



Verification and certification report form for GS project activities

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	Cemel Hydro Bundle
GS Reference number of the project activity	1208
Version number of the verification and certification report	2.0Aa
Completion date of the verification and certification report	12/04/2025
Monitoring period number and duration of this monitoring period	5 th Monitoring Period (1 st MP of the 2 nd CP) 01/07/2022 – 30/06/2024 (both days included)
Version number of monitoring report to which this report applies	Version 05 of 08/04/2025
Crediting period of the project activity corresponding to this monitoring period	01/07/2022 – 30/06/2029
Project participant(s)	HGG Enerji Üretim Anonim Şirketi (Private Entity, Project Owner ¹)
Host Party	Türkiye
Sectoral scope(s), selected methodology(ies)	Sectoral scope 1: Energy Industries (Renewable-/non-renewable sources) ACM0002, Grid-connected electricity generation from renewable sources --- Version 20.0
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	73,002 tCO ₂ e
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	54,101 tCO ₂ e
Name of VVB	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the verification and certification report	 Laura Severino (Authorized officer signing for the VVB) Decarb & Chain of Custody Product Management

¹As per the registered PDD (v04 dated 13/03/2023), the project is licensed in 14/12/2006 and in 09/02/2011 all the legal rights of the project are given to Zeynep Enerji Üretim Sanayi A.Ş. which later referred as HGG Enerji Üretim Anonim Şirketi (https://www.hgg.com.tr/tr/zeynep_kvkk). The revised generation license dated 09/02/2011 was provided by the PO.

SECTION A. Executive summary

Purpose and general description of the project

The project activity “Cemel Hydro Bundle” consists of 3 hydro power plants which are Cemel I HEPP, Cemel II HEPP and Cemel III HEPP. Each HEPP consists of 2 horizontal Kaplan turbines. The installed capacity of the plants is 6.567 MWe, 7.055 MWe and 6.4 MWe, respectively, as confirmed through the Provisional Acceptance Protocols of the hydro turbines.

On 28/09/2023, according to the board decision of EMRA (Energy Markets Regulatory Authority) /35/, solar panels can be commissioned as auxiliary power unit by the Project Owner for “Cemel Hydro Bundle”. After this decision, the revised generation license of the project activity has been taken for a total of 17.8310 MWm auxiliary solar power units (i.e. 3 solar power plants which are GES 1, GES2 and GES3). However, these power plants are expected to be commissioned in year 2025. Since the current monitoring period is from 01/07/2022 to 30/06/2024, these solar units did not play any role in electricity generation during the monitoring period. GS Design Change process for solar units are currently ongoing.

The generated electricity is fed to the national grid. The estimated annual net electricity production is 73,950 MWh and the annual emission reductions are estimated to be 36,451 tCO₂e as confirmed through the registered PDD. With considering these estimations, for the current monitoring period, 148,102.60 MWh electricity generation and 73,002 tCO₂e emission reductions are estimated. During this period, the achieved electricity generation value is 109,762.90 MWh and the achieved emission reduction value is 54,101 tCO₂e.

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

The project activity aims to reduce the greenhouse gas emissions in Türkiye by replacing fossil fuel power generation and contribute to the development of the hydro energy sector in Türkiye, as well as aims to support the local economy by creating local employment and providing equipment locally.

Double counting issue has been assessed and the 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. Also, the signed and sealed letter dated 09/07/2024 has been provided by the Project Participant stating that “No double counting regarding the project activity was available during the monitoring period of 01/07/2022 – 30/06/2024.”.

Location

The project is located in Avanos District, Nevsehir Province, Türkiye. The nearest residential area is Aladdin Village.

Scope of verification

Verification is the periodic independent review and ex-post determination by a VVB of the monitored reductions in GHG emissions that have occurred as a result of the registered GS project activity during a defined monitoring period. Certification is the written assurance by a VVB that, during a specific period in time, a project activity achieved the emission reductions as verified. The objective of this verification is to verify and certify emission reductions reported for the Cemel Hydro Bundle for the period 01/07/2022 – 30/06/2024.

The scope of the verification is to verify that:

- The project activity has been implemented and operated in accordance with the registered PDD or any approved revised PDD;

- The monitoring plan, including compliance with any guidance provided by the Board regarding deviations from the provisions of a registered plan and/or methodology;
- The data and calculation of GHG emission reductions have been assessed to correctly support the emission reductions being claimed.

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

Verification process

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

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

Conclusion

RINA commissioned by HGG Enerji Üretim Anonim Şirketi has performed the verification of the emission reductions reported for the project activity Cemel Hydro Bundle, GS Registration Reference No. 1208 for the monitoring period 01/07/2022 – 30/06/2024, with regard to the relevant GS requirements and principles for project activities. The project was validated by Carbon Check (validation report ID CCIPL1017/GS/VER-RCP/CHB/20211008, version 4.0 of 13/03/2023).

The GHG emission reductions are calculated on the basis of the approved methodology ACM0002., “Grid-connected electricity generation from renewable sources” - Version 20.0 and the monitoring plan included in the registered PDD version 04 dated 13/03/2023. In our opinion the GHG emission reductions reported for the project in the monitoring report version 05 of 08/04/2025 are fairly stated.

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

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

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

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

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in the quantification of emissions (which may be more likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording).	Low	Since this is the 5 th monitoring period of the project activity, the project proponent is familiar with monitoring procedures from and previous another verification and certification project activities developed by the PP and data reporting in line with the registered PDD. The prime monitoring parameter is net export to grid which is as per monthly generation report as recorded in calibrated energy meters. Hence, the risk level is low.	During the site visit, the verification team will interview the staffs of the project activity and check all records to confirm whether the monitoring plan has been well implemented. The major parameters used for determining the project's baseline emissions are the measurement of net electricity generation according to the monitoring plan is recorded monthly. The team will review the whole data set of the monthly report and crosschecked against meter reading forms. The verification team will check the relevant records to confirm whether the data collection procedure and QA/QC procedure have been well implemented.
2	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Low	Since this is the 5 th monitoring period of the project activity, the project proponent has already established a well-organized monitoring team, monitoring plan, including data collection procedure and QA/QC procedure consistent with registered monitoring plan. Monitoring equipments are calibrated at defined frequency. Hence, the risk level is low.	
3	Manual adjustment of otherwise automatically recorded activity levels.	Low	As detailed in section C.2 below, the data of the main monitoring parameters are taken from calibrated meters (energy meter) and can be verified from totalizer values. The monitoring equipment's are calibrated according to national standards and rules. Hence, the risk level is low.	
4	An omission, misstatement, or erroneous reporting of information is material if it might lead at an aggregated level to an overestimation of the total GHG emission reductions or net anthropogenic GHG removals achieve by a registered GS project activity equal to or higher than the following thresholds: a. 0.5 per cent of the emission reductions/removals for project achieving a total emission reduction equal to or more than 500,000 tonnes	Low	The project activity is a large-scale project activity achieving a total emission reduction of 300,000 tons of carbon dioxide equivalent per year or less (option c). The materiality threshold is 2%. There have not been any observed omission, misstatement, or material errors among the reviewed documents as checked and confirmed by the verification team and applied materiality threshold is 2% in line with values of the emission reductions during the current monitoring period. To guarantee this level of assurance all data that is used in the GHG emission reduction	

	of carbon dioxide equivalent per year b. 1 per cent of the emission reductions/removals for projects achieving a total emission reduction between 300,000 and 500,000 tonnes of carbon dioxide equivalent per year c. 2 per cent of the emission reductions/removals for large-scale project activities achieving a total emission reduction of 300,000 tonnes of carbon dioxide equivalent per year or less d. 10 per cent of the emission reductions/removals for microscale projects		calculations have been reviewed without any sampling.	
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C.2. Consideration of materiality in conducting the verification

The project activity consists of 3 hydro power plants and export electricity to grid from the plants is monitored and recorded using calibrated energy meters and 100% data is available for verification. The data which directly affect emission reduction calculations being net electricity generation is monitored and measured by calibrated electricity meters, 100% verifiable. Hence, in line with paragraph 329 and section 9.1.2.3.1 of the CDM Validation and Verification standard no significant reporting risks to the materiality of the verification were envisaged while planning for the verification and were not identified during the verification process. During the course of the verification, the team reviewed the whole data set of monthly meter records for net electricity (EPIAS records) and cross-checked with monthly meter records (OSF forms). The data reported in the monitoring report are consistent with the EPIAS records, and the emission reductions are correctly calculated. In conclusion, the verification team confirms the data set to be free from material error.

SECTION D. Means of verification

D.1. Desk review

The monitoring report version 05 of 08/04/2025 and previous versions, the emission reduction calculations provided in the form of a spreadsheet “ER_Calculation Sheet_Cemel Hydro Bundle_v4_05.02.2025” version 05, submitted on 08/04/2025, the approved baseline and monitoring methodology ACM0002 version 20.0 of 28/11/2019 and all the documentation provided to support the monitoring period, was assessed as part of the verification. In addition, the Project Design Document (PDD) version 04 of 13/03/2023, in particular as regards the baseline estimations and the monitoring plan, and the validation report version 4.0 of 13/03/2023 for the project, were reviewed. The list of all documents reviewed are referenced during the verification is available in Appendix 3 below.

D.2. On-site inspection

Duration of On-Site Audit: 28/06/2024				
No.	Activity performed on-site	Site location	Date	Team member
1.	Implementation and operation of the proposed project activity. Checked the monitoring equipment, interviewed key personnel of the plant to confirm the operational and data collection procedures, cross-checked between information provided in the monitoring report and data plant	Avanos District, Nevsehir Province	28/06/2024	Öykü Yakupoğlu
2	Reviewed the information flows for generating, aggregating and reporting the monitoring parameters			
3	Checked calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions			
4	Checked the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters			
5	Cross-checked between information provided in the monitoring report and data evidence, including the Gold Standard for Global Goal parameters			

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Şahin	İsa	HGG Enerji – Energy Markets Expert	28/06/2024	Implementation status of the project	Öykü YAKUPOĞLU
2.	Alpay	Cengiz	HGG Enerji – Business Manager		Monitoring equipments and operation Generated Electricity Monitoring of Gold Standard Parameters Wastewater disposal Trainings	
3.	Zeybek	Ekrem	Aladdin Village – Local Stakeholder	28/06/2024	Benefit of the project to the village	Öykü YAKUPOĞLU
4.	Ünal	Mihrin	Aladdin Village – Local Stakeholder		Complaints Requests	

The on-site audit was conducted on 28/06/2024. 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 for the monitoring period.

The VVB considered whether a commentary book is available in the most appropriate and publicly accessible location (Aladdin Village) so that stakeholders can provide feedback on the project. The mukhtar was interviewed and confirmed that the logbook used for the continuous input / complaint mechanism is available at mukhtar's office.

In addition to this during interview, it is asked to the stakeholders and project employees if any legal contests or disputes have arisen during the monitoring period and they confirmed that there is no legal contest or disputes have arisen. Also, the signed and sealed letter dated 09/07/2024 has been provided by the Project Participant stating that "No ownership or legal disputes regarding the project activity have arisen during the monitoring period of 01/07/2022 – 30/06/2024."

D.4. Sampling approach

Not applicable.

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

Areas of verification findings	No. of CR	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	-	-
Compliance of the project implementation with the registered PDD	1	4	-
Post-registration changes	-	1	-
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline	-	2	-
Compliance of monitoring activities with the registered monitoring plan	-	3	-
Compliance with the calibration frequency requirements for measuring instruments	-	-	-
Assessment of data and calculation of emission reductions or net removals	-	1	-
Assessment of comments of local stakeholders	1	-	-
Total	2	11	-

SECTION E. Verification findings

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

Means of verification	The monitoring report version 05 and previous versions submitted by the PP have been the basis for starting the verification process. RINA confirms that the Monitoring report is based on the currently valid MR template, version 1.1.
Findings	No findings have been raised.
Conclusion	RINA verified that the monitoring report was completed in accordance with the GS4GG - Monitoring report form, including its Attachment: Instructions for filling out the monitoring report form, version 1.1.

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

There are 4 FARs from previous processes of the project activity:

From the Crediting Period Renewal:

FAR #1: In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule after Design Renewal Certification is achieved: 5.1.29: 1st verification shall be completed within two years after the certification is achieved.

Response to FAR #1: With considering date of the Design Renewal Certification, 1st verification should have been completed before 31 August 2024. Reviewing at the site visit date and the most recent monitoring report date (v05, dated 08/04/2025), it may be concluded that this process was completed after 31 August 2024. However, the reason why the documents are kept on hold by the VVB is that the design change process had carried out in parallel and the verification would have been submitted to GS after the design change process is completed. However, due to the GS Review period taking longer than expected (related to expropriation issues) and the commissioning of solar units not having been done yet on this monitoring period (although it was considered otherwise at the beginning), it was decided to send the relevant documents to GS (estimated February 2025).

Additionally, in the statement in article 5.1.29 of “GS4GG Principles and Requirements”, there is no information about Design Certification Renewal. Design Certification is specified in the statement, not Design Certification Renewal. This indicates the first registration stage. The “Design Certification Renewal” expression is used when the re-validation process is requested to be expressed in other sections of the document, GS4GG Principles and Requirements.

Therefore, this FAR has been closed.

FAR #2: Verifying VVB shall conducted onsite in the next verification since RCP is conducted remotely.

Response to FAR #2: The physical site visit was conducted on 28/06/2024. **Therefore, this FAR has been closed.**

FAR #3: Verifying VVB shall assess there is no double counting of ERs during the next verification especially for IREC.

Response to FAR #3: During the current monitoring period, no I-REC or any other voluntary certificates were received. For more detailed information, please refer to Section A of this Verification Report. **Therefore, this FAR has been closed.**

FAR #4: Verifying VVB shall include assessment of monitoring of fish passage and include photos of the fish passage in the verification report.

Response to FAR #4: During the on-site visit, fish passage was evaluated and relevant photos were taken by the VVB. The fish passage photos are given below:

Cemel I HEPP	Cemel II HEPP	Cemel III HEPP
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The project is an impoundment-type hydropower plant, meaning, it does not involve diverting the river's natural flow or creating storage capacity. As a result, it does not alter the river's natural flow pattern.

At the request of Gold Standard, independent experts evaluated the functionality of the project's fish passage design during construction. Based on their recommendations, the design was revised and implemented by the project owner.

The fish passage was developed with the river's natural characteristics in mind, ensuring the project has no notable impact on biodiversity. Its design adheres to internationally recognized guidelines and was approved by qualified experts. The local fish species require a water depth of 20–25 cm for unhindered movement, breeding, and feeding. To protect aquatic life, the water intake structure includes screens compliant with international standards, preventing fish and large debris from entering the turbines.

Therefore, this FAR has been closed.

Compliance of the project implementation with the registered project design document

Means of verification	The Monitoring Report for the project activity “Cemel Hydro Bundle”, version 05 of 08/04/2025 submitted by the HGG Enerji Üretim A.Ş. has been the basis for the verification process. It was verified during the on-site visit that the proposed project activity has been implemented and it is in operation in accordance with the project activity described in the registered PDD. The starting date of operation is 27/06/2013, as per provisional acceptance protocol of the turbines in Cemel I HEPP). The start date of the 2nd crediting period is 01/07/2022. It covers 7 years and thus, the end date is 30/06/2029. The project activity consists of 3 hydro power plants which are Cemel I HEPP, Cemel II HEPP and Cemel III HEPP. Each HEPP consists of 2 horizontal Kaplan turbines. The installed capacity of the plants is 6.567 MWe, 7.055 MWe and 6.4 MWe, respectively, as confirmed through the Provisional Acceptance Protocols of the hydro turbines. The project boundary in the registered PDD is in line with the actual project boundary. The generated electricity is supplied to the National Electricity Transmission Grid of Türkiye via Avanos TM electricity transmission line as confirmed through the Generation License.
Findings	1 CR and 4 CARs have been raised and successfully closed.
Conclusion	RINA confirms that the above MR is based on the currently valid MR template and is completed in accordance with the applicable guidance document. Based on the on-site audit and checking the above documents, RINA confirms that the project activity has been implemented and it is in operation as described above in accordance with the project activity in the registered PDD.

E.3. Post-registration changes

E.3.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

Not available.

E.3.2. Corrections

Not available.

E.3.3. Changes to the start date of the crediting period

Not available.

E.3.4. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

On 28/09/2023, according to the board decision of EMRA, solar panels are going to be commissioned as auxiliary power unit. For “Cemel Hydro Bundle”, the license has been taken for a total of 17.8310 MWm auxiliary solar power unit (i.e. 3 solar power plants).

E.3.5. Changes to the project design of a registered project activity

On 28/09/2023, according to the board decision of EMRA, solar panels are going to be commissioned as auxiliary power unit. For “Cemel Hydro Bundle”, the license has been taken for a total of 17.8310 MWm auxiliary solar power unit (i.e. 3 solar power plants). The design change of the project is approved with the deviation request on 06 December 2023. The design change process is still going on.

E.4. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The project applies the approved methodologies ACM0002 “Grid-connected electricity generation from renewable sources” version 20.0 of 28/11/2019. The following tools are also applicable to the project activity: “Tool to calculate the emission factor for an electricity system”, version 07.0; “Tool for the demonstration and assessment of additionality”, version 06.0.0 and “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.
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Findings	2 CARs have been raised and successfully closed.
Conclusion	The monitoring plan in the registered PDD is in accordance with the monitoring methodology ACM0002 "Grid-connected electricity generation from renewable sources" version 20.0 of 28/11/2019.

E.5. Compliance of monitoring activities with the registered monitoring plan

E.5.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The parameters were available at the validation stage, which do not need to monitor during the crediting period, as per the registered PDD:			
	DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
	EF _{grid,CM,y} Combined margin CO ₂ emission factor for the project electricity system in year y	https://enerji.gov.tr/evced-cevre-ve-iklim-turkiye-ulusal-elektrik-sebekesi-emisyon-faktoru	0.4929 tCO ₂ /MWh	Official publications have been chosen to determine the data. Therefore, it is not requested to monitor EF _{grid,CM,y} during the crediting period.
Findings	No findings have been raised.			
Conclusion	Data and parameters fixed ex-ante are in accordance with the registered PDD.			

E.5.2. Data and parameters monitored

Means of verification	The monitoring plan is in accordance with the registered monitoring plan indicated in the registered PDD (v04 dated 13/03/2023) applied methodology "ACM0002: Grid-connected electricity generation from renewable sources", version 20.0. According to the methodology and the registered monitoring plan, the parameters to be monitored are • Air Quality: Reduction of SO₂ and NO_x emissions due to implementation of project activity that would otherwise be emitted by thermal power plants • Emissions Reductions in tCO₂: Reduction of CO₂ emissions due to implementation of project activity • EG_{PJ,grid,y}: Quantity of electricity generated and supplied by the project power plant to the grid in year y • Quantitative employment and income generation: Creating job opportunities • Quality of Employment: HSE trainings • Cap_{PJ}: Installed capacity of the hydro power plant after the implementation of the project activity • 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 • Industry, Innovation and Infrastructure: The project promotes quality, reliable, sustainable and resilient infrastructure for energy generation in Turkey, where energy demand is continuously increasing. Therefore, project presents clean and reliable energy source accessible for all. Related to the safeguards, the following parameters are monitored: • Biodiversity: Functionality of fish passage • Hazardous and Non-hazardous Waste: Impact of project activity and non-hazardous domestic waste generation All monitoring parameters have been included in the monitoring plan for the current monitoring period.
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The existing main meters and back-up meters are BAYLAN branded. The serial numbers are "670008156" and "670008155" for the main meter and back-up meter, respectively. The electricity meters were first installed on 24/04/2024. Since, the current monitoring period is from 01/07/2022 to 30/06/2024, old electricity meters were also used during the current monitoring period. The technical details of the electricity meters were confirmed by the verification team via the meter change protocols dated 24/04/2024. As per these protocols:

	Replaced Main Meter	New Main Meter	Replaced Spare Meter	New Spare Meter
Brand	EMH	BAYLAN	EMH	BAYLAN
Type	LZQJ-XC	BTK-40	LZQJ-XC	BTK-40
Class	0.5S	0.5S	0.5S	0.5S
Serial number	4632455	670008156	4632455	670008155
Date of calibration	22/08/2014	24/04/2024	22/08/2014	24/04/2024

Also, during the on-site visit dated 28/06/2024, the current electricity meters were observed.

The test dates of the meters during this monitoring period are 30/03/2022 and 24/04/2024 (Meter tests are carried out every 2 years). According to these test results, the meters work within their accuracy limits. No error was specified in the document. In addition, the meters are calibrated every ten years, and the meters are tested every two years². According to these periods, there was no delay in the calibration or testing period during the current monitoring period.

The grid owner has been responsible for the monitoring and maintenance of the electricity meters. The calculation of net electricity delivered to the grid relies on records provided by TEIAS through the EPIAS system, the financial settlement center of TEIAS. All readings and billings are processed via the EPIAS system, a legal database of the Ministry.

Since TEIAS meters are sealed by TEIAS, the project proponent cannot intervene with the devices.

Internal reviews of the metered data are consistently performed. A SCADA system is in place, generating daily reports. The data collected daily is stored in the plant manager's computer and backed up. SCADA values were reviewed, revealing no discrepancies in the data.

All data collected as part of monitoring will be archived electronically by the project owner and be kept at least for 2 years after the end of the last crediting period.

The applied methodology and tools refer these monitoring parameters. RINA has checked Data Unit, Description, Source of Data, Description of the Measurement Method, Frequency of Monitoring, Value Applied, Monitoring Equipment, QA/QC Procedures, and Calculation Method of these parameters in the applied methodology and tools. All information for the monitoring parameters has been indicated correctly in the GS4GG MR, version 05 dated 08/04/2025:

- For Air Quality monitoring parameter (SDG 13.2.2 Total greenhouse gas emissions per year), National Inventory of Turkey for year 2020 and amount of the clean electricity generated by the project activity are taken into consideration to calculate emission reductions of SO₂ and NO_x. Total SO₂ emission related to electricity generation is about 1,488.80 kt for 2020 according to National Inventory of Turkey³. Considering that electricity generation in 2020 is 306,703.10 GWh in Turkey, SO₂ emission per MWh is calculated as 4.85 kg/MWh. Total NO_x emission related to electricity generation is about 320.68 kt for 2020 according to the same source. NO_x emission per MWh is calculated as 1.05 kg/MWh. During the current

²

<https://www.mevzuat.gov.tr/anasayfa/MevzuatFihristDetayIframe?MevzuatTur=7&MevzuatNo=6381&MevzuatTertip=5#:~:text=Naklimetre%20ve%20hububat%20muayene%20aletlerinin,ve%20Ayar%20Te%C5%9Fkilat%C4%B1%20taraf%C4%B1ndan%20yap%C4%B1l%C4%B1r>

³ <https://unfccc.int/documents/461898>

monitoring period, 109,762.90 MWh electricity was generated. Therefore, the SO₂ reduction and NO_x reduction is calculated to be 0.53 kt ($109,762.90 \text{ MWh} \times 4.85 \text{ kg/MWh}$) = 0.53) and 0.11 kt ($109,762.90 \times 1.05 \text{ kg/MWh}$) = 0.11 kt), respectively.

- For Emissions Reductions in tCO₂ monitoring parameter (SDG 13.2.2 Total greenhouse gas emissions per year), emission factor published by the Ministry of Energy and Natural Resources (kept fix during the re-validation process) and amount of the clean electricity generation by the project activity are taken into consideration to calculate emission reductions in tCO₂. As per the registered PDD (v04 dated 13/03/2023), the emission factor for the 2nd crediting period is 0.4929 tCO₂/MWh. During the current monitoring period, 109,762.90 MWh electricity was generated. Therefore, 54,101 tCO₂e emission reductions have been achieved during this monitoring period.
- For EG_{PJ,grid,y} monitoring parameter (SDG 7.2.1 Renewable energy share in the total final energy consumption), there are two electricity meters at the project site. The electricity meters were checked during the on-site visit dated 28/06/2024. One is the main meter and the other one is the back-up meter. The electricity generation/consumption values read on the meters constitute the EPIAS records. EPIAS records have been used as the main source. All EPIAS records for electricity generation provided to the VVB at the time of the verification. For the cross-check purposes monthly meter records (OSF forms) have been used. The periodical calibration or maintenance is under the responsibility of TEIAS and is fixed as once in 10 years. The meter tests are carried out every two years.
- For Quantitative employment and income generation monitoring parameter (SDG 8.5.1 Average hourly earnings of female and male employees, by occupation, age, and persons with disabilities and Principle 3.6.1: Labor Rights), social security record are used to monitor the number of employees. Social security records were provided by the project proponent. As per the social security records checked and handled interviews, 30 employees have been employed.
- For Quality of Employment monitoring parameter (SDG 8.8.1 Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status and Principle 3.6.1: Labor Rights), training records are used to monitor the contribution of the project to quality of employment. All training records which were carried out during the current monitoring period (related to years 2022 and 2023) were provided to the VVB. The details of these trainings are as follows:

17 May 2022 – 18 May 2022	Occupational Health and Safety Training Basic Technical and Health Training
09 – 10 August 2023	Occupational Health and Safety Training
11 August 2023	Fire Drill
28 November 2023	First Aid Training

- For Cap_{PJ} monitoring parameter (SDG 7.2.1 Renewable energy share in the total final energy consumption and SDG 13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions), equipment labels at the project site and generation license of the project activity are taken into consideration. As per these evidences, the total installed capacity of the project activity is 20,400,000 W.
- For A_{PJ} monitoring parameter (SDG 7.2.1 Renewable energy share in the total final energy consumption and SDG 13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions), maps and satellite data are used. As per these evidences, the reservoir area is 0 since no reservoir is used at the project site.

	- For Industry, Innovation and Infrastructure monitoring parameter (SDG 9.1. Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all), the continuation of the hydropower plant project will be monitored. The hydropower plant project is an innovative built infrastructure which is reliable, sustainable and resilient which provides sustainable electricity generation, therefore, supports economic development. The project provides infrastructural benefits for all. - For Biodiversity monitoring parameter (Principle 8.1 Impact on Natural Water Patterns/Flow), functioning of the fish passage is monitored via observations. During the on-site visit, fish passage was evaluated and relevant photos were taken by the VVB. Also, there were no complaints from the stakeholders regarding the fish population in the river. - For Hazardous and Non-hazardous Waste monitoring parameter (Principle 9.5 Hazardous and Non-hazardous Waste), waste water disposal records and hazardous disposal records are monitored. For the current monitoring period, waste water disposal records dated 27/10/2022, 31/12/2023, 20/03/2024 and hazardous waste disposal records related to years 2022 and 2023 were shared to the VVB. The project makes a positive impact on SDG 7 (Affordable and Clean Energy) through the generation of 109,762.90 MWh of net electricity. It also contributes to SDG 8 (Decent Work and Economic Growth) by employing a total of 30 staff members during the most recent year of operation. Furthermore, the project supports SDG 13 (Climate Action) by achieving an emission reduction of 54,101 tCO₂e throughout the monitoring period. Level of materiality is ensured by application of "Guideline on the Application of Materiality in Verifications" version 02 and GS Validation and Verification Standard version 01.0. To guarantee this level of assurance all data that is used in the GHG emission reduction calculations have been reviewed without any sampling. RINA hereby confirms that the level of assurance of this verification report is reasonable, with respect to material errors, omissions and misrepresentations.
Findings	1 CAR has been raised and successfully closed.
Conclusion	RINA's opinion that the monitoring of the project activity has been carried out in accordance with the monitoring plan in the revised PDD.

E.5.3. Implementation of sampling plan

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

E.6. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	TEAIS is responsible for calibration and maintenance of the devices as per the registered PDD. The project owner has no control on the meters since the meters are sealed by the TEIAS. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. During this monitoring period no discrepancy was occurred. The meters were tested on 30/03/2022 and 24/04/2024 as confirmed through the meter test report. 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 date (i.e. first index protocol) of the meters are 22/08/2014 (old ones) and 24/04/2024 (current ones). The calibration of meters is deemed appropriate and in compliance with the national regulation. During the monitoring period, no breakdown has been recorded. No re-calibration is required for this monitoring period.
Findings	N/A
Conclusion	RINA's opinion that the monitoring of the project activity has been carried out in accordance with the monitoring plan in the registered PDD.

E.7. Assessment of data and calculation of emission reductions or net removals

E.7.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The baseline emissions include the CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, multiplying the electricity supplied to the grid (MWh) with the combined margin CO₂ emission factor for grid connected power generation in year. $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ Where: $EG_{PJ,y}$ = Net electricity supplied to the grid (MWh/yr) $EF_{grid,CM,y}$ = Combined margin grid emission factor (tCO₂/MWh) Baseline Emission in 2022: (01/07/2022 – 31/12/2022) $BE_{2022} = 25,127.44 \text{ [MWh]} \times 0.4929 \text{ [tCO}_2\text{/MWh]} = 12,385 \text{ tCO}_2\text{e}$ Baseline Emission in 2023: (01/01/2023 – 31/12/2023) $BE_{2023} = 52,590.42 \text{ [MWh]} \times 0.4929 \text{ [tCO}_2\text{/MWh]} = 25,921 \text{ tCO}_2\text{e}$ Baseline Emission in 2024: (01/01/2024 – 30/06/2024) $BE_{2024} = 32,045.05 \text{ [MWh]} \times 0.4929 \text{ [tCO}_2\text{/MWh]} = 15,795 \text{ tCO}_2\text{e}$ Total Emission Reduction for this monitoring period = 54,101 tCO₂e
Findings	1 CAR has been issued and successfully closed.
Conclusion	RINA verified that the baseline emissions were calculated in accordance with the registered PDD and methodology ACM0002 "Grid-connected electricity generation from renewable sources" version 20.0 of 28/11/2019.

E.7.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	The project emissions are assumed to be zero as per the ACM0002 since there is no reservoir at the project site.
Findings	N/A
Conclusion	RINA verified that the project emissions were calculated in accordance with the registered PDD and methodology ACM0002.

E.7.3. Calculation of leakage GHG emissions

Means of verification	The leakage emissions are assumed to be zero as per the ACM0002 as defined in the registered PDD. Since the project and leakage emissions are zero, the emission reduction equals to baseline emissions.
Findings	N/A
Conclusion	Leakage was considered as zero in accordance with the applied methodology.

E.7.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	According to the applied methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", 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)
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	According to the applied methodology no leakage and project emission have been considered as emission due to project activity is a grid-connected hydro power plant. Hence the emission reductions have been calculated as per above formula: Emission Reduction in 2022: $12,385 - 0 - 0 = 12,385 \text{ tCO}_2\text{e}$ Emission Reduction in 2023: $25,921 - 0 - 0 = 25,921 \text{ tCO}_2\text{e}$ Emission Reduction in 2024: $15,795 - 0 - 0 = 15,795 \text{ tCO}_2\text{e}$ Total Emission Reduction, $ER_y = 54,101 - 0 - 0 = 54,101 \text{ tCO}_2\text{e}$
Findings	1 CAR has been issued and successfully closed.
Conclusion	The emission reduction calculations provided in the Excel spreadsheet have been verified to be correct and in line with the registered PDD and applied methodologies.

E.7.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report version 05 of 08/04/2025 is equivalent to 54,101 tCO₂e. The reported emission reductions are 26% lower than the estimated emission reduction of 73,002 tCO₂e for the period as per the registered PDD. This marginal spread from the estimation is probably due to raining conditions. According to 2022 Precipitation Evaluation Report⁴ issued by Directorate General of Meteorology, in Turkey the precipitation has decreased by 12% compared to normal precipitation figures. The number of rainy days for the Seyhan Basin, where the project reside in, has decreased by 9% according to the mentioned report. Similarly, for the year 2023⁵, the areal precipitation for the Seyhan Basin has decreased by almost 20%. Achieved electricity generation value (109,762.90 MWh) is also 26% lower than the estimated electricity generation value (148,102.60 MWh) indicated in the registered PDD. Since the achieved emission reduction is lower than the estimated one, no risks related to overestimation of emission reductions have been identified by the verification team.
Findings	1 CAR has been issued and successfully closed.
Conclusion	The actual emission reduction is lower than the estimated reduction given in the registered PDD. The reason of the difference between the actual and estimation emission reduction is explained related to weather conditions. All electricity generation values were taken from the official website of EPIAS and relevant screenshots were provided to the VVB.

E.7.6. Remarks on difference from estimated value in registered PDD

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report version 05 of 08/04/2025 is equivalent to 54,101 tCO₂e. The reported emission reductions are 26% lower than the estimated emission reduction of 73,002 tCO₂e for the period as per the registered PDD. This marginal spread from the estimation is probably due to weather conditions.
Findings	1 CAR has been issued and successfully closed.
Conclusion	The actual emission reduction is lower than the estimated reduction given in the registered PDD. The reason of the difference between the actual and estimation emission reduction is explained related to weather conditions. All electricity generation values were taken from the official website of EPIAS and relevant screenshots were provided to the VVB.

⁴ <https://www.mgm.gov.tr/FILES/arastirma/yagis-degerlendirme/2022AlansaYagisDegerlendirmesi.pdf>

⁵ <https://www.mgm.gov.tr/FILES/arastirma/yagis-degerlendirme/2023AlansaYagisDegerlendirmesi.pdf>

E.7.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	RINA verified that the actual monitoring period does not fall into the first commitment period. The period from 01/07/2022 to 30/06/2024, the actual emission reduction is equivalent to 54,101 tCO ₂ e.
Findings	N/A
Conclusion	RINA verified that the actual monitoring period does not fall into the first commitment period.

E.7.8. Assessment of the sustainability parameters

Means of verification	The assessment of the monitored parameters is described in the tables below:		
	Data variable	Source of Data	Reported value for the project period
	Water Quality and Quantity (Principle 4.3.4 Release of pollutants)	Waste water transfer and disposal records	Waste water disposal records related to years 2022, 2023 and 2024 were provided to the VVB.
	Data variable	Source of Data	Reported value for the project period
	Hazardous and Non-hazardous Waste (Principle 4.3.5 Hazardous and Non-hazardous Waste)	Waste storage area photographs and domestic/hazardous waste transfer and disposal records	Waste storage areas were visited during the on-site visit dated 28/06/2024. Also, hazardous waste disposal records related to years 2022 and 2023 were provided to the VVB.
Findings	N/A		
Conclusion	RINA verified that the GS indicators described in the monitoring report are accurate and real. Data to cross check the monitored parameters are available at the office of the company. Also, the registers of the sustainability indicators were available during the onsite inspection.		

SECTION F. Internal quality control

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

SECTION G. Verification opinion

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity "Cemel Hydro Bundle", GS Registration Reference No. 1208 for the period 01/07/2022 – 30/06/2024, with regard to the relevant GS requirements and principles. The project participants are responsible for the preparation for the collection of data in accordance with the monitoring plan and the reporting emission reductions from the project. It is RINA's responsibility to express an independent verification opinion on the reported emission reductions from the project and does not express any opinion on the selected baseline scenario or on the validated and registered PDD. Based on documented evidences and corroborated by an on-site assessment RINA can confirm that: (i) the project has been implemented and operated as per the registered PDD; (ii) the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable GS requirements and principles; (iii) the monitoring is in place as per the applied baseline and monitoring methodology; (iv) the monitoring complies with the registered monitoring plan; (v) the monitoring plan in the registered PDD is as per the applied baseline and monitoring methodology.

SECTION H. Certification statement

It is RINA's opinion that the GHG emission reductions stated in the monitoring report version 05 of 08/04/2025 for the project activity "Cemel Hydro Bundle" for the period 01/07/2022 – 30/06/2024 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology ACM0002, Grid connected electricity generation from renewable sources - Version 20.0. Hence RINA is able to certify that the emission reductions from the project during the monitoring period 01/07/2022 – 30/06/2024 amount to 54,101 tCO₂e:

Period	Amount achieved during this monitoring period (tCO₂e)
2022 Vintage (01.07.2022-31.12.2022)	12,385
2023 Vintage (01.01.2023-31.12.2023)	25,921
2024 Vintage (01.01.2024-30.06.2024)	15,795
Total (01.07.2022 – 30.06.2024)	54,101

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
CR	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	Designated Operational Entity
EB	Executive Board
EPIAS	Energy Market Management Inc.
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GS	Gold Standard
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoV	Means of Verification
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
RINA	RINA Services Spa
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
TEIAS	Turkish Electricity Transmission Company (Türkiye Elektrik İletim A.Ş.)
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



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
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 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

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VER: Verifier
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³ Turkey

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CCB: The Climate, Community & Biodiversity Alliance

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RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS4GG Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports.

GHG_QUAL_CERT_EN(06-2021)

Page 1 of 2

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	HGG Enerji Üretim A.Ş.	Registered PDD	Version 04 of 13/03/2023	Publicly available
2	Carbon Check	Validation Report	Version 4.0 of 13/03/2023	Publicly available
3	HGG Enerji Üretim A.Ş.	Monitoring Report of “Cemel Hydro Bundle”	Version 05 of 08/04/2025 Version 04 of 05/02/2025 Version 03 of 16/07/2024 Version 02 of 12/07/2024 Version 01 of 30/05/2024	Project Participant
4	HGG Enerji Üretim A.Ş.	ER Calculation Excel Sheets	Version 05 of 08/04/2025 Version 04 of 05/02/2025 Version 03 of 16/07/2024 Version 02 of 12/07/2024 Version 01 of 30/05/2024	Project Participant
5	Gold Standard Foundation	GS4GG Standard Requirements	Version 1.2 of 23/10/2019	Publicly available
6	CDM Executive Board	CDM Validation and Verification Standard for Project Activities	Version 03 of 09/09/2021	Publicly available
7	Gold Standard Foundation	Monitoring Report Format	Version 1.1 of 14/10/2020	Publicly available
8	CDM Executive Board	ACM0002: Grid-connected electricity generation from renewable sources	Version 20.0 of 28/11/2019	Publicly available
9	CDM Executive Board	Tool to calculate the emission factor for an electricity system	Version 07.0 of 31/08/2018	Publicly available
10	CDM Executive Board	Tool for the demonstration and assessment of additionality	Version 07.0 of 23/11/2012	Publicly available
11	CDM Executive Board	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
12	Aladdin Village	Logbook	Seen on 28/06/2024	Project Participant
13	Energy Market Regulatory Authority	Generation License EÜ/3071-33/1824	Of 09/02/2011	Project Participant
14	Ministry of Energy and Natural Resources	Provisional Acceptance Protocols	Of 27/06/2013, 04/10/2013, 03/07/2015	Project Participant
15	The Ministry of Trade and Industry	Regulation of Metering and Testing of Metering Systems	Date of 24/07/1994	Project Participant
16	Turkish Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	Date of 22/03/2003	Project Participant

17	TEIAS	First Index Protocols of Old Electricity Meters	Of 22/08/2014	Project Participant
18	TEIAS	Meter Change Protocols	Of 24/04/2024	Project Participant
19	TEIAS	Meter Tests	Of 30/03/2022, 24/04/2024	Project Participant
20	Verra	https://registry.verra.org/app/search/VCS/All%20Projects, Argument: VERRA Database	Retrieved on 10/09/2024	Publicly Available
21	GCC	https://projects.globalcarboncouncil.com/pages/submitted_projects	Retrieved on 10/09/2024	Publicly Available
22	EPIAS	EPIAS Records	Between 01/07/2022 – 30/06/2024	Project Participant
23	HGG Enerji Üretim A.Ş.	Monthly Meter Reading Protocols	Between 01/07/2022 – 30/06/2024	Project Participant
24	T.C. Social Security Institution	Social Security Records of Employees	-	Project Participant
25	Ministry of Environment and Urbanization	Hazardous Waste Disposal Records	2022 2023	Project Participant
26	Avanos Municipality	Waste Water Disposal Records	27/10/2022 31/12/2023 20/03/2024	Project Participant
27	HGG Enerji Üretim A.Ş.	Signed and Sealed Letter related to Double Counting and Legal Contest	Of 09/07/2024	Project Participant
28	Diriliş Occupational Health and Safety Training Consultancy	Training Records	Of 17-18/05/2022 09 – 10-11/08/2023	Project Participant
29	Nevşehir Governorship Provincial Health Directorate	Training Records	Of 28/11/2023	Project Participant
30	HGG Enerji Üretim A.Ş.	GS Last Annual Report	Of 26/12/2022 25/12/2023 30/12/2024	Project Participant
31	Between Meram Electricity Distribution Inc. and HGG Enerji Üretim A.Ş.	Revised Connection Agreement	Of 29/08/2022	Project Participant
32	Between Meram Electricity Distribution Inc. and HGG Enerji Üretim A.Ş.	Revised System Usage Agreement	Of 24/03/2021	Project Participant
33	Ministry of Energy and Natural Resources	EIA Not Required Decision for the Solar Units	Of 28/04/2022	Project Participant
34	EMRA (Energy Markets Regulatory Authority)	EMRA Decision related to the Solar Units' License	Of 28/09/2023	Project Participant
35	Gold Standard Foundation	Gold Standard for Global Goals Validation and Verification Standard	v2.0 of 12/11/2024	Publicly Available

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

FAR ID	1	Section no.	GS Design Renewal Review	Date:
Description of FAR				
In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule after Design Renewal Certification is achieved: 5.1.29: 1st verification shall be completed within two years after the certification is achieved.				
Project participant response				Date:
Considering the Design Renewal Certification, 1st verification should have been completed on 31 August 2024. The site visit is conducted on 28/06/2024 and the most recent date of this monitoring report is v04, 05/02/2025 and it can be concluded that the verification process was completed after 01 October 2024. The reason why the documents are kept on hold by the VVB is that the design change process was carried out in parallel, and the verification would have been submitted to GS with the completion of the design change process. The design change process took longer than expected and it was expected that the solar units would be commissioned. However, the commissioning of the solar units has not been done before 01 October 2024. It was decided to send the relevant documents to GS (estimated February 2025). Additionally, in the statement in article 5.1.29 of “GS4GG Principles and Requirements”, there is no information about Design Certification Renewal. Design Certification is specified in the statement, not Design Certification Renewal. This indicates the first registration stage. The “Design Certification Renewal” expression is used when the re-validation process is requested to be expressed in other sections of the document, GS4GG Principles and Requirements.				
Documentation provided by project participant				
VVB assessment				Date: 02/07/2024
With considering date of the Design Renewal Certification, 1st verification should have been completed before 31 August 2024. Reviewing at the site visit date and the most recent monitoring report date (v04, dated 05/02/2025), it may be concluded that this process was completed after 31 August 2024. However, the reason why the documents are kept on hold by the VVB is that the design change process had carried out in parallel and the verification would have been submitted to GS after the design change process is completed. However, due to the GS Review period taking longer than expected (related to expropriation issues) and the commissioning of solar units not having been done yet on this monitoring period (although it was considered otherwise at the beginning), it was decided to send the relevant documents to GS (estimated February 2025). Additionally, in the statement in article 5.1.29 of “GS4GG Principles and Requirements”, there is no information about Design Certification Renewal. Design Certification is specified in the statement, not Design Certification Renewal. This indicates the first registration stage. The “Design Certification Renewal” expression is used when the re-validation process is requested to be expressed in other sections of the document, GS4GG Principles and Requirements.				
Hence, this FAR has been closed.				

FAR ID	2	Section no.		Date:
Description of FAR				
Verifying VVB shall conducted onsite in the next verification since RCP is conducted remotely.				
Project participant response				Date:
The verification of the monitoring period from 01 August 2021 to 30 June 2022 i.e., (1st crediting period 4th Monitoring Period) conducted onsite.				
Documentation provided by project participant				
VVB assessment				Date: 02/07/2024
The physical site visit was conducted on 28/06/2024. Hence, this FAR has been closed.				

FAR ID	3	Section no.		Date:
Description of FAR				
Verifying VVB shall assess there is no double counting of ERs during the next verification especially for IREC.				
Project participant response				Date:
There is no double counting of ERs during this monitoring period.				
Documentation provided by project participant				
VVB assessment				Date: 02/07/2024
The verification team 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 (https://registry.terra.org/app/search/VCS/All%20Projects), ICR project database (https://www.carbonregistry.com/explore/projects), BCR project database (https://biocarbonregistry.com/en/projects/) and GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects) were checked and this project is not available within VCS, ICR, BCR and GCC 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, ICR, BCR and GCC 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. Hence, this FAR has been closed.				

FAR ID	4	Section no.		Date:
Description of FAR				
Verifying VVB shall include assessment of monitoring of fish passage and include photos of the fish passage in the verification report.				
Project participant response				Date:
Fish passage photos are included in the verification report.				
Documentation provided by project participant				
VVB assessment				Date: 02/07/2024
Fish passage has been assessed during the physical site visit dated 28/06/2024 and fish passage photos have been included in the verification report. Hence, this FAR has been closed.				

Table 2. CR from this verification

CR ID	1	Section no.	A.2	Date: 02/07/2024
Description of CR				
a) If auxiliary units 2 and 3 are not included in the design change application, please remove this information throughout the MR (Additionally, in different parts of the MR, information related to just one solar unit is included.). b) In Figure 1 in Section A.2, 3 villages are mentioned. However, during the site visit, it was determined that the closest settlement is Aladdin village. Please remove villages except Aladdin village from MR and add Aladdin village to Figure 1 in Section A.2.				
Project participant response				Date: 12/07/2024
a) All auxiliary units (17.8310 MWm) are included in the design change. b) Revised.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: a) To avoid confusion, please use term "solar units" instead of "solar unit" throughout the MR. Also, please confirm that commissioning of all three units is expected in December 2024. During the site visit it was stated that only one unit was expected to start operation in December 2024. b) Ok Closed (The revisions were made.)				
Project participant response				Date: 16/07/2024
a) Revised. It is confirmed with the PO that the all three solar units are going to be commissioned in December 2024 (all the units are going to be commissioned at once). So, the statement in the report "The auxiliary solar units are expected to be commissioned in December 2024." is true.				
Documentation provided by project participant				
DOE assessment				Date: 04/02/2025
Review-2: a) Please include information about the decision of EMRA dated 28/09/2023 regarding solar units in the relevant sections in the MR (Sections A.1, B.1, B.2.4). Please also include a map showing HEPP locations in Section A.2.				
Project participant response				Date: 05/02/2025
28/09/2023 EMRA decision regarding solar panels with installed capacity of solar panels and the generation amount according to PVSYST Simulation Report is added under Section A.1., B.1. and B.2.4. The site map and google earth image are added under Section A.2.				
Documentation provided by project participant				
DOE assessment				Date: 06/02/2025
Review-3: a) Ok Closed (Relevant information has been included in Sections A.1 and A.2.)				

CR ID	2	Section no.	G.3	Date: 02/07/2024
Description of CR				
a) Please provide a signed declaration by PO stating that there was no double counting during the current monitoring period. b) Please provide a signed declaration by PO stating that there was no legal contest during the current monitoring period.				
Project participant response				Date: 12/07/2024
a) Please see No Double Counting document shared as supporting document. b) Please see No Legal Contest document shared as supporting document.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: a) Ok Closed (The signed declaration was provided.) b) Ok Closed (The signed declaration was provided.)				

Table 3. CAR from this verification

CAR ID	1	Section no.	Cover Page	Date: 02/07/2024
Description of CAR				
In Gold Standard Impact Registry system, the registered PDD version is indicated as “04”. However, the version is indicated as “07” on the cover page of the MR. Please correct the version.				
Project participant response				Date: 12/07/2024
The PDD with version 07 is the Design Change PDD which is still in review. While preparing this report Design Change PDD is considered because the monitoring period is after the design change.				
Documentation provided by project participant				
DOE assessment				Date: 04/02/2025
Review-1: The monitoring period is before the design change. Therefore, please revise version number of the PDD on the cover page and rely on this PDD only (v04, dated 13/03/2023) when completing the MR. Please correct the section numbers in the first page of the MR. Please remove Footnote 1 on page 3.				
Project participant response				Date: 05/02/2025
- The version and the date of the PDD is revised on the cover page. The MR is revised in accordance with the registered PDD version 04, dated 13/03/2023 i.e., the methodology and the ex-ante emission reduction and the electricity generation. The monitored parameters are checked also. - Section numbers are corrected in the first page of the MR. - The referred footnote is removed.				
Documentation provided by project participant				
DOE assessment				Date: 06/02/2025
Review-2: Ok Closed (The information of PDD was revised throughout the MR.)				

CAR ID	2	Section no.	Cover Page	Date: 02/07/2024
Description of CAR				
Please indicate the total number of “monitoring period number” on the cover page.				
Project participant response				Date: 12/07/2024
Revised.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: Monitoring period number is stated as “1” in “Key Project Information” section. However, this monitoring period is 5 th monitoring period in total. Therefore, please indicate 5 in the relevant row on the cover page.				
Project participant response				Date: 16/07/2024
Revised.				
Documentation provided by project participant				
DOE assessment				Date: 04/02/2025
Review-2: Please revise date of the last annual report on the cover page (There is an annual report dated 30/12/2024 on GS Impact Registry). Please revise version number of the applied methodology throughout the MR.				
Project participant response				Date: 05/02/2025
- The date of the annual report is revised as 30/12/2024 - Revised as version 20.0 throughout the MR.				
Documentation provided by project participant				
DOE assessment				Date: 06/02/2025
Review-3: Ok Closed (Necessary corrections were made.)				

CAR ID	3	Section no.	Cover Page	Date: 02/07/2024
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Description of CAR	
The methodology version given in the MR is different from the methodology version given in the registered PDD. Please clarify this situation.	
Project participant response	Date: 12/07/2024
The Design Change PDD is considered during MR preparation as explained in response to CAR ID 1. In the Design Change PDD the applied methodology is ACM0002 version 21.0.	
Documentation provided by project participant	
DOE assessment	Date: 12/07/2024
Review-1: Ok Closed (The clarification was made.)	

CAR ID	4	Section no.	Cover Page	Date: 02/07/2024
Description of CAR				
During the physical site visit, it has been confirmed that there are 30 employees at the project site. However, in the MR, this number is indicated as 32. Please correct the number of employees throughout the MR.				
Project participant response				Date: 12/07/2024
It is confirmed that the number of employees is 30 on the site. Though the social security records show 32 people 2 of whom are working on the central office outside the site. So related sections are revised.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: Ok Closed (The number of employees was revised throughout the MR.)				

CAR ID	5	Section no.	A.1	Date: 02/07/2024
Description of CAR				
a) In Section A.1, the installed capacity of the auxiliary solar unit is stated as 17.8310 MWm. However, as per the generation license, the capacity of the solar unit is 3.0596 MWm. Please correct the installed capacity of solar unit in Section A.1. Also, since the calculation related to estimated electricity generation includes 17.8 MWm, the calculation also needs to be corrected in Section A.1. b) The estimated electricity generation is indicated as "105,340 MWh/yr" in Section A.1. However, the relevant value is indicated as "73,950 MWh/yr" in the generation license. Please clarify this issue. c) Please correct the statement "For the first crediting period i.e., from 1 July 2022 to 30 June 2029..." in Section A.1. Also, as per the registered PDD, the estimated electricity generation for the current crediting period is 517,650 MWh and the corresponding emission reduction is 255,157 tCO ₂ e. However, these values are indicated differently in Section A.1. Please correct the contradictions. d) Please indicate the electricity values with 2 digits after the comma throughout the MR. e) Please provide "SPP Contract" dated 02/2023, EIA decision and Project Introductory Report of the solar unit and PVsyst Simulation Report of the solar unit.				
Project participant response				Date: 12/07/2024

a) Please see the revised Generation License and the EMRA decision regarding the capacity of the solar unit. These documents are shared as supporting documents.

1.2. Yardımcı kaynağa dayalı üniteye ilişkin bilgiler	
Kaynak türü	: Güneş Enerjisi
EÜ/3071-33/1824	1/20

Ünite sayısı	: 3 adet
Ünite kurulu güçleri	: 1 x (3,0596 MWm) + 1x(13,8996) + 1x (0,8723)
Toplam kurulu gücü	: 17,8310 MWm

T.C.
ENERJİ PİYASASI DÜZENLEME
KURULU

KARAR ÖRNEĞİ

TOPLANTI TARİHİ : 28.09.2023
KARAR SIRA NO : 12094

Elektrik Piyasası Dairesi Başkanlığının 26.09.2023 tarihli ve E-77386926-110.01.01.01-765655 sayılı Başkanlık Makamına müzekkeresi çerçevesinde ve Elektrik Piyasası Lisans Yönetmeliğinin 24 üncü maddesi ile "Elektrik Piyasasında Önlisans veya Lisanslara Konu Üretim Tesislerinin Santral Sahalarının Belirlenmesine İlişkin Usul ve Esaslar"ın 23 üncü ve Geçici 1 inci maddeleri kapsamında HGG Enerji Üretim A.Ş.'ye (Şirket) Nevşehir ili Avanos ilçesinde işletmede olan **Avanos Regülatörü ve Cemal HES** üretim tesisi için verilen 09/02/2011 tarihli ve EÜ/3071-33/1824 numaralı üretim lisansının;

1) Şirket'in birden çok kaynaklı elektrik üretim tesisinin yardımcı kaynak kurulu gücünün artırılması talebine ilişkin olarak;

A) "Üretim Tesisine İlişkin Genel Bilgiler" kısmında;

- a) 7 (altı) adet olan ünite sayısının **9 (dokuz) adet**,
b) 4x (3,8 MWm/3,6 MWe) + 2x (3,2 MWm/3 MWe)+(1 x 3,0596 MWm) olan ünite kurulu gücünün , **4x (3,8 MWm/3,6 MWe) + 2x (3,2 MWm/3 MWe) + (1 x 3,0596 MWm)+(1x13,8996)+(1x0,8723)**
c) 21,6 MWm / 20,04 MWe olan tesis toplam kurulu gücünün **39,4310 MWm / 20,4000**.

B) "Yardımcı Kaynağa Dayalı Üniteye İlişkin Bilgiler" kısmının;

- a) 1 (bir) adet olan yardımcı kaynak ünite sayısının **3 (üç) adet**,
b) (1 x 3,0596) MWm olan yardımcı kaynak ünite kurulu gücünün **(1 x 3,0596 MWm) + (1x13,8996)+(1x0,8723)**
c) 3,0596 MWm toplam kurulu gücün **17,8310 MWm**.

b) As per design change, together with the auxiliary unit, the annual electricity generation reaches to 105,340 MWh/year. In terms of electricity generation, the PVsyst Simulation Report is used to calculate the corresponding electricity generation value for the auxiliary unit with a capacity of 17.83 MWm. According to PVsyst Simulation Report of the auxiliary unit, the generation amount for the 13.90 MW is stated as 24.47 GWh. In this regard the generation amount for the 17.83 MWm will be 31.39 GWh $((17.83 \times 24.47) / 13.90 = 31.39 \text{ GWh})$. This value is added to annual electricity generation value before design change i.e., 79.95 GWh, which makes 105.34 GWh. Also, EPDK does not increase the annual generation in hybrid plants due to auxiliary power component addition.

c) Design Change PDD is considered during MR preparation. For the years 2022 and 2023 the electricity generation is taken as "before design change" i.e., 73,950 MWh/year. And for the year 2024 i.e., after design change, it is taken as 105,340 MWh/year. The corresponding generation value is calculated by proportioning i.e., $(\text{Expected annual generation} \times \text{days included}) / 365 = \text{The corresponding generation value of the monitoring period}$.

d) Revised.

e) Please find EIA Not Required Decision, PVsyst Simulation Report, SPP Contract_02.2023 and Auxiliary Unit Feasibility Report as supporting documents. Also, these documents were shared with the DOE during design change.

Documentation provided by project participant

DOE assessment

Date: 12/07/2024

Review-1:			
a) Please confirm that all three solar units have been included in the design change application.			
b) Ok Closed (The clarification was made.)			
c) Please correct the statement "For the first crediting period i.e., from 1 July 2022 to 30 June 2029..." on page 5 of the MR (It shall be the second crediting period).			
d) Ok Closed (The revisions were made throughout the MR.)			
e) Ok Closed (The documents were provided.)			
Project participant response			Date: 16/07/2024
a) It is confirmed that all three solar units are included in the design change.			
c) Revised as "For the second crediting period..".			
Documentation provided by project participant			
DOE assessment			Date: 04/02/2025
Review-2:			
a) Because December 2024 has passed, please include new expected date for commissioning of the solar units in Table 2 in Section A.1.			
c) Ok Closed (The term was corrected in Section A.1.)			
Project participant response			Date: 05/02/2025
- Revised as "Expected in 2025" in Table 2 and also throughout the MR.			
Documentation provided by project participant			
DOE assessment			Date: 06/02/2025
Review-3:			
a) Ok Closed (The date was revised accordingly in Section A.1.)			

CAR ID	6	Section no.	A.3	Date: 02/07/2024
Description of CAR				
Please include applied tools as well in Section A.3.				
Project participant response				Date: 12/07/2024
Revised.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1:				
Please revise version numbers of the applied methodology and tools in Section A.3.				
Tool 27 is not included in the registered PDD. Therefore, please remove Tool 27 from Section A.3.				
Project participant response				Date: 05/02/2025
- The version numbers of the methodology and the tools are revised in accordance with the registered PDD under Section A.3.				
- Tool 27 is removed.				
Documentation provided by project participant				
DOE assessment				Date: 06/02/2025
Review-2:				
Ok Closed (Section A.3 was revised accordingly.)				

CAR ID	7	Section no.	B.1	Date: 02/07/2024
Description of CAR				
a) In Section B.1, the installed capacity of the auxiliary solar unit is stated as 17.8310 MWm. However, as per the generation license, the capacity of the solar unit is 3.0596 MWm. Please correct the installed capacity of solar unit in Section B.1. Also, since the calculation related to estimated electricity generation includes 17.8 MWm, the calculation also needs to be corrected in Section B.1.				
b) The estimated electricity generation is indicated as "105,340 MWh/yr" in Section B.1. However, the relevant value is indicated as "73,950 MWh/yr" in the generation license. Please clarify this issue.				
Project participant response				Date: 12/07/2024
a) Please refer to the response given for CAR ID 5 – a and b.				
b) Please refer to the response given for CAR ID 5 – a and b.				
Documentation provided by project participant				

DOE assessment	Date: 12/07/2024
Review-1: a) Ok Closed (The clarification was made.) b) Please revise the response for FAR #1 in Section B.1.1. Version and date of the MR will be changed. Also, the deadline shall be 31 August 2024.	
Project participant response	Date: 05/02/2025
- The deadline is revised as 31 August 2024 and the version and date of the last MR is revised in the sentence.	
Documentation provided by project participant	
DOE assessment	Date: 06/02/2025
Review-2: b) Ok Closed (Section B.1.1 was revised accordingly.)	

CAR ID	8	Section no.	B.2	Date: 02/07/2024
Description of CAR				
There is a design change application. Therefore, necessary justifications shall be included in Sections B.2.4 and B.2.5.				
Project participant response				Date: 12/07/2024
According to template guide ⁶ , information regarding design change and approved deviation request is added under Section B.2.4. The approved deviation request is also shared as supporting document.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: Please include details of the design change in Section B.2.5 as well.				
Project participant response				Date: 16/07/2024
The details are given in Section B.2.5 as well.				
Documentation provided by project participant				
DOE assessment				Date: 04/02/2025
Review-2 Please indicate in Section B.2.5 that the design change process is still going on.				
Project participant response				Date: 05/02/2025
The statement regarding the on-going design change process is added under Section B.2.4 and B.2.5.				
Documentation provided by project participant				
DOE assessment				Date: 06/02/2025
Review-3: Ok Closed (Relevant information was included in Sections B.2.4 and B.2.5.)				

CAR ID	9	Section no.	C	Date: 02/07/2024
Description of CAR				
In ER Calculation Excel sheet, the EPIAS records are taken as the main source of electricity generation. However, in Section C, the main source is indicated differently. Please correct the contradiction.				
Project participant response				Date: 12/07/2024
Revised.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: Ok Closed (Section C was revised.)				

⁶ https://globalgoals.goldstandard.org/standards/TGuide-PerfCert_V1.1-Monitoring-Report.pdf

CAR ID	10	Section no.	D.2	Date: 02/07/2024
Description of CAR				
a) The monitoring frequency of “Air Quality” parameter is yearly. Therefore, separate SO ₂ and NO _x values shall be calculated for each year (i.e. 2022, 2023, 2024). b) Please correct the total electricity generation in “Value(s) applied” row of “EG _{PJ,grid,y} ” parameter in Section D.2. c) During the physical site visit, it has been confirmed that there are 30 employees at the project site. However, in the MR, this number is indicated as 32. Please correct the number of employees in Section D.2. d) Please include the date of trainings in “Value(s) Applied” row of “Quality of Employment” parameter in Section D.2. Also, only training records received in 2023 were shared. Please confirm that no training has been conducted between 07/2022 – 12/2022 and 01/2024 – 06/2024. e) Please revise the statement “The installed capacity is 20.4 MWe before and after design change” in “Value(s) Applied” row of “Cap _{PJ} ” parameter. Also, the unit is indicated as “W”. However, the value is indicated in MW unit. f) Only wastewater disposal records belonged to 2024 were shared. Please confirm that there are no disposal records for years 2022 and 2023. g) Please provide hazardous waste disposal record for year 2022.				
Project participant response				Date: 12/07/2024
a) Revised. Vintage wise reductions for SO ₂ and NO _x are added under Section D.2 and E.1 and also ER Sheet. b) Revised. c) Revised. d) The training records for the year 2022 are shared as a supporting document. Section D.2 parameter “Quality of Employment” is revised. The training for the year 2024 will start on August i.e., not within the MP. e) Revised. f) Wastewater disposal records for the years 2022 and 2023 are shared as supporting documents. g) Hazardous waste declaration record for the year 2022 is shared as supporting document.				
Documentation provided by project participant				
DOE assessment				Date: 04/02/2025
Review-1: a) Ok Closed (The vintage values were included in the MR and ER Calculation Excel sheet.) b) In “Source of Data” row of “EG _{PJ,grid,y} monitoring parameter in Section D.2, it is stated that EPIAS records were used as the cross-checked method. However, EPIAS records are the main source as per the ER Excel sheet. Therefore, please correct the cross-checked method in Section D.2. Please also correct the value of Cap _{PJ} in Section D.2 (it shall be 20,400,000 W). c) Ok Closed (The number of the employees was revised throughout the MR.) d) Ok Closed (The training dates were included in Section D.2 and relevant evidence documents were provided.) e) Ok Closed (Section D.2 was revised accordingly.) f) Ok Closed (Waste water disposal records for years 2022 and 2023 were provided.) g) Ok Closed (Hazardous waste disposal records for year 2022 was provided.)				
Project participant response				Date: 05/02/2025
- Revised as EPIAS records for electricity generation calculation and the site records for cross check.				
Documentation provided by project participant				
DOE assessment				Date: 06/02/2025
Review-2: b) Ok Closed (Section D.2 was revised accordingly.)				

CAR ID	11	Section no.	E4 and E.6	Date: 02/07/2024
Description of CAR				
a) Please correct the achieved electricity generation value in Section E.6. b) Please correct the project name in Footnote 31.				
Project participant response				Date: 12/07/2024
a) EPIAS records and OSF forms for the missing months (May and June) are shared as supporting documents. The calculations are revised accordingly. b) Revised.				
Documentation provided by project participant				
DOE assessment				Date: 12/07/2024
Review-1: a) Ok Closed (The missing electricity generation records were provided.) b) Ok Closed (The project name was corrected.)				

Table 4. FAR from this verification

No FAR has been raised during the current monitoring period.

Document information

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