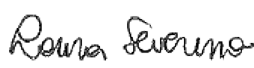




Validation report form for renewal of crediting period for GS project activities

VALIDATION REPORT FOR RENEWAL OF CREDITING PERIOD (RCP)

Title of the project activity	Çanakkale WPP
GS Reference number of the project activity	GS 906
Number and duration of the next crediting period	3 rd crediting period 7 years
Version number of the validation report for RCP	2.0Aa
Completion date of the validation report for RCP	21/04/2025
Version number of PDD to which this report applies	0.3 of 30/01/2025
Project participant(s)	Enerjisa Enerji Üretim A.Ş.
Host Party	Türkiye
Sectoral scope(s), selected methodology(ies)	Sectoral scope 1: Energy Industries (Renewable-/non-renewable sources) ACM0002, Consolidated baseline methodology for grid-connected electricity from renewable sources - Version 22.0
Estimated annual average GHG emission reductions or net anthropogenic GHG removals in the next crediting period	57,542 tCO ₂
Name of VVB	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the validation report for RCP	 Laura Severino (Authorized officer signing for VVB) Decarb & Chain of Custody Product Management

SECTION A. Executive summary

Purpose and general description of the project

The project activity is a wind power plant consisting of 13 turbines with 2.3 MWe capacities making the total installed capacity of 29.9 MWe thus qualifies under large scale projects. The generated electricity is fed to the national grid. The estimated net electricity production is 91,570 MWh/year and the annual emission reductions are estimated to be 57,542 tCO₂ /1/. Estimated annual average electricity generation is calculated by the micro-siting report of the project activity /30/.

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

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

Location

The project is located between Üvecik Village and Mahmudiye Town of Çanakkale Province, in Marmara Region of Turkey.

Scope of Validation

The validation scope is to review the updated PDD against the GS principles and requirements. The validation of the renewal of crediting period is also to be seen in conjunction with the validation report at the time of requesting registration of the project (re-carbon – re-validation report N° 657, version 0.2 issued on 14/06/2021) /25/. Validation of the renewal of crediting period is a requirement, and it is seen as necessary to assure about:

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

Validation process

Validation is conducted using RINA procedures in line with the GS requirements and principles and applying standard auditing techniques. The validation assessment involved a document review of relevant documentation, the interview and/or online audit, and the reporting. Validation is not meant to provide any consultancy of the project participants. However, stated requests, clarifications and/or corrective actions may have provided input for improvement of the project design.

Conclusion

RINA commissioned by Enerjisa Enerji Üretim A.Ş.. has performed the validation of the renewal of crediting period of the project activity “Çanakkale WPP”, about the relevant GS requirements and principles for project activities.

In conclusion, it is RINA's opinion that the project activity “Çanakkale WPP” as described in the PDD version 0.3 of 30/01/2025/1/ and previous versions, meets all relevant GS requirements and principles, and correctly applied the baseline and monitoring methodology ACM0002, Grid-connected electricity generation from renewable sources - version 22.0 of 31/05/2024.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

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

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

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

SECTION C. Means of validation

C.1. Desk review

The latest PDD version 0.3 of 30/01/2025 and/or previous versions [/1/](#), in particular the applicability of the methodology, the baseline determination, the emission reductions calculation, the sustainability indicators, were assessed as part of the validation. All documents reviewed or referenced during the validation are listed in Appendix 3.

C.2. On-site inspection

Duration of Online Audit: 17/01/2025				
No.	Activity performed on-site	Site location	Date	Team member
1.	-Implementation and operation of the proposed project activity. - Baseline and Additionality (Financial Ongoing) - Emission reductions calculations - Interviewed key personnel of the plant to confirm the operational and data collection procedures, QA QC procedures - GS4GG Sustainable Indicators - Local stakeholder consultation - Grievance & Input mechanism	Üvecik Village and Mahmudiye Town, Çanakkale Province in Türkiye	17/01/2025	Mehmet ERDOĞAN Ilayda ONARAN

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1	C.	Sedat	Mahmudiye Village Stakeholder	17/01/2025	Implementation status of the project Monitoring equipment and operation Generated Electricity Monitoring of Gold Standard for Global Goal Parameters	Mehmet ERDOĞAN Ilayda ONARAN
2	D.	Enver	Mahmudiye Village Stakeholder		Local Employment Receiving General Opinion of the local stakeholder about the project Benefit of the project to the village Bird carcasses Grievance Process	
3	D.	Berrin	Üvecik Village Stakeholder			

Online site visit conducted on 17/01/2025 with the PP and by the VVB accordance with GS Site Visit and Remote Audit Requirements and Procedures. Latest physical site visit performed on 01/02/2023 during 6th verification (first verification of second crediting period). The project employees were interviewed about the implementation status of the project, monitoring equipment and operation, generated electricity of the project activity.

During online audit it was confirmed that no negative feedbacks or comments were received related to project activity during grievance mechanism and continuous inputs for the monitoring period. There was also no grievance about the impact such as noise and flickering that reached the VVB during the stakeholders' interviews. In addition to this, the VVB assessed whether a comment box available at the most appropriate and publicly accessible location (Mahmudiye and Üvecik Village, the nearest residential area) so that stakeholders can provide feedback on the project. The continuous input/grievance mechanism has been verified through interview with the headman of village and the logbook [/11/](#). have been checked. There isn't any positive or negative comment written on them.

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

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

Area of validation findings	No. of CR	No. of CAR	No. of FAR
Compliance with PDD form	2		
Compliance with GS Passport form			
Application of baseline and monitoring methodology and standardized baseline	3		
Validity of original baseline or its update			
Do No Harm assessment			
Impact assessment – Sustainable Development Matrix			
Estimated GHG emission reductions or net anthropogenic GHG removals			
Validity of monitoring plan			
Validity of sustainable monitoring plan			
Project participants			
Local stakeholder consultation process			
Others (GS Issuance Review)			
Total	5	-	-

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	The title of the project activity is defined as “Çanakkale WPP” in the PDD version 0.3 of 30/01/2025 /1/ which is in line with the GS4GG Registry. The version and the completion date of the report are available at the cover page of the PDD. “GS4GG Project Design Document Template /5/ , version 1.5” which is the latest version is applied with the PDD /1/ . The information transferred from the older version of PDD to latest version has been verified. Parameters and results such as employment number, electricity generation, emission factor, emission reduction values and OFN have been verified by comparing the previous re-validation report. Also previous PD has been reviewed and because it is validated by another VVB risk level is low.
Findings	NA
Conclusion	RINA confirms that the PDD is based on the currently valid GS4GG Project Design Document Template /5/ , version 1.5.

D.2. Compliance with GS Passport form

Means of validation	No GS Passport is available under GS4GG.
Findings	NA
Conclusion	No GS Passport is available under GS4GG.

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

Means of validation	The project correctly applies the approved baseline and monitoring methodologies “ACM0002”, “Grid-connected electricity generation from renewable sources”, version 22.0 of 31/05/2024 /6/. The applied methodologies are approved by CDM and the applied versions are the latest version at the time of PDD submission. In addition, the following methodological tools are applied in this PDD: • TOOL07 “Tool to calculate the emission factor for an electricity system” Version 07.0 /7/. • TOOL01 “Tool for the demonstration and assessment of additionality”, Version 07.0 /8/. • TOOL03 “Tool to calculate project or leakage CO2 emissions from fossil fuel combustion”, Version 03.0 /9/. • TOOL11 “Tool to assess the validity of the original/current baseline and to update the baseline at the renewal of a crediting period “ 03.0.1 /10/. The project activity is a greenfield, grid connected renewable electricity generation project. • The project activity is the installation of wind power plant. • The project does not involve capacity addition, a retrofit of (an) existing plant(s) or a replacement of (an) existing plant(s). • The project does not involve Integrate BESS with a Greenfield power plant; BESS + capacity addition to existing plant(s); BESS with no other changes to the existing plant(s) and BESS + retrofit to existing plant(s). • Project activity does not involve switching from fossil fuels to renewable energy sources at the site of project activity. • Project activity does not involve biomass fired power plants/units. • The project does not involve combined heat and power generation activity. • The geographic and system boundaries for the relevant electricity grid can be clearly identified and information on the characteristics of the grid is available. According to applicability conditions given in the tools; • Tool 01 Tool for the demonstration and assessment of additionality: The project uses relevant tool together with ACM0002 methodology. No new methodology is used.
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	Tool 07 Tool to calculate the emission factor for an electricity system: This tool is applicable and used for the calculation of OM, CM and CM since the project activity includes grid power plants and supplies electricity to the grid.
Findings	NA
Conclusion	RINA confirms that the selected baseline and monitoring methodologies have been previously approved by the CDM Executive Board and are applicable to the project, which complies with all the applicability conditions therein the selected versions are valid at the time of submission of crediting period. It is also confirmed that the methodologies are correctly applied by comparing them with the actual text of the applicable versions.

D.4. Validity of original baseline or its update

Means of validation	The project applies for a renewal of the crediting period under the requirements of The Gold Standard Foundation so the Methodological Tool “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period”, Version 03.0.1 /10/ is applied to demonstrate that the conditions used to determine the baseline emissions in the previous crediting period still valid. The validity of the current baseline is assessed using the following Sub-steps: Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies It is validated that the project activity baseline is the “Grid-connected electricity generation from renewable sources”. It is still in compliance with the current legal framework as stated in the generation license /12/. There are no additional laws that came into force that has an impact on the project activity and the project activity is still in line with the available law and regulations. In addition to this since 2019 Turkish Ministry of Energy and Natural Resources calculates and presents the Türkiye National Electricity Generation Grid Emission Factor /14/. Step 1.2: Assess the impact of circumstances It is assessed that the conditions used to determine the baseline emissions in the previous crediting period are still valid. There is no need any of new fuels or raw materials and the impact of electricity or fuel prices in the identification of the current practice for the baseline emissions. As stated earlier the new national circumstances have an impact on the EF /14/ of the grid and thus on the project's current baseline emissions. Step 1.3: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested. It is assessed that the remaining technical lifetime of the equipment that would have continued to be used in the absence of the project activity. In general, the technical lifetime of the project activity (including wind turbines) is defined as 25 years /30/ but in real case scenario it seems to be higher than the 25 years thanks to regular maintenance and new technical upgrades. So, the equipment's lifetime exceeds the crediting period for which renewal is requested. Equipment only requires regular maintenance. The baseline scenario identified at the validation of the project activity was the continuation of grid-connected electricity generation from renewable sources. Under this scenario, no investment from the project's proponent or third party (or parties) has been envisioned later specifically for the project. Step 1.4: Assessment of the validity of the data and parameters The data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period are still valid have been assessed. For baseline calculation there are two main parameters: the electricity generation and the grid emission factor. In line with the tool and methodology /6/
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	/28/, only the grid emission factor has been updated during the third crediting period renewal. According to the tool /28/, the application of Steps 1.1, 1.2, 1.3 and 1.4 confirmed that the current baseline as well as data and parameters are still valid for the 3rd and last crediting period, then this baseline, data and parameters can be used for the renewed crediting period. Step 2.1: Update the current baseline The current baseline emissions for the subsequent crediting period have been updated. Step 2.2: Update the data and parameters In line with the tool and methodology, only the grid emission factor has been updated during the second crediting period renewal. The project activity is in its 3rd crediting period. During the previous crediting periods, the project has not missed or skipped neither timeline of verification nor CP renewal process. The ongoing financial need for carbon revenue continues for the last crediting period. Since the increased maintenance and repair costs, exchange rate effect and also the system usage and operation fees that need to be paid by the project activity to Turkish Electricity Transmission Corporation (TEİAŞ) is another important factor contributing to the project's expenditure. It is validated that the Çanakkale WPP needs the supporting income derived from carbon credits since the electricity generation market has challenges due to the Regulator intends to keep electricity prices at minimum. Project owner declared that VER revenue from the project is mostly used for the operation costs. The ratio of carbon sales revenue to electricity sales revenue is 2%.
Findings	NA
Conclusion	RINA verified that the baseline was updated assessed according to the tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period" /10/. The conclusion is that the baseline of the type I component of the project activity complies and will continue to comply with the laws and regulations in the sector for the next crediting period. It can be concluded that the conditions used to determine the baseline emissions in the previous crediting period are still valid.

D.5. Do No Harm Assessment

Means of validation	As per GS4GG Safeguarding principles and requirements version 1.2, all projects shall conform to the Gold Standard for the Global Goals Safeguarding Principles & Requirements. SDG Impact tool has been also implemented as required by GS4GG and verified through the assessment tool by VVB /3/. SDG Impact Tool has been verified /32/ and in line with requirements that has been described "The SDG Impact Tool" version 2.0 date of 14/03/2022. The assessment is done as follows: <u>Principle 1- Human Rights:</u> The Project is not in conflict with the economic livelihood or other issues of the local community. Thus, the Project VVBs do not cause any human rights abuse and respects internationally proclaimed human rights issue. Türkiye has ratified European Convention on Human Right /18/ on 10/03/1954. Therefore, the project is not expected to violate the rules regarding human rights. <u>Principle 2 – Gender Equality and Women's Rights:</u> Türkiye has ratified ILO convention 100, 111, 122 and 142, which provides gender equality and promotes women's employment /19/. The project outputs
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	serve everyone without regarding gender. It provides electricity for all. <u>Principle 3 – Community Health, Safety and Working Conditions:</u> Türkiye has ratified ILO convention 155 /24/ and about work safety and precautions. Staff will be trained during operation phases. <u>Principle 4 – Cultural Heritage, Indigenous Peoples, Displacement and Resettlement:</u> According to the registered PDD /13/ and Validation Report /25/ of Çanakkale WPP, no sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture were observed in the project area. <u>Principle 5 – Corruption:</u> Türkiye has ratified several conventions on bribery and corruption /20/ including OECD and UN conventions. <u>Principle 6 – Economic Impacts:</u> Türkiye has ratified ILO 87 and 98 conventions. All employees are recruited according to the national legislations. Türkiye is a party of IPEC /22/, /23/ since 1992 and ratified ILO convention 138 and 182. Enerjisa Enerji Üretim A.Ş.. and appointed subcontractors do not involve in any form forced or compulsory labour Türkiye has ratified ILO 29 Forced Labour Convention /21/. ENVIRONMENTAL & ECOLOGICAL SAFEGUARDING PRINCIPLES: <u>Principle 1 – Climate and Energy:</u> The project reduces greenhouse gas emissions and fossil fuel use compared to the baseline scenario. On the contrary the project generates renewable energy and supplies to the grid. <u>Principle 2 – Water:</u> The project is a wind power project thus there is no direct impact of water resources due to the project. Staffs produce the insignificant amount of waste waters, and this wastewater has been collected in an impermeable septic tank and collected via vacuum trucks by municipality and disposed according to Regulation on Control of Water Contamination as confirmed through the registered PDD /1/. <u>Principle 3 – Environment, ecology and land use:</u> The Land for the project has been approved by all relevant local Authorities. The project is susceptible to decreased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme conditions. Çanakkale WPP systems do not affect the herbal life negatively. Furthermore, Çanakkale WPP project not affect negatively organism, flora, fauna or GMOs as confirmed through the previous registered PDD /13/ The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. The environment is protected by several Laws and Regulations in Türkiye. The purpose of the “Law on Environmental Protection” is to protect the environment with principles of sustainable development and environment. The project owner also follows necessary procedures for environmental safety at the project site at international standard (such as Bern Convention). All wastes are disposed of according to related regulations. The methods are categorized for all materials. Waste oil produced has been collected appropriately and disposed via accredited abatement companies in line with the legal regulations as confirmed through the registered PDD /13/. The same processes apply for this crediting period.
Findings	NA
Conclusion	RINA confirms that conservative approach has been applied by PP to demonstrate sustainable development of the project activity which is in line with GS4GG requirements and SDG Tool Impact Requirements /3/ .

D.6. Impact assessment – Sustainable Development Matrix

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

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

Means of validation	<u>Baseline Emissions</u> The calculation of baseline emission reductions is carried out in a conservative manner providing documentation and references to data sources. An approved CDM methodology, ACM0002 /6/ and methodological tool “Tool to calculate the emission factor for an electricity system /7/ is applied. The official published data, Turkish Ministry of Energy and Natural Resources /14/ are used to determine the emission factor of the grid. The emission factor is calculated as a combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the tool. <u>OM Calculation</u> Option (a) simple OM is selected to calculate the operating margin (OM) emission factor of the grid as per the tool since the average share of electricity generation by low-cost/must-run plants for five most recent years is found to be less than 50%. <u>BM Calculation</u> The build margin (BM) emission factor calculation is in line with the latest version of methodological tool “Tool to calculate the emission factor for an electricity system /6/. <u>CM Calculation</u> The combined Margin is calculated for wind and solar power generation project activities: $w_{OM} = 0.75$ and $w_{BM} = 0.25$ for the first crediting period and for subsequent crediting periods. <u>Project Emissions</u> Project emissions are neglected since the project activity is a wind power plant in line with the ACM0002 /6/. <u>Leakage</u> The leakage emissions are neglected as per ACM0002 /6/. <u>Emission Reduction</u> The ex-ante emission reduction has been calculated as the following equation in line with the ACM0002 /6/: $ER_y = BE_y - PE_y - LE_y$ The project emission and leakage are neglected for the project activity. Therefore, the emission reduction equals baseline emissions. All the assumptions and data used by the project participants are listed in the PDD including their references and sources. All the documentation used by the project participants as the basis for assumptions and source of data are quoted and interpreted in the PDD and the Emission Reduction Calculation Spread Sheet /2/.
Findings	NA
Conclusion	It is RINA's opinion: (a) All assumptions and data used by the PP are listed in the PDD; (b) All documentation used by the PP as the basis for assumption and source of data is correctly quoted and interpreted in the PDD (c) All values used in the PDD and ERs spreadsheet including GWPs are considered reasonable in the context of the proposed project activity (d) The baseline methodology and methodological tools have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions;

All estimates of the baseline and project emissions can be replicated using the data and parameters values provided in the PDD and ERs spreadsheet.

D.8. Validity of monitoring plan

Means of validation	The monitoring plan (data and parameters fixed ex ante) includes all data and parameters fixed ex ante required by the applied methodology /6/.				
	Parameters ex-ante:				
		Data/parameter	Unit	Value applied	Assessment
	/1/	Operating Margin of Türkiye National Grid (OM)	tCO ₂ /MWh	0.7108	The data used to determine the OM emission factor of the grid is obtained from “Turkish Ministry of Energy and Natural Resources” /14/. The re-validation team has confirmed that this is the most updated data at the time for submission for re-validation, which is considered as appropriate.
	/2/	Build Margin of Türkiye National Grid (BM)	tCO ₂ /MWh	0.3812	According to Tool07 “Tool to calculate the emission factor for an electricity system” the data used to determine the BM emission factor of the grid is obtained from last-registered PDD (previous re-validation), which is considered as appropriate.
	/3/	Combined Margin of Türkiye National Grid (CM)	tCO ₂ /MWh	0.6284	The emission factor is calculated as a combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the tool /7/.
	Parameters ex-post:				
		Parameter	Description/Assessment		
	/1/	EG _{PJ,grid,y} (MWh)	Quantity of electricity generation supplied by the project plant to the grid in year y		
			The quantity of electricity supplied by the project plants/units to the grid and the quantity of electricity delivered to the project plant/unit from the grid will be measured. Net generation will be calculated via subtracting energy delivered by the project activity to the grid for internal consumption from electricity fed to the grid. The electricity generation of the plant will be calculated based on meter readings and crosschecked with EPIAS records that are the basis of sold electricity. The net electricity will be measured continuously and recorded at least monthly. For this crediting period the value of the parameter is defined as 91,570 MWh/y /2/. Net electricity generation will be measured by two meters which will be sealed by TEIAS. The meters will comply with EMRA (Energy Market Regulatory Authority) regulation /15/. The accuracy class of the meters defined and confirmed as 0.5s are in line with the “Communiqué for Measurement Devices used in the Electricity Market” /16/ as explained in the PDD /1/. The maintenance and calibration of meters are under TEIAS responsibility. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration.		

Current Electricity Meters		
	Electricity Meter(Primary)	Electricity Meter (Secondary)
Manufacturer	EMH	EMH

			Model	LZQJ-XC	LZQJ-XC
			Serial number	10962383	10962384
			Date of installation	26/05/2022	26/05/2022
			First Index Protocol	26/05/2022	26/05/2022
			Test Date	23/05/2024	23/05/2024
			The accuracy of meters	0.5s	0.5s
			The meters have the accuracy of 0.5 s as confirmed through first index protocol /17/. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” /17/ and given information in the PDD /1/. The electricity meters are sealed by TEİAŞ as confirmed during the site visit. The meters were calibrated on 26/05/2022 as confirmed through first index protocol /17/ performed by TEİAŞ. The recalibration of these meters will be done in line with the equipment requirements and through the period defined by national metrology institutes country by country and for Türkiye this period is defined as 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /15-16/. In addition, protocol between company and TEİAŞ; It is stated that the periodic inspection and testing of the meters should be done every 2 years. The last periodic control of the electricity meters has been done at: 23/05/2024.		
Findings	NA				
Conclusion	It is RINA’s opinion that the monitoring plan is in accordance with the monitoring methodology; the monitoring plan will give opportunity for real measurement of achieved emission reductions. RINA has checked all the parameters presented in the monitoring plan against the requirements of the methodology and methodological tools. RINA confirms that the monitoring arrangements described in the monitoring plan, including the data management and quality assurance and quality control procedures, are feasible within the project design, and the means of implementation of the monitoring plan are sufficient to ensure the emission reductions achieved by/resulting from the proposed GS4GG project activity can be reported ex post and verified.				

D.9. Validity of the sustainability monitoring plan

Means of validation	The Sustainability Monitoring Plan includes the way of monitoring for each GS4GG indicator.			
		Parameter	Description/Assessment	
	1	EG _{PJ,grid,y}	SDG 7 - Indicator 7.2.1 – “renewable energy share in the total final energy consumption”: The electricity generation supplied to the grid will be monitored by EPIAS records. It is expected that the project generates 91,570 MWh/y /2/.	
	2	Quantitative employment and income generation	SDG 8: Decent Work and Economic Growth: Number of employment generation will be monitored once for each monitoring period by employment SGK records (Social insurance registries of employees). The project provides 15 permanent employments.	
	3	Quality of employment	SDG 8: Decent Work and Economic Growth: HSE trainings will be provided to all employees. Attendance records or training certificates of Health and Safety trainings will be provided to all employees.	
	4	ER _y	SDG 13 - Indicator 13.3.1 – Baseline emissions correspond to emission reductions and are calculated as the net electricity generated by the project activity, multiplied with combined margin CO2 emission factor for grid connected power generation in year y. Both measured and calculated	

			Emission reductions will be calculated as considering the EPIAS records for the net electricity generated and the emission factor for the grid, which is calculated and published by The Ministry of Energy and Natural Resources of Türkiye /14/. According to EF and net electricity generation emission reduction is applied as 57,542 tCO ₂ .
	5	Biodiversity	Safeguarding Principle 9.10 High Conservation Value Areas and Critical Habitats Monitoring of bird/bat carcasses and nests will be carried out by appointed personnel.
Findings	NA		
Conclusion	RINA confirms that sustainability monitoring plan and indicators included in the PDD confirm to the sustainable development requirements of GS4GG.		

D.10. Crediting period

Means of validation	The third and last crediting starting date is 11/02/2025 /1/. The length of crediting period is defined as 7 years so end date of CP is 10/02/2032.
Findings	NA
Conclusion	RINA confirmed that this is the third crediting period of the registered GS4GG project activity.

D.11. Project participants

Means of validation	Project Participant of the project activity is Enerjisa Enerji Üretim A.Ş.who is authorized to benefit from carbon income.
Findings	NA
Conclusion	Project Participant of the project activity is Enerjisa Enerji Üretim A.Ş.. who is authorized to benefit from carbon income.

D.12. Local stakeholder consultation process

Means of validation	The project validated via online audit on 17/01/2025 for re-validation. Based on the interviews, there are no complaints from the local community regarding the project implementation &operation /11/. The project participants applied a local stakeholder consultation (LSC) process on 14-15/07/2009 line with the regular requirements of GS. Also a stakeholder feedback round has been realized in compliance with the GS procedures governing the issue 60 days by sending the project summary and environmental and socioeconomic questionnaire by courier for initial validation of project. Also grievance boxes have been located at Mukhtar's office and always available for stakeholders to provide their opinion. Grievance box was checked during on site visit and no compliance was observed. For the Çanakkale WPP, stakeholder engagement procedure was conducted online and the local stakeholders from Mahmudiye and Üvecik participated in this online meeting at the project site on 17/01/2025. During the meeting, the stakeholders stated that they had no complaints. In addition, feedback box was checked to see whether there have been any complaints from the local stakeholders, and it is seen that there were no negative comments from the local stakeholders.
Findings	NA
Conclusion	RINA verified that no negative feedback is received during the CP renewal process on 17/01/2025.

D.13. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	N
Corrections	N

Inclusion of a monitoring plan to a registered project activity	N
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	N
Changes to the project design of a registered project activity	N
Types of changes specific to afforestation and reforestation project activities	N

SECTION E. Internal quality control

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

SECTION F. Validation opinion

RINA has performed the validation of the updated PDD version 0.1 of 14/01/2025 for the project activity "Çanakkale WPP" in Türkiye, GS Registration Reference No. 906; the validation is performed for the 3rd renewal crediting (from 11/02/2025 to 10/02/2032) and is based on the information available to us.

The review of the PDD version 0.3 and the subsequent follow-up interview have provided RINA with sufficient evidence to determine the validity of the original baseline and the sustainable indicators; the project correctly applied the baseline and monitoring methodologies ACM0002, Grid-connected electricity generation from renewable sources - version 22.0 of 31/05/2024.

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

Appendix 1. Abbreviations

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

Appendix 2. Competence of team members and technical reviewers



CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

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

Mehmet ERDOGAN

è qualificato come¹:
is qualified as:

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

nello schema²:
for the scheme:

VCS – CCB – GS4GG

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

1.1 – 1.2 – 9.2 – 13.1 – 13.2

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

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

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	24.03.2023	First Issue
1	12/04/2023	GS4GG extension
2	24/07/2023	GS4GG VAL extension
3	10/12/2023	TEC SS3 extension
4	31/01/2024	ITR extension

Il Responsabile di schema
Scheme Manager

¹
VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
REG-EXP: Regional Expert
ITR: Independent Reviewer
DET: Determiner

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

³ Turkey

⁴ For GS4GG only

RINA Services S.p.A. è accreditata da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS.

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

GHG_QUAL_CERT_EN(06-2021)

Page 1 of 2

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

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

Thais De Lima Carvalho

è qualificato come:
is qualified as:

TEC, VAL, VER, TL, ITRP

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

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

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

Responsabile di schema
Scheme Leader
Rita Valeroso



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

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

RINA Services S.p.A. è accreditato/riconosciuto da
RINA Services S.p.A. is accredited /recognized by

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

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	Sekans Danışmanlık	PDD for “Çanakkale WPP”	Version 0.3 of 30/01/2025 Version 0.2 of 23/01/2025 Version 0.1 of 14/01/2025	Project Participant
2	Sekans Danışmanlık	ER calculations_Canakkale_WPP_v03_19_04_2025	Version 0.3 of 19/04/2025 Version 0.2 of 30/01/2025 Version 0.1 of 16/01/2025	Project Participant
3	Gold Standard Foundation	GS4GG Standard Requirements	version 2.0 of 12/11/2024	Publicly available
4	CDM Executive Board	CDM Validation and Verification Standard for Project Activities	version 03 of 09/09/2021	Publicly Available
5	Gold Standard Foundation	GS4GG PDD Report Form	version 1.5 of 29/06/2023	Publicly available
6	CDM Executive Board	“ACM0002”, “Grid-connected electricity generation from renewable sources”	version 22.0 of 31/05/2024	Publicly Available
7	CDM Executive Board	Methodological Tool: Tool to calculate the emission factor for an electricity system	version 07.0 of 31/08/2018	Publicly Available
8	CDM Executive Board	Methodological Tool: Tool for the demonstration and assessment of additionality	version 07.0 of 23/11/2012	Publicly Available
9	CDM Executive Board	Methodological Tool: Tool to calculate project or leakage CO2 emissions from fossil fuel combustion	version 03.0 of 22/09/2017	Publicly Available
10	CDM Executive Board	Methodological Tool: “Tool to assess the validity of the original/current baseline and to update the baseline at the renewal of a crediting period “	version 03.0.1 of 02/03/2012	Publicly Available
11	Mahmudiye and Üvecik Village	Logbook	seen on 17/01/2025	Project Participant
12	Energy Market Regulatory Authority	Generation License EU/1501-2/1088	date of 21/02/2008	Project participant
13	Sekans Danışmanlık	Registered PDD of 2 nd crediting period	version 3 of 10/06/2021	Project participant
14	Turkish Ministry of Energy and Natural Resources	Türkiye National Electricity Grid Emission Factor Information Form	version 00 of 26/11/2024	Project Participant
15	The Ministry of Trade and Industry	Regulation of Metering and Testing of Metering Systems	of 24/07/1994	Project Participant
16	Turkish Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	of 22/03/2003	Project Participant
17	TEIAS	1 st Index Protocol of the Electricity Meters	date of 26/05/2022	Project participant
18	Website: Argument: Language:	https://www.mevzuat.gov.tr/MevzuatMetin/1.5.6701. pdf Human Rights Turkish	Retrieved on 05/07/2024	Publicly Available

19	Website: Argument: Language:	http://www.ilo.org/ankara/areas-of-work/equality-discrimination/lang-tr/index.htm Gender Equality and Women's Rights Turkish	Retrieved on 05/07/2024	Publicly Available
20	Website: Argument: Language:	https://www.mevzuat.gov.tr/MevzuatMetin/1.5.3628.pdf Bribery and Corruption Turkish	Retrieved on 05/07/2024	Publicly Available
21	Website: Argument: Language:	http://www.ilo.org/ipecc/programme/lang-en/index.htm Elimination of Child Labour English	Retrieved on 05/07/2024	Publicly Available
22	Website: Argument: Language:	http://www.ilo.org/ipecc/Regionsandcountries/lang-en/index.htm Regions and Countries English	Retrieved on 05/07/2024	Publicly Available
23	Website: Argument: Language:	http://www.ilo.org/dyn/normlex/en/f?p=1000:11200:0::NO::P11200_COUNTRY_ID:102893 Regions and Countries English	Retrieved on 05/07/2024	Publicly Available
24	Website: Argument: Language:	https://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:12100:0::NO::P12100_ILO_CODE:C155 Occupational Safety and Health Convention English	Retrieved on 05/07/2024	Publicly Available
25	Re-carbon	Validation report N° 657	Version 0.2 of 14/06/2021	Project Participant
26	Verra	https://registry.verra.org/app/search/VCS/All%20Projects , Argument: VERRA Database	Retrieved on 05/07/2024	Other
27	GCC	https://projects.globalcarboncouncil.com/pages/submitted_projects	Retrieved on 05/07/2024	Other
28	CDM Executive Board	Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation	version 03.0 of 22/09/2017	Publicly Available
29	CDM Executive Board	Tool to determine the remaining lifetime of equipment	version 01.0 of 16/10/2009	Publicly Available
30	Enerjisa Elektrik Üretim A.Ş.	Canakkale_PTD	09/2009	Project Participant
31	Gold Standard Foundation	GS Validation and Verification Standard for Project Activities	Version 2.0 of 12/11/2024	Publicly Available
32	Sekans Danışmanlık	SDG Impact Tool_Canakkale_Wind_v01_30.01.2025	Version 0.1 of 30/01/2025	Project Participant

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

Table 1. Remaining FAR from previous verification

FAR ID	1	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.		Date: 20/01/2025
Description of CR				
1. Please share GS renewal review, latest validation and verification reports.				
Project participant response				Date: 23/01/2025
They have been provided to the VVB.				
Documentation provided by project participant				
GS renewal review, latest validations and verification reports are available to the VVB.				
VVB assessment				Date: 23/01/2025
Verified.				

CR ID	2	Section no.		Date: 20/01/2025
Description of CR				
Under below section A.1. project capacity has been mentioned as 29.9 MW and 52.6 MWe in different paragraphs. Please explain further and revise accordingly.				
Project participant response				Date: 23/01/2025
The project capacity is 29.9 MW. Section A.1 has been revised accordingly.				
Documentation provided by project participant				
The PDD has been revised.				
VVB assessment				Date: 23/01/2025
Verified.				

CR ID	3	Section no.		Date: 20/01/2025
Description of CR				
1. Under section A.3, please revise typo mistake shown below. It should be Mwe instead of MWs. The Project Scenario entails the installation of thirteen Siemens SWT-3.0-101 wind turbines, each having a capacity of 2.3 MWs. The turbines are 3 bladed with a horizontal 2. Please check section titles such as B.6.2 and B.6.3. They should be aligned with GS-MR reporting format. Please check and revise other titles if needed.				
Project participant response				Date: 23/01/2025
1. Section A.3 has been revised. 2. The headings have been revised throughout the PDD.				
Documentation provided by project participant				
1.2. The PDD has been revised.				
VVB assessment				Date: 23/01/2025
1. Verified. 2. Verified.				

CR ID	4	Section no.		Date: 20/01/2025
Description of CR				
1. During the online audit, the employee number was mentioned as 14. However, it is written 3 employees throughout the monitoring report. Please explain further and revise accordingly.				
Project participant response				Date: 23/01/2025
1. There are 14 people actively working at the plant, and 1 person is a survey engineer and works periodically. The total number of employees is 15, and PDD has been revised according to this information. Social Security Records have been submitted to VVB.				
Documentation provided by project participant				
The PDD has been revised and the Social Security Records are available to the VVB.				
VVB assessment				Date: 23/01/2025
Verified.				

CR ID	5	Section no.		Date: 20/01/2025
Description of CR				
Please share first index protocol and electricity meter pictures with serial numbers on it.				
Project participant response				Date: 23/01/2025
They have been provided to the VVB.				
Documentation provided by project participant				
The first index protocol and electricity meter pictures have been available to the VVB.				
VVB assessment				Date: 23/01/2025
<u>Verified.</u>				

Table 3. CAR from this validation

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

Table 4. FAR from this validation

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

Document information

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