that measured earlier, without any changes in the project flow rate and project units. It has been understood that the planned facility locations have not been changed, only a new turbine should be installed instead of the existing turbine according to the changes in the elevations.

Although the installed capacities of the plants are revised as 44.55 MWm/43.5 MWe and 28 MWm/27.2 MWe for Eğlence I and Eğlence II HEPPs, the corresponding electricity generations remain same as 78,019 MWh/year and 127,280 MWh/year, for Eğlence I and Eğlence II HEPPs, respectively. According to Letter of the Ministry of Environment and Urbanisation dated 24.04.2018, this revision is performed due to change only in electromechanic equipment. According to the referred letter, Feasibility Report is submitted to DSI (State Hydraulic Works) and this report is approved and the capacity of the plants are revised.

According to VCS Standard Version 4.7 paragraph 3.21.2, in case of project deviations Annex 3: CDM Guidelines on assessment of different types of changes from the project activity as described in the registered PDD – Version 01 should be followed. According to Annex 3 paragraph 4, the changes that affect the additionality of the project activity includes changes in the effective output capacity due to increased installed capacity. As stated above, the installed capacities of the plants are revised due to change in elevations. However, as can be seen in the Revised Generation Licenses, the effective output capacity, i.e., electricity generation, did not change. In the registered PD page 38, the grid connected output is stated as 205,299 MWh (127,280 MWh (Eğlence II) + 78,019 MWh (Eğlence I) = 205,299 MWh) and this figure is used in the investment analysis as it can be seen in the registered PD page 35, Energy Production. Although the capacity of the plants is revised, the assigned generations, i.e., effective output, remained the same. Thus, the investment analysis conducted in the registered PD remains the same and it is still applicable.

The described deviation needs to be assessed in terms of methodology applicability and the baseline scenario as well. The applicability conditions stated in the ACM0002 Consolidated baseline methodology for grid-connected electricity generation from renewable sources – Version 13.0.0 and in terms of these conditions the project is assessed as follows:

- Eğlence I-II HEPP Project is still a grid connected renewable power generation project activity that is installed as a new power plant at a site where no renewable power plant was operated prior to the implementation of the project activity (greenfield plant). The project activity involves the installation of a power plant of hydro power.
- The power density of the power plant, as per definitions given in the Project Emissions section of ACM0002 / Version 13 0.0, is much greater than 4 W/m² as calculated in section 5.2.
- The project does not involve switching from fossil fuels to renewable energy at the site of the project activity,
- The project involves construction of new units in a brand-new plant, in other words the project does neither involve the addition of renewable energy generation units at an existing renewable power generation facility, nor does it foresee to retrofit or modify an expired facility of renewable energy generation.

In terms of baseline scenario according to ACM0002 V13.0.0., the baseline scenario is still the Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”.

In this regard, the ACM0002 – Version 13.0.0 and the baseline scenario identified in the approved PDD, are still applicable to the project and the explained project description deviation did not affect the applicability of the applied methodology.

The amendments in the licenses are as follows:

Eğlence I – Amendment in plant capacity (as per page 5 of the Revised Generation License)	Eğlence I – New Capacity as Mwe and Effective Output (as per page 1 of the Revised Generation License)	Eğlence I – Capacity and Effective Output (as per approved PDD page 3 paragraph 19)																																							
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Eğlence II – Amendment in plant capacity (as per page 5 of the Revised Generation License)	Eğlence II – New Capacity as Mwe and Effective Output (as per page 1 of the Revised Generation License)	Eğlence II – Capacity and Effective Output (as per approved PDD page 3 paragraph 19)									
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11	Üretim tesisine ilişkin bilgiler Ünitede kurulu güçleri: [5,63+(2x10,86)] MWm/ [5,00+(2x10,50)] MWe Tesis toplam kurulu gücü: 27,35 MWm / 26,00 MWe Tesis tamamlanma tarihi: 27/06/2013 İnşaat öncesi 22 ay İnşaat dönemi 44 ay değiştirilmiştir.	25/01/2018 tarihi ve 7655/8 sayılı Kurul Kararı									
Tesis toplam kurulu gücü	: 28 MWm / 27,2 MWe										
Yakıt türü veya türleri	: Hidrolik										
Öngörülen ortalama yıllık üretim miktarı	: 78.019.000 kWh										

The realized ERs are around 40% lower than estimated so it is concluded by the VVB that this minor increase in capacity does not affect the additionality of the project.

3.3 New Project Activity Instances in Grouped Projects

This project is not a grouped project. Hence, this section is not applicable.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

It was verified during the site visit conducted on 12/02/2024 that the proposed project activity has been implemented and it is in operation in accordance to the project activity described in the registered VCS PD [/1/](#).

The carbon crediting period and therefore the monitoring starts when the plant commences electricity generation. Therefore, the first crediting period was from 10/04/2013 until 09/04/2023 with one time renewable crediting period of 10 years. The project site is located on the Eglence river in Türkiye's Mediterranean Region, within the Karaisali district of Adana province. Eglence I-II consists of construction of a green field project with 70.98 MWm / 68.65 MWe of installed capacity comprising two weirs and two power houses (Upstream one is Eglence I and downstream one is Eglence II). The installed capacity of the Eglence I HEPP is 42.65 MWe and the installed capacity of the Eglence II HEPP is 26.00 MWe. The installed capacity of the Eglence I and Eglence II HEPPs are revised as 72,55 MWm/ 70,7Mwe (44.55 MWm/43.5 Mwe and 28 MWm/27.2 MWe, respectively) due to change in electromechanic equipment. The capacity has been confirmed through the Generation License [/13/](#).

There are not any material discrepancies between project implementation and the project description. It is verified that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan. The project activity is not participated or rejected under other GHG Programs as confirmed through the websites of the standard. No GHG related environmental credits are applied to the Turkish power sector.

The GHG benefit of the project activity was only accounted under VCS. Double counting issue has been assessed and the validation team has checked the ICR project database (Carbon Projects (carbonregistry.com)), GS project database (<https://www.goldstandard.org/resources/impact-registry>), GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects), BCR project database (Global CarbonTrace) and CerCarbano database (EcoRegistry) were checked and this project is not available within ICR, GS, GCC, BCR and CERCARBONO projects' databases, either. The project does not appear on VCS, GS, GCC, BCR and CERCARBONO registries, it could be confirmed that no other VER carbon credits are being issued for the project. 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.

There are no material discrepancies between the actual monitoring system and plan. The project contributes to SDG 7 by generating electricity from clean energy. The project also greatly supports sustainable economic development in the region. In accordance with SDG 8, employment was created during the construction and operation phases of the power plant. Compared to the business-as-usual scenario, which is considered a contribution to SDG 13, it has a significant contribution to reducing carbon emissions and protecting the climate. Therefore, the project has positive effects on sustainable development.

Item	Evidence gathering activities, evidence checked, and assessment conclusion:																				
Audit history	Audit history has been verified as below: <table><tr><th>Audit type</th><th>Period</th><th>Program</th><th>Validation/verification body name</th><th>Number of years</th></tr><tr><td>Validation/Registration</td><td>22/06/2011–23/06/2011 (audit) 10/04/2013–09/04/2023</td><td>VCS</td><td>BUREAU VERITAS</td><td>10 years</td></tr><tr><td>Verification</td><td>16/03/2021 (audit) 10/04/2013-31/12/2020</td><td>VCS</td><td>RECARBON</td><td>7.73 years</td></tr><tr><td>Verification</td><td>12/02/2024 (audit) 01/01/2021–09/04/2023</td><td>VCS</td><td>RINA</td><td>2.27 years</td></tr></table>	Audit type	Period	Program	Validation/verification body name	Number of years	Validation/Registration	22/06/2011–23/06/2011 (audit) 10/04/2013–09/04/2023	VCS	BUREAU VERITAS	10 years	Verification	16/03/2021 (audit) 10/04/2013-31/12/2020	VCS	RECARBON	7.73 years	Verification	12/02/2024 (audit) 01/01/2021–09/04/2023	VCS	RINA	2.27 years
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Verification	12/02/2024 (audit) 01/01/2021–09/04/2023	VCS	RINA	2.27 years																	
Double counting and participation under other GHG programs	- No double accounting - No other VER programs - The project has not been rejected by another GHG programs																				
No double claiming with emissions trading programs or binding emission limits	No																				
No double claiming with other forms of environmental credit	No																				
Supply chain (scope 3) emissions double claiming	The project activities don’t affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain.																				

Sustainable development contributions	The project produces electricity from renewable energy sources using hydro as the power source and to contribute to Türkiye's growing electricity demand through a sustainable and low carbon technology. The project displaces the same amount of electricity generated by the grid dominated with fossil fired power plants. The project contributes to the Sustainable Development Goal, Climate Action. During this monitoring period, the project has prevented 153,507 tCO₂ in total and 67,588 tCO₂/year into the atmosphere. The project contributes to improve the environmental situation in the region and in the country as avoiding fossil fuel-based electricity will enhance the air quality and help to reduce the negative effects on the climate. Through renewable technologies and hydro-based electricity sustainable and climate friendly development is promoted. The project contributes to the Sustainable Development Goal, Affordable and Clean Energy. The project has generated 276,292.90 MWh of electricity in total and 121,648.87 MWh/year of annual electricity in during this monitoring period. During construction and operational period, the project has created employment opportunities for the local community. The project contributes the economic development of the region by providing sustainable energy resources. The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments. The project contributes to the Sustainable Development Goal, Decent Work and Economic Growth. The project has been created permanent job opportunity for 25 people (as 14 from Eğlence I and 11 from Eğlence II).
Additional information relevant to the project	• No leakage • No commercially sensitive information • No further information.

4.2 Safeguards and Stakeholder Engagement

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
<i>Stakeholder identification</i>	The closest communities are identified as local stakeholders in the project.
<i>Legal or customary tenure/access rights</i>	No expropriation was required during the implementation period. There are no lands which was occupied by Indigenous People (IPs), local communities (LCs), and customary rights holders. No complaints received about the issue during site visit.

<i>Stakeholder diversity and changes over time</i>	There were no changes in the stakeholder diversity. The locals of the nearby villages are the stakeholders.
<i>Expected changes in well-being</i>	The project does not have any negative impacts. No complaints received about the issue during site visit.
<i>Location of stakeholders</i>	As a part of a EIA process local stakeholder consultation for Eglence I and II held on 24 th of November 2009 in Etekli Neighbourhood Karaisali Adana and 25 th of November 2009 in Boztahta Neighbourhood Karaisali Adana, respectively.
<i>Location of resources</i>	Etekli Neighbourhood and Boztahta Neighbourhood Karaisali - Adana

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	People around the region prefers face-to-face communication. Project manager is accessible by locals all the time. There is no problem encountered about the project/way of communication so far. If there is an input or grievance, locals can express them directly or via mukhtar. This has been verified via interviews with locals during site visit.
Date(s) of stakeholder consultation	For Eglence I and II held on 24 th of November 2009 in Etekli Neighbourhood Karaisali Adana and 25 th of November 2009 in Boztahta Neighbourhood Karaisali Adana, respectively.
Communication of monitored results	People around the region prefers face-to-face communication. Project manager is accessible by locals all the time. There is no problem encountered about the project/way of communication so far. If there is an input or grievance, locals can express them directly or via mukhtar. This has been verified via interviews with locals during site visit. The grievance might be negative as well as positive by local stakeholders related to the operation of the project activity. The book availability is also communicated to all local stakeholders by PP. PP

	will resolve all the grievances during whole crediting period. This has been verified via interviews with locals during site visit.
Consultation records	People around the region prefers face-to-face communication. Project manager is accessible by locals all the time. This has been verified via interviews with locals during site visit.
Stakeholder input	Stakeholders did not report any critical issues regarding the Project activity during this monitoring period. This has been verified via interviews with locals during site visit.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	As a part of the Environmental Impact Assessment of Eglence I-II project, in line with the article 9 of EIA Regulation, to incorporate stakeholders into the EIA process, apply for their comments about the project a community two community meetings were organised. The first meeting which is organised for Eglence I was held on November 24 th , 2009, in Etekli Village Coffeehouse, Karaisali, Adana. The second meeting was organised for the Eglence II part of the project on November 25 th , 2009, in Boztahta village Coffeehouse, Karaisali, Adana. Newspaper advertisements were published on a local and a national gazette to reach more people. Relevant evidence has been provided to VVB.
Outcome of FPIC discussion	At the end of both meetings, all stakeholders were content that environment-friendly energy production was going to be realized, meaning that the project does neither consume nor contaminate the Eglence river.

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	No grievance is received from the stakeholders. This has been verified via interviews with locals during site visit.
Grievance redress procedure	

4.2.5 Public Comments

No positive or negative comments received from the stakeholders. This has been verified via interviews with locals during site visit.

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A	N/A
...		

4.2.6 Risks to Local Stakeholders and the Environment

4.2.6.1 Management Experience

The management teams have expertise or experience in implementing similar project activities and engaging communities. The necessary trainings are provided to the employers before the employment.

Trainings provided are in areas of:

- Occupational Health and Safety Training
- Working at Hight Training
- Environmental Management Training
- Risk Management System Implementation Training
- Operating Technician Training

4.2.6.2 Risk Assessment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Natural and human induced risks to stakeholders' wellbeing	Stakeholder consultation process was conducted. No risk is determined.
Risks to stakeholder participation	The Project avoids community exposure to increased health risks and does not adversely affect the health of the workers and the community. No risk is determined.
Working conditions	The project does not endanger the safety of girls and women. No risk is determined.
Safety of women and girls	The project does not jeopardize the safety of minorities and isolated groups, including children. No risk is determined.
Safety of minority and marginalized groups, including children	The project activity is operated in line with Environmental Law and related regulations. Water Pollution Control Regulation, Hazardous Wastes Control Regulation, Industrial Air Pollution Control Regulation. No risk is determined.
Pollutants (air, noise, discharges to water, generation and release of hazardous materials and chemical pesticides and fertilizers)	According to EIA Report, the following precautions will be taken for the mentioned risks: Domestic wastewater will be collected and accumulated in septic tanks and disposal will be ensured and spreading to the environment will be prevented. Domestic solid wastes will be collected in sealed containers and given to Karaisali Municipality landfill. Recyclable solid wastes that can be recovered recycling of wastes will be ensured. Waste disposal records for Wastewater Disposal – Septic Truck Service Records, Hazardous and Domestic Waste Disposal have been summarised in MR and also provided to VVB. During the operation activities, only noise will be generated from the power plant. This noise is indoor noise and is not expected to have a negative impact on the environment. There has been no negative comments from stakeholders on the issue.

	To prevent the negative impact of the power plant on the stream bed, lifeline support water will be released to the stream. Records showing that minimum water has been released are provided to VVB. There is no impact on the natural ecosystem of the region.
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4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination	No discrimination occurred. Türkiye is a party of IPEC since 1932 and ratified ILO convention.
Sexual harassment	No sexual harassment occurred. Türkiye is a party of IPEC since 1932 and ratified ILO convention.
Gender equity in labor and work	Equal opportunities have been provided in the context of gender equity and pay for labor and work. Türkiye has ratified ILO convention which provides gender equality.
Forced labor	Project does not use victims of human trafficking, forced labor, and child labor. Türkiye has ratified ILO convention. All the workers are socially secured by the PO and protected by employment agreements. If any complaint is received by the PO, they will act on the issue right away throughout the lifetime of project activity.
Child labor	
Human trafficking	

4.2.7.2 Human Rights

The PO recognizes, respects, and promotes the protection of the rights of LCs, and customary rights holders in line with applicable international human rights law. Türkiye has ratified ILO convention. PO will never be complicit in violence or human rights abuses. If any complaint is received by the PO, they will act on the issue right away throughout the lifetime of project.

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.7.3 Indigenous Peoples and Cultural Heritage

There are no lands which was occupied by IPs.

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.7.4 Property Rights

No expropriation was required during the implementation period.

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.7.5 Benefit Sharing

The project does not impact property rights. So, this section is N/A.

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	N/A
Benefit sharing during the monitoring period	N/A

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	According to EIA Report, since the flow rate between the regulator and the power plant will decrease, the aquatic ecosystem will be affected. This effect will be minimised with the lifeline support water to be released.
Soil degradation and soil erosion	No risks identified.

Water consumption and stress	According to EIA Report, since the flow rate between the regulator and the power plant will decrease, the aquatic ecosystem will be affected. This effect will be minimised with the lifeline support water to be released.
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4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	According to EIA Report, there are no areas, biosphere reserves, biotopes, biogenetic reserve areas that are important for scientific research and/or habitats of endangered or endangered species and species endemic to the country.
Areas needed for habitat connectivity	-
...	...

	Evidence gathering activities, evidence checked, and assessment conclusion
Habitats for rare, threatened, and endangered species	No risk has been identified.
Areas for habitat connectivity	No risk has been identified.

4.2.8.2 Introduction of Species

There is no introduction of species.

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

There are no invasive species.

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
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N/A	N/A
Evidence gathering activities, evidence checked, and assessment conclusion	
Invasive species	N/A

4.2.8.3 Ecosystem conversion

This project is not an ARR, ALM, WRC, or ACoGS project.

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

4.3 Accuracy of Reduction and Removal Calculations

The emission reduction calculations provided in the spreadsheet [/8/](#) have been verified to be correct and in line with the registered VCS PD [/1/](#). According to the applied methodology “ACM0002”, “Consolidated baseline methodology for grid-connected electricity from renewable sources”, version 13.0 [/6/](#), the emission reductions have been calculated based on the following formula:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

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

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

LE_y = Leakage emissions in year y (tCO₂e/yr)

Baseline emissions

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.

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

Where:

EG_{PJ,y} = Net electricity delivered to the grid by the project activity in year y excluding transmission losses of the grid (MWh)

EF_{grid,CM,y} = Combined margin grid emission factor (tCO₂/MWh)

Project emissions

For most renewable energy project activities, PE_y = 0. However, for the following categories of project activities, project emissions have to be considered following the procedure described in ACM0002 v13.0.0.

- Emissions related to the operation of geothermal power plants (e.g. non-condensable gases, electricity/fossil fuel consumption)
- Emissions from water reservoirs of hydro power plants”

Therefore, as per ACM0002 : Grid-connected electricity generation from renewable sources, v13.0.0

The proposed project activity involves the generation of electricity by hydroelectric power plant therefore project activity does not result in greenhouse gas emissions.

$$PE_y = PE_{FF,y} + PE_{GP,y} + PE_{HP,y}$$

Where:

PE_y = Project emissions in year y (t CO_{2e}/yr)

$PE_{FF,y}$ = Project emissions from fossil fuel consumption in year y (t CO₂/yr)

$PE_{GP,y}$ = Project emissions from the operation of dry, flash steam or binary geothermal power plants in year y (t CO_{2e}/yr)

$PE_{HP,y}$ = Project emissions from water reservoirs of hydro power plants in year y (t CO_{2e}/yr)

- Since this project uses hydroelectric power, $PE_{GP,y}$ is “0” (t CO₂/yr)
- The only emission source in the plant is the diesel generator which is used as auxiliary power source when there is no electricity generation in the plant or supply by the grid. In urgent cases, a diesel-powered generator will be operated for the daily consumption of personnel and the building, which is negligible. Project emissions are taken as zero. The same is also stated in para 33 of “ACM0002: Grid-connected electricity generation from renewable sources” v13.0.0. Hence it is neglected. Therefore; $PE_{FF,y} = 0$ (t CO₂/yr)

Beside of the diesel generator, other potential project emission for this proposed project is $PE_{HP,y}$.

However, if the power density of the project activity is greater than 10 W/m² than $PE_{HP,y} = 0$

The power density (PD) of the project activity 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 (m^2)

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 (m^2). For new reservoirs, this value is zero.

		EGLENCE I	EGLENCE II
Parameter	Description & Unit	Value	Value
Cap_{PJ}	Power density of the project activity (W/m^2)	42,650,000	26,000,000
Cap_{BL}	Installed capacity of the hydro power plant after the implementation of the project activity (W)	0	0
A_{PJ}	Installed capacity of the hydro power plant before the implementation of the project activity (W). For new hydro power plants, this value is zero	63,270	14,604
A_{BL}	Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m^2)	0	0
PD	Area of the reservoir measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m^2). For new reservoirs, this value is zero.	674.10	1,780.36

Since the power density values for both plants are greater than $10 W/m^2$, $PE_{HP,y}$ is taken as 0. $PE_{GP,y}$, $PE_{FF,y}$ and $PE_{HP,y}$ are equal to 0 as described above. In this regard, PE_y adds up to 0.

In the registered VCS PD for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, version 06 of 25/09/2013 /1/, it was confirmed that there is no need to calculate power density since the project activity has no reservoir.

Leakage emissions

The leakage emissions are assumed to be zero as per the ACM0002 version 13.0 /6/ as defined in the registered VCS PD /1/. The data presented in the monitoring report /2/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidence was presented and verified by RINA for the reported emission reductions.

Parameters Available at Validation and Data Fixed Ex-ante

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
FC_{i,y} Amount of fossil fuel type i consumed in the project electricity system in year y	TEIAS statistics	Validated VCS Project Description (Version 6) of the Project, section 4	According to the Tool to Calculate the Emission Factor for an Electricity System version 07.0, the national average default value shall be used if values are reliable and documented in regional or national energy statistics / energy balances. TEIAS (Turkish Electricity Transmission Company) is the official source for this data, providing the most up-to-date and accurate information available. Therefore, the uncertainty for the data is low.

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
NC_{vi,y} Net calorific value of fossil fuel type	TEIAS statistics	Validated VCS Project Description (Version 6) of the Project, section 4	TEIAS (Turkish Electricity Transmission Company) is the official source for this data, providing the most up-to-date and accurate information available.

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
EF_{CO2,i,y} Default CO2 emission factor of fossil fuel type i	IPCC default values IPCC default values (as provided in Table 1.4, Chapter 1, Volume 2 (Energy), 2006 IPCC Guidelines for National Greenhouse Gas Inventory) are used.	Validated VCS Project Description (Version 6) of the Project, section 4	There is no information on the fuel specific default emission factor in Türkiye. Hence, IPCC values have been used as per the “Tool to calculate the emission factor for an electricity system (version 04.0)”.

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
Electricity Imports	TEIAS statistics	Validated VCS Project Description (Version 6) of the Project, section 4 Turkish Electricity Transmission Company (TEIAS) http://www.teias.gov.tr/istatistik2008/23.xls	TEIAS (Turkish Electricity Transmission Company) is the official source for this data, hence providing the most up to - date and accurate information available

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
Electricity capacity additions	TEIAS statistics	Validated VCS Project Description (Version 6) of the Project, section 4 38.9 TWh which is 20 percent of the overall generation of 194.8 TWh.	TEIAS (Turkish Electricity Transmission Company) is the official source for this data, hence providing the most up to- date and accurate information available.

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
EF _{grid,CM,y} Baseline emission factor (for the first crediting period)	TEIAS statistics	0.5556 tCO ₂ /MWh	According to the approved methodology ACM0002 version 13.0, 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 emission factor is determined to be 0. 5556 tCO ₂ /MWh in the VCS PD /1/ and validation report /7/.

Parameters and Data Monitored

Data / Parameter	EG _{PJ,facility,y}
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project plant to the grid in year y
Source of data	Electricity meters, EPIAS records and Meter reading records-OSF forms
Description of measurement methods and procedures to be applied	EPIAS records and meter reading records provides the exact electricity generation of the facility and the imports from the grid. According to meter reading protocols, the internal consumption of the facility was subtracted from the gross generation. The electricity generation figures are based on the EPIAS records /14/ and the OSOS Records /15/ are used for crosscheck.

	PMUM (now EPIAS) (formerly PMUM, the change happened on 01/09/2015 after EPIAŞ received Market Operating License. Market operations transferred from PMUM to EPIAŞ.)		
Frequency of monitoring/recording	Continuous measurement / Monthly recording		
Value applied	DATE	EG (MWh)	
	2021 (01/01/2021-31/12/2021)	82.679,99	
	2022 (01/01/2022-31/12/2022)	166.563,70	
	2023 (01/01/2023-09/04/2023)	27.049,22	
	Total EG	276.292,90	
	EG for per annum	121.649	
	The project has generated 276,292.90 MWh of electricity in total and 121,648.87 MWh/year of annual electricity in during this monitoring period.		
Monitoring equipment	The electricity meters are replaced on 22.05.2021. According to registered MR of 10/04/2013-31/12/2020 period (CP1, MP1), the previous meters in Eğlence I HEPP were commissioned and calibrated on 20/04/2013. According to the test reports of meters, the meters of Eğlence I HEPP were tested by TEIAS on 24/04/2015 and the meters of Eğlence II HEPP were tested by TEIAS on 16/10/2018 and 15/11/2020 /28/. The technical details of the replaced meters are given below.		
		Replaced Meters	
		Eğlence I HEPP	Eğlence II HEPP
		Main	Spare
	Brand	ITRON	
	Model	SL761B071	
	Standard/Class	0.5s	
	Serial No	Main: 65000771 Back-up: 65000770	Main: 65000772 Back-up: 5000773
	The technical details of the current electricity meters are given belowe.		
		Active Meters	
	Eğlence I HEPP	Eğlence II HEPP	
	Main	Spare	
Brand	EMH		

	Model	LZQJ-XC	
	Standard/Class	0.5s	
	Serial No	Main: 9798953 Back-up: 9798954	Main: 9798955 Back-up: 9798956
	Calibration Date (First Index Protocol)	Eğlence 1: 22/05/2021 Eğlence 2: 22/05/2021	
QA/QC procedures to be applied	Cross check measurements result with records for sold electricity. Calibration of the meters are valid for 10 years and meters are tested every two years by the distribution company based on related regulation¹. In addition to the meters which is used for billing purposes, records taken by meters using at project site is used for comparison. The meters also comply with EPDK regulations which define the accuracy class of the meters as 0.2S or 0.5S depending on the capacity of the circuit. The meters have the accuracy of 0.5s as confirmed through change protocol of the electricity meters /12/. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” /17/. Maintenance and calibration of the metering devices are made by TEIAS. If there is a noticeable difference between the readings of two devices, maintenance and tests of the metering devices and the associated equipment is done before waiting for the periodical maintenance. In cases where electricity meters are regulated (e.g. the electricity is supplied to the electric grid), the electricity meter is subject to regular maintenance and testing in accordance with the stipulation of the meter supplier and/or as per the requirements set by the grid operators or national requirements. The calibration of meters, including the frequency of calibration, should be done in accordance with national standards or requirements set by the meter supplier or requirements set by the grid operators. The accuracy class of the meters should be in accordance with the stipulation of the meter supplier and/or as per the requirements set by the grid operators or national requirements.		
Purpose of data	To calculate the quantity of net electricity delivered to the grid		
Calculation method	$EG_{Facility,y}=EG_{export,y}-EG_{import,y}$ (Annual electricity generation of the plant is calculated as the sum of the monthly generations obtained from EPIAS records. After deducting the amount of imported electricity from the generated electricity, the net electricity supplied to the grid is evaluated).		

¹ https://www.kayseri.bel.tr/uploads/yonetmelikler/olcu_ve_olcu_aletleri_muayne_yonetmeligi.pdf

Comments	-
Data / Parameter	CapPJ
Data unit	MW
Description	Installed capacity of the Eglence-I hydro power plant after the implementation of the project activity
Source of data	Project site
Description of measurement methods and procedures to be applied	Supplier information on the equipment
Frequency of monitoring/recording	Yearly
Value monitored	43.5 MWe
Monitoring equipment	N/A
QA/QC procedures to be applied	Supplier information on the related equipment and the existence of the equipment can be checked. Also this information can be checked from EPDK.
Purpose of the data	<i>Baseline Emission Calculations</i>
Calculation method	The parameter is monitored through the Generation License /13/
Comments	<i>No change on the installed capacity with respect to project generation license</i>

Data / Parameter	CapPJ
Data unit	MW
Description	Installed capacity of the Eglence-II hydro power plant after the implementation of the project activity
Source of data	Project site
Description of measurement methods and procedures to be applied	Supplier information on the equipment
Frequency of monitoring/recording	Yearly
Value monitored	27.20 MWe

Monitoring equipment	N/A
QA/QC procedures to be applied	Supplier information on the related equipment and the existence of the equipment can be checked. Also, this information can be checked from EPDK.
Purpose of the data	Baseline Emission Calculations
Calculation method	The parameter is monitored through the Generation License /13/
Comments	No change on the installed capacity with respect to project generation license

Data / Parameter	APJ
Data unit	m ²
Description	Area of the reservoir measured in the surface of the water for Eglence-I HEPP, after the implementation of the project activity, when the reservoir is full
Source of data	Project site
Description of measurement methods and procedures to be applied	Topographical surveys, GPS readings
Frequency of monitoring/recording	Yearly
Value monitored	Eğlence I: 63,269.84 m ²
Monitoring equipment	-
QA/QC procedures to be applied	The readings will be done during the period when the water flow is high to have the largest reservoir area
Purpose of the data	Project emission calculations
Calculation method	-
Comments	Maximum area is already calculated and confirmed through technical drawings. Annual measurements are not expected to be higher than this value.

Data / Parameter	APJ
Data unit	m ²
Description	Area of the reservoir measured in the surface of the water for Eglence-II HEPP, after the implementation of the project activity, when the reservoir is full
Source of data	Project site
Description of measurement methods and procedures to be applied	Topographical surveys, GPS readings
Frequency of monitoring/recording	Yearly
Value monitored	Eğlence II: 14,603.79 m ²
Monitoring equipment	-
QA/QC procedures to be applied	The readings will be done during the period when the water flow is high to have the largest reservoir area
Purpose of the data	<i>Project emission calculations</i>
Calculation method	-
Comments	Maximum area has already been calculated and confirmed through technical drawings. Annual measurements are not expected to be higher than this value.

Emission Reductions Achieved

The emission reductions calculation reported in the Monitoring Report version 05 of 17/02/2025 [/2/](#) and calculation spreadsheet “ER Calculation Sheet_Eglence I-II_2ND MR-v3” version 03 of 25/09/2024 [/8/](#) have been verified to be correct.

The emission reductions from the project for the monitoring period from 01/01/2021 to 09/04/2023 as reported in the Monitoring Report is equivalent to 153,507 tCO_{2e}. All data were examined without sampling and it was seen that there was no error in data transfer. RINA confirmed that GHG emission reductions and removals have been quantified correctly in accordance with the project description and applied methodology.

4.4 Quality of Evidence to Determine Reductions and Removals

EPIAS records and meter reading records provides the exact electricity generation of the facility and the imports from the grid.

According to meter reading protocols, the internal consumption of the facility was subtracted from the gross generation. The electricity generation figures are based on the EPIAS records /14/ and the OSOS Records /15/ are used for crosscheck.

The main meters are EMH-LZQJ-XC with serial number 9798953 (Eglnence-1) and 9798955 (Eglnence-2). The backup meters are EMH-LZQJ-XC with serial number 9798954 and 9798956. The meters have the accuracy of 0.5s as confirmed through change protocol of the electricity meters /12/. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” /17/. The main and back meters was changed on 22/05/2021 old main meters had serial numbers 65000771 and 65000772. The backup meters had serial number 65000770 and 65000773.

TEIAS is responsible for calibration and maintenance of the meters as per the registered VCS PD /1/. The project owner has no control on the meters since the meters are sealed by the TEIAS as confirmed during the site visit. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. The new meters were calibrated on 2021 (factory level and tested on site) as confirmed through the meter change protocol /12/. As per the “Regulation of Metering and Testing of Metering Systems” /16/, the meters shall be calibrated every 10 years, therefore the calibration of meters is deemed appropriate and in compliance with the national regulation. During on-site assessment, it was confirmed that the meters are in place and functions well. During the monitoring period, no brake down has been recorded.

The electricity generation figures are based on the EPIAS records /14/ and the Monthly Meter Readings /15/ are used for crosscheck from 01/01/2021 to 09/04/2023. The records and emission reduction calculation spreads sheet /8/ are consistent.

RINA confirmed that quantity, and appropriateness of quality, of the evidence used to determine the GHG reductions and removals are found sufficient.

4.5 Non-Permanence Risk Analysis

There is no non-permanence risk rating determined by the project proponent.

5 VERIFICATION OPINION

5.1 Verification Summary

RINA has performed the verification of the updated VCS-MR version 05 of 17/02/2025 for the project activity “EGLENCE I-II HYDROELECTRIC POWER PLANT”. The verification is performed for the 1st crediting period (from 10/04/2013 to 09/04/2023) for 2nd monitoring period (01/01/2021 to 09/04/2023). The project complies with the certification criteria for projects set out in VCS guideline version 4.7 and standard version 4.4 /4/ /5/. The project activity is likely to achieve estimated GHG emission reduction or removals. RINA also declares that GHG statement was conducted in accordance with ISO 14064-3:2019.

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, VCS Registration Reference N° 1221, for the period 01/01/2021 to 09/04/2023, with regard to the relevant requirements for CDM and VCS activities.

It is RINA’s opinion that the GHG emission reductions stated in the Monitoring Report for the “EGLENCE I-II HYDROELECTRIC POWER PLANT in Türkiye for the period 01/01/2021 to 09/04/2023 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology “ACM0002”, “Consolidated methodology for grid connected electricity generation”, version 13.0 and the monitoring plan contained in the registered VCS PD.

The project has been verified to comply with the validation criteria for the projects and the greenhouse gas emission reductions or removals specified in VCS version 4.3. It is also confirmed that the level of assurance of this verification report is reasonable.

Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/01/2021 to 09/04/2023 amount to 153,507 tCO₂e.

Verification period: From 01/01/2021 to 09/04/2023 (for the second crediting period).

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

5.2 Verification Conclusion

Verification period: From 01/01/2021 to 09/04/2023

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

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
2021 01/01/2021-31/12/2021	45,937	0	0	45,937	0	45,937
2022 01/01/2022-31/12/2022	92,542	0	0	92,542	0	92,542
2023 01/01/2023-09/04/2023	15,028	0	0	15,028	0	15,028
Total	153,507	0	0	153,507	0	153,507

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
2021 01/01/2021-31/12/2021	114,065	45,937	-60%	It should be mentioned that the electricity generation is dependent on water flow estimation and seasonal effects are significant on the monthly generation rates and deviations. According to 2022 Precipitation Evaluation Report released by Directorate General of Meteorology of Turkey, the amount of precipitation decreased for 6.5% with respect to usual amount in Mediterranean Region where Adana province is located. Also, according to 2022 Climate Report, the number of days with precipitation for the year 2022 decreased to 75 days. According to 2022-2023 Water Year 12 Month Areal Cumulative Precipitation Report, for Mediterranean Region the precipitation amount decreased by 15% with respect to normal. This precipitation decrease can be linked to percent difference between calculated and estimated values for electricity generation.
2022 01/01/2022-31/12/2022	114,065	92,542	-19%	
2023 01/01/2023-09/04/2023	30,938	15,028	-51%	
Total	259,068	153,507	-41%	

During the first monitoring period (10/04/2013-31/12/2020) according to approved MR, the annual and total emission reductions are calculated as 91,494 tCO₂/year and 706,792 tCO₂, respectively. And during this monitoring period (01/01/2021 to 09/04/2023), project has prevented 153,507 tCO₂ in total and 67,588 tCO₂/year into the atmosphere. The total emission reductions i.e., the sum of two monitoring periods, make 860,299 tCO₂.

During the first monitoring period (10/04/2013-31/12/2020) according to approved MR, the annual and total electricity generations are calculated as 164,677.24 MWh/year and 1,272,131.66 MWh, respectively. And during this monitoring period (01/01/2021 to 09/04/2023), the annual and the total electricity generations are calculated as 121,648.87 MWh/year and 276,292.90 MWh. The total electricity generation amount i.e., sum of two monitoring periods, make 1,548,424.56 MWh of electricity generation. This data has been verified via the monitoring report and verification report for MP1 /29, 30/.

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

Use the table below to describe the commercially sensitive information included in the monitoring report to be excluded in the public version.

Section	Information	Justification	Assessment method and conclusion

APPENDIX 2: SUPPORTING DOCUMENTS

/1/	VCS PD for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, version 6 of 25/09/2013
/2/	GTE, Monitoring report for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, 01 of 27/11/2023, GTE, Monitoring report for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, 02 of 23/08/2024, GTE, Monitoring report for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, 03 of 25/09/2024 GTE, Monitoring report for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, 04 of 07/11/2024 GTE, Monitoring report for “EGLENCE I-II HYDROELECTRIC POWER PLANT” in Türkiye, 05 of 17/02/2025
/3/	VCS Verified Carbon Standard: VCS Program Guide, VCS Version 4.7 of 22/06/2022
/4/	VCS Verified Carbon Standard: VCS Standard, VCS Version 4.3 of 22/06/2022
/5/	CDM Executive Board: CDM validation and verification standard for project activities, version 03.0 of 09/09/2021
/6/	CDM Executive Board: Baseline and monitoring methodology “ACM0002”, “Consolidated methodology for grid connected electricity generation”, version 13.0 of 11/05/2012
/7/	Bureau Veritas.: Validation Report for “The EGLENCE I-II HYDROELECTRIC POWER PLANT”, version 03 of 07/10/2013
/8/	GTE, Emission Reduction Calculation Spreadsheet “ER Calculation Sheet_Eglençe I-II_2ND MR” version 01 of 27/11/2023, GTE, Emission Reduction Calculation Spreadsheet “ER Calculation Sheet_Eglençe I-II_2ND MR” version 02 of 23/08/2024, GTE, Emission Reduction Calculation Spreadsheet “ER Calculation Sheet_Eglençe I-II_2ND MR” version 03 of 25/09/2024
/9/	VCS Verified Carbon Standard: VCS Verification Report Template Version 4.7 of 21/12/2022
/10/	CDM Executive Board: Methodological Tool “Tool to calculate the emission factor for an electricity system”, version 07.0 of 31/08/2018
/11/	Website: https://registry.verra.org/app/projectDetail/VCS/1221 ; Argument: Verra Database Language: English
/12/	Turkish Electricity Transmission Company (TEIAS): Change Protocol of the Electricity Meters of 22/05/2021
/13/	Energy Market Regulatory Authority: Generation License, 27/12/2007
/14/	EPIAS: Monthly Meter Reading Protocols for the monitoring period
/15/	OSOS: Monthly Meter Reading Protocols for the monitoring period
/16/	The Turkish Ministry of Trade and Industry: Regulation of Metering and Testing of Metering Systems of 24/07/1994
/17/	Turkish Energy Market Regulatory Authority: Communiqué for Measurement Devices used in the Electricity Market of 22/03/2003
/18/	The Energy Market Regulatory Authority: Electricity Market Balancing and Settlement Regulation of 14/04/2009
/19/	Minimum water records
/20/	Ministry of Environment and Forestry: EIA positive decision, dated on 28/07/2010

/21/	RE CARBON: Previous Verification Report, version 1.2 of 30/09/2021
/22/	Reservoir areas
/23/	Turkish Electricity Transmission Company (TEIAS): system usage agreement of 03/08/2018
/24/	Employment Records
/25/	Training Records
/26/	Waste disposal records
/27/	Logbook Declaration from muhtar, 19/08/2021
/28/	Meter test documents 24/04/2015, 16/10/2018, 15/11/2020
/29/	Monitoring report for previous monitoring period, 29/09/2021
/30/	Verification report for previous monitoring period, 30/09/2021

APPENDIX 3: CLARIFICATION REQUESTS, CORRECTIVE ACTION REQUESTS AND FORWARD ACTION REQUESTS

Table 1. Remaining FAR from validation and/or previous verification

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

Table 2. CR from this validation

CR ID	1	Section no.	1.1	Date: 30/04/2024
Description of CR				
Please explain what the “Environmental Impact Assessment (EIA exempt)” timeline event refers to, EIA approvals already done on 2010 and this item does not appear on timeline in registered PDD.				
Project participant response				Date: 23/08/2024
The capacity of both Eğlence 1 and 2 was increased. As explained in Final Project Presentation Files, for Eğlence 1 the capacity is increased from 43.63 MWm/42.65 Mwe to 43.63 MWm/43.5 Mwe and for Eğlence 2 the capacity is increased from 27.35 MWm/26 Mwe to 27.35 MWm/27.2 Mwe. The mentioned EIA Exempt milestone is for these processes. An explanation is added under Section 1.1. Final Project Presentation Files are shared as supporting documents.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Finalized files dated 2023 have been provided to VVB. Finding Closed.				
CR ID	2	Section no.	1.11	Date: 30/04/2024
Description of CR				
This number can not be verified: The project generated 1,548,424.56 MWh				
Project participant response				Date: 23/08/2024
1,548,424.56 MWh value was in SDG Table. The value is revised, and it can be verified now.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Revised. Finding closed.				
CR ID	3	Section no.	2.1	Date: 30/04/2024
Description of CR				
Please provide evidences regarding the MP for domestic solid waste, wastewater and waste oil, Tabulate a summary of waste disposal activities				
Project participant response				Date: 23/08/2024
A summary table is given under Section 4.3. (Table 5). The related records are shared as supporting documents. Please see EĞLENCE I_WASTE and EĞLENCE II_WASTE files.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Table provided in MR. Finding Closed.				
CR ID	4	Section no.	2.2	Date: 30/04/2024
Description of CR				
In section 2.2 please state if there is any logbook and the means of ongoing communication				
Project participant response				Date: 23/08/2024
With the update in template, please see Section 2.1.2 for ongoing communication between PO and stakeholders.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Communication details stated in MR. Finding Closed				

CR ID	5	Section no.	4.3	Date: 30/04/2024
Description of CR				
Please provide Abac curves and related minimum water measurements.				
Project participant response				Date: 23/08/2024
Flow measurement stations are under control of DSI. They regularly check the plant and measure the flow. The audit records of DSI which discloses the minimal flow released are shared as supporting documents.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Provided to VVB. Finding Closed				

CR ID	6	Section no.	4.2	Date: 30/04/2024
Description of CR				
Please provide the meter events only in this MP and tabulate them clearly providing evidences (section 4.2 and 4.3 of MR)				
Project participant response				Date: 23/08/2024
Between Monitoring Period of 01/01/2021 – 09/04/2023, the meters are only changed. The related first index protocols are shared with DOE. Under Section 4.2 and 4.3 these details are given.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
In MR please state removed meters too and mention the date of change. Not closed.				
Project participant response				Date: 25/09/2024
The replaced meters are stated under Section 4.2 and 4.3. The replacement date is also stated.				
VVB assessment				Date: 24/10/2024
Revised. Finding Closed				

CR ID	7	Section no.	5.4	Date: 30/04/2024
Description of CR				
Please provide calculations for “the total emission reductions should have been approximately 259,068 tCO2 for this monitoring period (27.3 months). Percent difference is calculated as -69% which means the project reduced -69% less CO2 than the estimated amount.”				
Project participant response				Date: 23/08/2024
The statement is revised. Please see Section 5.4 for explanation. Also, the formulas in the ER sheet can be followed.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Revised. Finding closed.				

CR ID	8	Section no.	5.4	Date:	30/04/2024																																			
Description of CR																																								
Please provide the last table of MR in excel																																								
Project participant response					Date:	23/08/2024																																		
The difference between ex ante and measured values are stated in the ER excel as below.																																								
<table border="1"> <thead> <tr> <th colspan="3">Ex-ante Estimations in PD</th> <th>% Difference between Ex ante and Calculated Values EG</th> <th>% Difference between Ex ante and Calculated Values ER</th> </tr> </thead> <tbody> <tr> <td>Expected Generation (MWh) in 2021 (01/01/2021-31/12/2021)</td> <td>205.299</td> <td>Expected Emission Reduction in 2021 (01/01/2021-31/12/2021) (tCO2)</td> <td>114.065</td> <td>-60%</td> <td>-60%</td> </tr> <tr> <td>Expected Generation (MWh) in 2022 (01/01/2022-31/12/2022)</td> <td>205.299</td> <td>Expected Emission Reduction in 2022 (01/01/2022-31/12/2022) (tCO2)</td> <td>114.065</td> <td>-19%</td> <td>-19%</td> </tr> <tr> <td>Expected Generation (MWh) in 2023 (01/01/2023-09/04/2023)</td> <td>55.684</td> <td>Expected Emission Reduction in 2023 (01/01/2023-09/04/2023) (tCO2)</td> <td>30.938</td> <td>-51%</td> <td>-51%</td> </tr> <tr> <td>Total Estimated EG in Monitoring Period (MWh)</td> <td>466.281.84</td> <td>Total Estimated ER in Monitoring Period (tCO2)</td> <td>259.068</td> <td>-41%</td> <td>-41%</td> </tr> <tr> <td>Expected Annual Generation (MWh)</td> <td>205.299</td> <td>Expected Annual Emission Reduction (tCO2)</td> <td>114.065</td> <td>-41%</td> <td>-41%</td> </tr> </tbody> </table>						Ex-ante Estimations in PD			% Difference between Ex ante and Calculated Values EG	% Difference between Ex ante and Calculated Values ER	Expected Generation (MWh) in 2021 (01/01/2021-31/12/2021)	205.299	Expected Emission Reduction in 2021 (01/01/2021-31/12/2021) (tCO2)	114.065	-60%	-60%	Expected Generation (MWh) in 2022 (01/01/2022-31/12/2022)	205.299	Expected Emission Reduction in 2022 (01/01/2022-31/12/2022) (tCO2)	114.065	-19%	-19%	Expected Generation (MWh) in 2023 (01/01/2023-09/04/2023)	55.684	Expected Emission Reduction in 2023 (01/01/2023-09/04/2023) (tCO2)	30.938	-51%	-51%	Total Estimated EG in Monitoring Period (MWh)	466.281.84	Total Estimated ER in Monitoring Period (tCO2)	259.068	-41%	-41%	Expected Annual Generation (MWh)	205.299	Expected Annual Emission Reduction (tCO2)	114.065	-41%	-41%
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Documentation provided by project participant																																								
VVB assessment					Date:	25/09/2024																																		
Provided correctly. Finding closed.																																								

CR ID	9	Section no.	-	Date:	30/04/2024	
Description of CR						
Tabulate a summary of training events in the MP in MR						
Project participant response					Date:	23/08/2024
Under Section 4.3, the provided trainings are stated. Please note that the given certificates are valid for a certain time period.						
Documentation provided by project participant						
VVB assessment					Date:	25/09/2024
Table provided in MR. Finding Closed.						

CR ID	10	Section no.	-	Date:	30/04/2024	
Description of CR						
Please clarify if the VCS review after first verification contains any FARs for this verification, please provide closed VER review.						
Project participant response					Date:	23/08/2024
There hasn't been any Forward Action Request (FAR) issued during previous verification process. The 1 st Verification Report can be downloaded from the link below. The report contains the VER review.						
https://registry.verra.org/mymodule/ProjectDoc/Project_ViewFile.asp?FileID=56402&IDKEY=jkjalskjf098234kj28098sfkjl098098kl32lasjdfklj909a77778358						
Documentation provided by project participant						
VVB assessment					Date:	25/09/2024
Please provide the VERRA review, too. Not closed.						
Project participant response					Date:	25/09/2024
It is checked whether there is a VERRA review or not, but there is no VERRA review.						
VVB assessment					Date:	24/10/2024
Clarified. Finding Closed						

Table 3. CAR from this validation

CAR ID	1	Section no.	-	Date: 30/04/2024
Description of CAR				
Please revise to VCS MR template 4.4				
Project participant response				Date: 23/08/2024
Revised. The report is prepared with the last version of the MR 4.4.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
<u>Revised. Finding closed.</u>				

CAR ID	2	Section no.	-	Date: 30/04/2024
Description of CAR				
In MR cover page please rename project the same as it appears in registry				
Project participant response				Date: 23/08/2024
The name is revised as "Eglenice I-II Hydroelectric Power Plant" in the cover page.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
<u>Revised. Finding closed.</u>				

CAR ID	3	Section no.	1.1	Date: 30/04/2024
Description of CAR				
Yaprak-I Hydropower Plant referred to in MR				
Project participant response				Date: 23/08/2024
Revised.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
<u>Revised. Finding closed.</u>				

CAR ID	4	Section no.	4.2	Date: 30/04/2024
Description of CAR				
Check section 4.2 for mistakes in meters table headings				
Project participant response				Date: 23/08/2024
Revised.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
<u>Revised. Finding closed.</u>				

CAR ID	5	Section no.	-	Date: 30/04/2024
Description of CAR				
ERs are rounded down but generation data is expressed as "276,293" and also "276,292.90" please use it as it is in excel, Check all the generation data in MR and excel				
Project participant response				Date: 23/08/2024
For the generation two decimal value precision is used. The expressions are revised.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024

Revised. Finding closed.

CAR ID	6	Section no.	1.1	Date: 30/04/2024
Description of CAR				
In MR “which indicates 41% less energy generation” is stated and also “project reduced -69% less CO2 than the estimated amount” is stated.				
Project participant response				Date: 23/08/2024
Both achieved generation and reduction values are 41% lower than the ex ante values. The statements are revised.				
Documentation provided by project participant				
VVB assessment				Date: 25/09/2024
Revised. Finding closed.				

Table 4. FAR from this validation

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

APPENDIX 4: COMPETANCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS



CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

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

Fikriye Seda ATABEK

è qualificato come¹:
is qualified as:

TL – VAL – VER – TEC

nello schema²:
for the scheme:

GS4GG – VCS – CCB

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

1.2 – 2.1 – 3.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
2.1	Energy distribution	2
3.1	Energy demand	3

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	04.06.2023	First Issue

Scheme Manager
Scheme Manager



¹ Legend:

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

² Legend:

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

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

GHG_QUAL_CERT_EN(06-2021)

Page 1 of 1



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
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CDM: Clean Development Mechanism
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³ Turkey

⁴ For GS4GG only

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GHG_QUAL_CERT_EN(06-2021)

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