Validation report form for renewal of GS4GG Project Activities (Gold Standard for the Global Goals)	
BASIC INFORMATION	
Title and GS reference number of the project activity (PA)	Aliağa Wind Farm GS 735
Time of First Submission Date	27/05/2011
Date of Design Certification	03/04/2012
Version number of the validation report for RCP	3.1
Completion date of the validation report for RCP	18/12/2024
Version number and date of PDD to which this report applies	Version 9.0 16/12/2024
Project Developer	Bergama RES Enerji Üretim A.Ş.
Project Representative	Bergama RES Enerji Üretim A.Ş.
Host Party	Türkiye
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Scale of the project activity	Large scale
Applied methodologies and standardized baselines	ACM0002: Grid-connected electricity generation from renewable sources (Version 21.0)
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A

Mandatory sectoral scopes	1: Energy Industries (renewable/ non-renewable sources)
Conditional sectoral scopes, if applicable	--
Estimated amount of annual average GHG emission reductions	187,114 GS VERs
SDG Outcomes	SDG 07. Affordable and Clean Energy SDG 08. Decent Work and Economic Growth SDG 13. Climate Action
Name and UNFCCC reference number of the VVB	Earthood Services Private Limited E-0066
Name, position, and signature of the approver of the validation report	 Dr. Kaviraj Singh, Managing Director

SECTION A. Executive summary

The project activity "Aliağa Wind Farm" with GSID- GS735 comprises of operation of grid connected wind power plant in Türkiye. The project activity is a large-scale project activity. The project activity consists of a capacity of 90 MW as per the generation license/13/ dated 17/07/2008. The project consists of 36 wind turbines each having a capacity of 2.5 MW. EMRA later revised the generation license/13/ of the project activity on 13/03/2013 to have a total capacity of 120 MW. Ten additional turbines each capacity of 3 MW was installed. However, since the Project did not undergo a design change procedure under GS, emission reduction claims will be conducted with the 90 MW registered capacity. The emission reductions will be calculated from the 90MW registered capacity.

The project harnesses the wind energy to generate and supply electricity to the national grid of Türkiye. The wind turbine works on the lift and drag principle to produce a positive turning force on the shaft, which results in the rotation moment of the shaft. The mechanical power produced by the rotatory movement is converted to electricity by using a generator and a gearbox. The WTGs can only convert wind energy into electrical energy and hence, do not use any other type of fuel for the same.

The electricity generated by the project activity is supplied to the Turkish national grid and hence, displacing electricity that would have been generated through a carbon intensive fossil fuel-based power plant or by addition of new units (fossil fuel based) in the future. The total estimated annual average emission reduction for this crediting period is 187,114 tCO_2e.

Scope of Validation

The scope of the services provided by Earthood Services Private Limited for the project is to perform validation of the renewal of crediting period for GS4GG project activity. The scope of validation is to assess the claims and assumptions made in the revised project design document (PDD) /01/ against the GS4GG principles and requirements /04/ criteria and GS4GG VVB requirements /05/, including but not limited to, GS Validation and verification manual/06/, applied methodology /10/ and other relevant rules and requirements established for GS4GG PA.

Validation Process

The validation process is undertaken by validation team that involves the following:

- The desk review of documents and evidence submitted by the project participant in context of the reference GS4GG rules and guidelines.
- Undertaking remote site visit, interview, or interactions with the representative of the project participant.
- Reporting audit findings with respect to clarification and non-conformities and the closure of the findings as appropriate.
- Preparing a draft validation report for renewal of GS4GG programme of activities period complying with the GS4GG principles and requirements.

An independent Technical Review team reviews the validation report prepared by the validation team. The final validation report that is accepted by Technical Reviewer is then approved on behalf of Earthood Services Private Limited and processed further as per GS4GG procedures.

Conclusion

The review of the PDD and supporting documentation and subsequent follow-up actions (interviews and interactions with PD) has provided ESPL with sufficient evidence to determine the fulfilment of stated criteria. ESPL is of the opinion that the PA "Aliağa Wind Farm" GSID 735 as described in the final revised PDD version 9.0/01/ meets all relevant requirements of GS4GG, meets host country criteria and has correctly applied the methodology ACM0002

"Grid-connected electricity generation from renewable sources" version 21.0 /10/. Therefore, the project is being recommended to GS4GG for request for its renewal of GS4GG project activities period.

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 DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection*	Interview(s)	Validation findings
1.	Team Leader	IR	Amlani	Jinesh	Central Office	Y	Y	Y	Y
2	GS Approved Auditor	IR	Phukan	Sukanya	Central Office	Y	N	N	Y
3.	Technical Expert (TA 1.2)	IR	Amlani	Jinesh	Central Office	Y	Y	Y	Y
4.	Local Expert	IR	Agriman	Kubra	Central Office	N	Y	Y	N
5.	Validator/ Trainee Team Leader	IR	Dsouza	Kerwyn Donald	Central Office	Y	Y	Y	Y

*Remote audit has been conducted for this assessment.

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 DOE or outsourced entity)
1.	Technical reviewer and TA expert to TR	IR	Varshney	Divij	Central Office
2.	Approver	IR	Singh	Kaviraj	Central Office

SECTION C. Means of validation

C.1. Desk/document review

The validation for the renewal of crediting period is performed primarily as a document review of the project design document version 9.0 dated 16/12/2024 /01/. The cross check between information provided in the PDD and information from source other than those used, if available, the validation team's sectoral or local expertise and, if necessary, independent background investigations. The complete list of documents/evidence assessed by validation team in included under Appendix 3.

C.2. On-site inspection

Duration of on-site inspection: NA				
No.	**Activity performed on-site**	**Site location**	**Date**	**Team member**
1.	NA	NA	NA	NA

As per the para 3.2.1 of GS Site visit and remote audit requirements, "A physical site visit by VVB is not mandatory at the validation (Design Certification or Design Certification Renewal) of a project".

However, the validation team, has conducted remote audit on 10/01/2024 to discuss the re-validation of the project activity, on-going financial needs, monitoring parameters and other aspects of project. The remote audit includes the interview with the PD representative and local stakeholders. Under the scope of remote site visit, photographic evidence of project activity implementation on given location and plant monitoring records were shared with the validation team a part of the assessment.

C.3. Interviews

No.	**Interviewee**			**Date**	**Subject**	**Team member**
	Last name	**First name**	**Affiliation**			
1.	Khan	Aligo	Bilgin Enerji	10/01/2024	Implementation of project activity, baseline scenario, on-going financial need, monitoring parameters, calibration details, SDGs parameters, local stakeholder meeting details Impacts due to the project activity, grievance mechanism	Jinesh Amlani, Kerwyn Donald Dsouza, Kubra Agriman
2.	Akdag Gokagacli	Baharsu	Bilgin Enerji			
3.	Akdeniz	Ayse	Atçılar Village			
4.	Akdeniz	Selim	Atçılar Village			
5.	Onder	Yusuf	Atçılar Village			

C.4. Sampling approach

No sampling approach was applied as project activity is a wind power plant project and did not require a sampling plan. 100% of data related to wind power plants were presented in the PD and estimated ER sheet was reviewed.

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Area of validation findings	**No. of CL**	**No. of CAR**	**No. of FAR**
General description of Project Activity	-	-	-
Compliance with PDD form	-		-
Description of project activity	-	-	-
Location of project	-	CAR#01	-
Technologies and/ or measures	-	CAR#02	-

Funding sources of project	-	-	-
Eligibility criteria under Gold Standard	-	-	-
Eligibility criteria under applied methodology	-	-	-
Project boundary, sources and GHGs	-	-	-
Validation of baseline scenario	-	-	-
Demonstration of Additionality	-	-	-
Ongoing financial need	-	CAR#03	-
Sustainable Development Goals targeted by the project activity	-	-	-
Estimation of emission reductions	-	-	-
Monitoring plan	CL#01	-	-
Start date, crediting period and duration	-	-	-
Safeguarding principle and SDG outcome assessment	-	-	-
Safeguarding principles assessment	-	-	-
Gender sensitive assessment	-	-	-
Local Stakeholder Consultation	-	-	-
Local stakeholder consultation conducted during validation	-	-	-
Grievance mechanism for continuous input	-	-	-
Internal quality control	-	-	-
Validation opinion	-	-	-
Others * (FARs from previous validation and verification)			
Total	01	03	0

SECTION D. Validation findings

D.1. General description of Project activity

D.1.1. Compliance with PDD form

Means of validation	The PDD form template used for the project activity is GS4GG Key Project Information & Project Design Documentation v1.5/11/, which is a valid version available at the time of validation. All the sections of the above form were filled as per the key Project Information & Project Design Document v1.5 template guidelines/11/ and all the relevant details were provided in the form.
Findings	No findings were raised.
Conclusion	The final PDD/01/ has been found to be completed using the valid version of the PDD form template. The information that is transferred in the current version of PDD/01/ is materially the same as that in the registered accepted PDD/08/, and in line with the GS4GG principle & requirements/04/.

D.1.2. Description of project activity

Means of validation	The purpose of the project activity is to generate and deliver clean energy to the Turkish national grid via Aliağa Wind power plant project with a capacity of 90 MW, which harnesses the power of wind to generate electricity. Bergama RES Enerji Üretim A.Ş. is the project developer, which was verified through commissioning certificates/16/ and GS passport/24/. The project activity is located on top of the four hills, namely Danişment,

Dutluyayla, Halayık and Sıyırdım in Türkiye, which was verified through Generation license /13/. The GPS coordinates of each WPP is as follows:

Wind Turbine No.	Latitude (North)	Longitude (East)	Wind Turbine No.	Latitude (North)	Longitude (East)
1	38°55'54.67"	27°11'32.42"	**19**	38°54'55.75"	27°11'11.71"
2	38°55'37.58"	27°11'42.34"	**20**	38°54'41.06"	27°11'11.96"
3	38°55'26.41"	27°11'48.42"	**21**	38°54'35.30"	27°11'22.82"
4	38°55'9.70"	27°11'34.96"	**22**	38°54'33.07"	27°10'35.94"
5	38°55'13.54"	27°11'48.51"	**23**	38°54'25.79"	27°10'41.40"
6	38°55'5.58"	27°11'53.01"	**24**	38°54'19.26"	27°10'48.82"
7	38°54'57.65"	27°11'59.05"	**25**	38°54'12.31"	27°10'55.69"
8	38°54'53.19"	27°12'8.55"	**26**	38°54'4.25"	27°11'0.45"
9	38°54'49.87"	27°12'18.63"	**27**	38°55'29.41"	27°10'18.43"
10	38°54'47.84"	27°12'29.59"	**28**	38°53'49.34"	27°11'14.81"
11	38°54'41.66"	27°12'37.21"	**29**	38°53'43.97"	27°11'24.39"
12	38°55'37.74"	27°10'46.65"	**30**	38°53'38.41"	27°11'33.30"
13	38°55'29.36"	27°10'51.40"	**31**	38°53'34.73"	27°11'43.54"
14	38°55'26.25"	27°10'30.42"	**32**	38°53'26.99"	27°11'51.33"
15	38°55'20.20"	27°10'39.34"	**33**	38°53'9.76"	27°11'54.10"
16	38°55'15.09"	27°10'48.46"	**34**	38°53'4.07"	27°12'2.80"
17	38°55'9.30"	27°10'56.83"	**35**	38°52'56.21"	27°12'7.88"
18	38°55'3.16"	27°11'5.71"	**36**	38°52'48.38"	27°12'13.05"

Latitude and Longitude of the physical site for the Project activity has been included appropriately in the PDD/01/, which was checked via generation license/13/, and through google earth app/19/ physical location of the turbines were cross checked and found appropriate.

The scale of the project activity is large scale. The total installed capacity of the project activity is 90 MW which falls under large scale category as per para 119 of CDM PS for PA/48/. The PD obtained the generation licence/13/ for the PA on 17/07/2008 to operate the WPP for a period of 49 years. EMRA later revised the generation license of the project activity

on 13/03/2013 to have a total capacity of 120 MW. Ten additional turbines each capacity of 3 MW was installed. However, since the Project did not undergo a design change procedure under GS, emission reduction claims will be conducted with the 90 MW registered capacity. The emission reductions will be calculated from the 90MW registered capacity.

Initially EIA exemption letter was obtained, dated 29/11/2007 /14/, which was verified and found acceptable. The project implementation documents were reviewed and found correct and valid. Documents pertaining to the project implementation were thoroughly reviewed and found correct and valid.

The electricity generated by the WPP is sold to the Türkiye electricity Grid-TEIAS. The project is expected to reduce the GHG emissions caused by the existing fossil fuel-based power plants by 187,114 tCO_2e per year during renewable 7-year crediting period.

Name	Serial Number	Brand – Model	Date Of Calibration	Accuracy Class	Year of Manufacture
Main Meter (TR2) after 24/11/2019	8923685	EMH – LZQJ-XC	11/10/2019 25/07/2021 05/11/2023	0.2s	2019
Backup Meter (TR2) after 22/12/2019	8923686	EMH – LZQJ-XC	11/10/2019 25/07/2021 05/11/2023	0.2s	2019
Main meter (TR1) after 24/11/2019	8923715	EMH– LZQJ-XC	22/10/2019 25/07/2021 05/11/2023	0.2s	2019
Backup Meter (TR1) after 22/12/2019	8923684	EMH– LZQJ-XC	11/10/2019 25/07/2021 05/11/2023	0.2s	2019

The meter calibration schedule has also been verified through meter calibration certificates/54/ and meter regulation/41/ and found to be appropriate.

To avoid double counting, various registries like VCS, GCC, CDM has been checked and it has been confirmed that the project is not registered any other GHG mechanism except GS. PD has also provided the declaration/23/ regarding the same and is found to be appropriate.

Findings	CAR#1 was raised and resolved.
Conclusion	The information provided in the revised PDD/01/ were compared with the registered PDD and project documents including provisional acceptance document, revised feasibility report were reviewed. The validation team confirms that the project description provided in the registered accepted PDD/08/ and final PDD/01/ is materially the same.

D.1.3. Technologies and/or measures

Means of validation	The technical description of the project activity has been validated through the Generation license/13/, and the Wind Power Plant Project consists of two type of wind turbines of make Nordex with capacities of 2.5 MW and 3 MW which makes the total installed capacity to be 120 MW. The technical description of the wind turbines as assessed in detail below:

	<table><tr><th>Description</th><th>Specification</th><th>Means of validation</th></tr><tr><td colspan="3">Technical Description of Nordex N90 turbine:</td></tr><tr><td>Manufacturer</td><td>Nordex</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Model</td><td>N90/2500</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Rated Power</td><td>2,500kW</td><td>Checked from Commissioning certificate/16/ and registered PDD/08/</td></tr><tr><td>Rotor Diameter</td><td>90 m</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Number of blades</td><td>3 Nos.</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Swept area</td><td>6,362 m^2</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Cut-off wind speed</td><td>25m/s</td><td>Checked from the registered PDD /08/</td></tr></table> <table><tr><th>Description</th><th>Specification</th><th>Means of validation</th></tr><tr><td colspan="3">Technical Description of Nordex N117 turbine:</td></tr><tr><td>Manufacturer</td><td>Nordex</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Model</td><td>N117/3000</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Rated Power</td><td>3,000kW</td><td>Checked from Commissioning certificate/16/ and registered PDD/08/</td></tr><tr><td>Rotor Diameter</td><td>116.8 m</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Number of blades</td><td>3 Nos.</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Swept area</td><td>10,715 m^2</td><td>Checked from the registered PDD/08/</td></tr><tr><td>Cut-off wind speed</td><td>25m/s</td><td>Checked from the registered PDD /08/</td></tr></table> The photographic evidence/22/ of installed WTGs, generator, and electricity meters are shared by the PD, which were found to be consistent with the information in the commissioning certificates/16/.
Findings	CAR#02 was raised and resolved.
Conclusion	The VVB has accepted and validated the technology/ measures applied in the project. The technology involved in the project is described in the revised PDD/01/ with sufficient details and clarity. The accuracy of the project description was determined based on the interview with the PD as part of validation audit, review of supporting documents (as mentioned in Appendix 3), and project site photographs /22/.

D.1.4. Funding sources of project

Means of validation	The project activity doesn't have any public funding or Official Development Assistance (ODA) funding.

Findings	No findings were raised.
Conclusion	No ODA Declaration/25/ document, dated 20/05/2024 has been reviewed and it was found that project did not receive any public finding or ODA funding.

D.2. Eligibility criteria under Gold Standard

Means of validation

The eligibility under gold standard has been discussed as per section 3.1.1 of GS4GG Principle and requirements/04/.

Eligibility Criteria	Assessment
Type of Project	The project is a wind power plant project and is already implemented and registered under GS. The scope of this report is renewal of crediting period for the project activity. it is a WPP and falls under GS eligible project types. The project is in compliance with the para 4.1.3 of GS principle and requirements/04/.
Location of Project	The location of project is Türkiye and is already registered under GS version 2.2. Information regarding location in section A.2 of the PDD/01/ has been consistent with the generation licence/13/ and geo coordinates/19/.
Project Area, Project Boundary and scale	The project activity is implemented on top of the four hills, namely Danişment, Dutluyayla, Halayık and Sıyırdım in Türkiye. The scale of the project is large scale as per para 119 of CDM PS for PA/48/.
Host Country Requirements	The project is in compliance with applicable Türkiye's legal, environmental, ecological and social regulations, which has been verified through EIA Exemption Letter/14/.
Contact Details	The contact details provided are found to be consistent between the final PDD/01/, registered PDD/08/ and GS passport/24/ provided by the PD.
Legal Ownership and other rights	The legal rights of the carbon credits are owned by the Project Representative, which is Bergama RES Enerji Üretim A.Ş.. This has been verified through commissioning certificate/16/, Generation License/13/ and EPIAS Records/29/.
ODA Declaration	As discussed in section D.1.4

The project is undergoing Design Certification Renewal, hence assessment under gold standard has been discussed as per section 5.1.47 of GS4GG Principle and requirements/04/.

Eligibility Criteria	Assessment
a) Changes in the Project as related to the General Eligibility Criteria	The project is a wind power plant project and there is no change in the project as related to the General Eligibility Criteria. The gold standard General Eligibility Criteria has been discussed as per section 3.1.1 of GS4GG Principle and requirements/04/. The scope of this report is renewal of crediting period for the project activity. The project is in compliance with the para 4.1.3 of GS

		principle and requirements/04/.
	b) Incorporation of any relevant updates to the Gold Standard Requirements	The project activity meets all the requirements as stated in GS Principle & Requirements V1.2/04/, GS VVB Requirements V2.0/05/ & GS Validation and Verification Standard V1.0/06/.
	c) Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements.	The baseline scenario is identified according to the "Baseline Methodology Procedure" of ACM0002 ver.21/10/ and has not been re-defined. Hence there is no impact of change on the Eligibility Principles, Criteria and Requirements.
	d) Any Gold Standard activity, product, and methodology-specific Requirements	The project activity meets all the requirements as stated in GS Principle & Requirements V1.2/04/, GS VVB Requirements V2.0/05/ & GS Validation and Verification Standard V1.0/06/ and the requirements stated in the methodology, ACM0002 ver.21/10/.
	e) Demonstration of Ongoing Financial Need, where relevant – see Ongoing Financial Need	Demonstration of Ongoing Financial Need has been discussed in detail section B.5.2 of the PDD/01/ and in section D.7 of this report.
	The project is fulfilling all the eligibility requirements set by the GS under section 3.1.1 and in section 5.1.47 of GS4GG principle and requirements/04/. Hence, the project is eligible for Renewal of crediting period under Gold Standard.	
Findings	No findings were raised	
Conclusion	The VVB has accepted and validated that the project activity meets the eligibility conditions of in accordance with GS4GG principle and requirements/04/ and Renewable Energy activity requirements/17/ as follows: • The scope of this report is renewal of crediting period for the project activity which is already registered in GS (GS ID: GS735) • The project is generating electricity from renewable source i.e., wind power and supplying it to the national grid. • The project activity replaces fossil fuel-based power generation and thus contributing to the sustainable development goals of the host country.	

D.3. Eligibility criteria under applied methodology

Means of validation

The applicability of project activity was verified against CDM approved methodology ACM0002 "Grid-connected electricity generation from renewable sources" v21.0/10/. This also applies to Tool 07-Tool to calculate the emission factor for an electricity system, version 7.0/30/, Tool 10-Tool to determine the remaining lifetime of equipment, version 1.0/31/, Tool 11-Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period version 3.0.1/32/ and Tool 01-Tool for the demonstration and assessment of additionality, version 7.0.0/33/ are applied under the ACM0002. V21.0/10/ methodology.

Eligibility criteria	Means of validation
ACM0002 "Grid-connected electricity generation from renewable sources" Version 21.0	
As per para 4 of applied methodology This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plants/units; (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s).	The project is already registered under GS and already implemented, and scope of this validation assessment is renewal of crediting period. The project activity is a greenfield grid connected wind power plant which was commissioned on 09/04/2010 /16/. This was also cross-checked through Grid generation license/13/ and photographs of WTGs and site/22/. Thus, eligibility criteria was found to be met.
The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit.	The project activity is a greenfield grid connected wind power plant which was commissioned on 09/04/2010 /16/. This was also cross-checked through generation license /13/ and photographs of WTGs and site/22/. Thus, eligibility criteria were found to be met. Since the project activity is a greenfield power plant. This condition was not applicable.
In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation	The project activity does not involve capacity additions, retrofits, rehabilitations or replacements. Hence this criterion is not applicable to the project activity. This was also cross-checked through generation license/13/ and photographs of WTGs and site/22/. Thus,

	of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.	eligibility criteria were found to be met.
	In the case of integrated hydro power projects, project proponent shall: a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project, or b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.	The project activity is not a hydro power plant. Hence this applicability criterion is not relevant to the project activity. This was also cross-checked through generation license/13/ and photographs of WTGs and site/22/. Thus, eligibility criteria were found to be not met.
	The methodology is applicable under the following conditions: (a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit;	The project activity is a greenfield grid connected wind power plant. The condition applies to hydro power plant. Thus, this condition is not applicable to the project.

	(b)	In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity;	
	(c)	In case of Greenfield project activities applicable under paragraph 5 (a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents);	
	(d)	The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only during exigencies[1] may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be	

[1] For example, upon deep discharge of the batteries.

	accounted for as project emissions following the requirements under section. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g. week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period.	
	In case of hydro power plants, one of the following conditions shall apply: (a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or (b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m^2; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m^2; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the	The project activity is a greenfield grid connected wind power plant. The condition applies to integrated hydro power plant. Thus, this condition is not applicable to the project.

	reservoirs, calculated using equation (7), is lower than or equal to 4 W/m^2, all of the following conditions shall apply: (i) The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/m^2; (ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m^2 shall be: a. Lower than or equal to 15 MW; and b. Less than 10 per cent of the total installed capacity of integrated hydro power project.	
	In the case of integrated hydro power projects, project participants shall: (e) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (f) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM	The project activity is a greenfield grid connected wind power plant. The condition applies to integrated hydro power plant. Thus, this condition is not applicable to the project.

project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.	
The methodology is not applicable to: (g) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; (h) Biomass fired power plants/units.	The project activity is a greenfield grid connected wind power plant. This eligibility criteria applies to retrofits, rehabilitations, replacements, or capacity additions. Thus, this condition is not applicable to the project.
In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	NA
In addition, the applicability conditions included in the tools referred to above apply.	Applicability conditions of the applied tool are justified.
Tool to calculate the emission factor for an electricity system, Version 07.0	

	This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity, i.e. where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid (e.g. demand-side energy efficiency projects).	The project activity is a greenfield grid connected wind power plant which was commissioned on 09/04/2010 /16/. This was also cross-checked through Generation license/13/. Thus, eligibility criteria was found to be met.
	Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off-grid power plants. In the latter case, two sub-options under the step 2 of the tool are available to the project participants, i.e. option IIa and option IIb. If option IIa is chosen, the conditions specified in "Appendix 1: Procedures related to off-grid power generation" should be met. Namely, the total capacity of off-grid power plants (in MW) should be at least 10 per cent of the total capacity of grid power plants in the electricity system; or the total electricity generation by off-grid power plants (in MWh) should be at least 10 per cent of the total electricity generation by grid power plants in the electricity system; and that factors which negatively affect the reliability and stability of the grid are primarily due to constraints in generation and not to other aspects such as transmission capacity.	The emission factor used for this Project Activity has been calculated for grid power plants only. The emission factor has been sourced from Türkiye National Grid emission factor /18/, which is found to be acceptable. The detailed explanation is provided in section D.10 of this report.
	In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.	The project is registered under GS with GS ID- GS735. The eligibility criteria is for CDM projects, hence not applicable. Also, the project is already registered under GS and already implemented, and scope of this validation assessment is renewal of crediting period.
	Under this tool, the value applied to the CO_2 emission factor of biofuels is	The project activity is a greenfield grid connected wind power plant

zero.	with no involvement of biofuels. Hence, this condition is not applicable.
Tool for the demonstration and assessment of additionality, Version 07.0	
a) The use of the "Tool for the demonstration and assessment of additionality" is not mandatory for project participants when proposing new methodologies. Project participants may propose alternative methods to demonstrate additionality for consideration by the Executive Board. They may also submit revisions to approved methodologies using the additionality tool.	The additionality for the project was conducted during the validation of the first crediting period employing the Tool for the demonstration and assessment of additionality (Version 5.2).
b) Once the additionally tool is included in an approved methodology, its application by project participants using this methodology is mandatory	The additionality for the project was conducted during the validation of the first crediting period employing the Tool for the demonstration and assessment of additionality (Version 5.2).
Tool to determine the remaining lifetime of equipment (Version 01.0.0)	
a) The tool may be used for project activities which involve the replacement of existing equipment with new equipment or which retrofit existing equipment as part of energy efficiency improvement activities.	The PD selected option C- 'Use default values' as stated in the tool. The value of 25 years for onshore wind turbines have been selected as stated in the 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)	
a) This tool provides a stepwise procedure to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period, as required by paragraph 49 (a) of the modalities and procedures of the clean development mechanism. The tool consists of two steps. The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period. The second step provides an approach to update the baseline in	A detailed assessment of the validity of the baseline scenario is shown in section B.4 of the PDD/01/ and in section B.5 of this report.

	case that the current baseline is not valid anymore for the next crediting period.	
Findings	No findings were raised.	
Conclusion	The project activity was found in accordance with the applied methodology ACM0002 "Grid-connected electricity generation from renewable sources" version 21.0/10/. The validation team confirms that: • The selected methodology/10/ for the GS project activity is applicable. • Each applicability condition listed in the applied methodology ACM0002 version 21.0/10/ has been addressed in the revised PDD/01/. • The methodology was found to be in accordance with the applicable requirements in the CDM PS for PA/48/ and GS principle & requirements/04/.	

D.4. Project boundary, sources and GHGs

Means of validation	As per para 22 of the applied methodology/10/, "The spatial extent of the project boundary includes the project power plant/unit and all power plants/units connected physically to the electricity system that the CDM project power plant is connected to." The project boundary includes 90 MW Wind Power Plant Project connected to the Turkish National Electricity Grid. The validation team conducted a desk review of the proposed project to confirm the appropriateness of the project boundary identified. It has been confirmed that the PD has included all the appropriate GHG emission sources that was required by the methodology in the final PDD/01/. It was assessed that no emission sources related to project activity will cause any deviation from the applicability of the methodology or accuracy of the emission reductions. A relevant block diagram has been used in section B.3 of the PDD to clearly depict the project boundary and found to be appropriate.
Findings	No findings were raised.
Conclusion	The project boundary is completely depicted in the PDD /01/ and is validated by the validation team. Also, according to the validation team the sources and gases that are accounted are found to be appropriate according to the project activity. As per the remote site visit assessment: • The project boundary is found to be in-line with the registered PDD /08/ and correctly reported in revised PDD /01/ • The sources, gases that are accounted are justified in context of the project activity.

D.5. Validation of baseline scenario

Means of validation	The project activity 'Aliağa Wind Farm' is an already registered project under GS. The current scope of assessment is the renewal of crediting period for the project activity. The total installed capacity of the project activity is 90 MW and project activity falls under large-scale project activity. The project employs approved CDM methodology ACM0002 v21.0/10/. As per para 15 of applied methodology, it has referred to Tool 11: Assessment of the validity of the original/ current baseline and update of baseline at the renewal of crediting period/32/. The tool is used to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period. The tool consists of two steps. The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period. The second step provides an approach to update the baseline in case that the current baseline is not valid anymore for the next crediting period. The project replaces energy generation from thermal power plants to energy generation from renewable source of energy. The electricity generated will be supplied to the Turkish national grid. As described in the revised PDD /01/, thermal power plants are the most used type in electrical energy production in Türkiye and produces carbon emission. The implementation of project activity is expected to reduce the carbon emission by 187,114 tCO_2e/ year. Through independent research and communicating with the local expert, VVB has concluded that the current baseline complies with all the mandatory national and sectoral policies/ Law. Some of the Laws that Project complies with are: 1. Electricity Market Law (Nr. 6446/30.03.2013) 2. Law on utilization of Renewable energy Resources for the purpose of generating electricity energy (Nr. 5346/18.05.2005) The assessment team ascertains that the PDD /01/ has established baseline scenario in line with the applied methodology /10/ and it is confirmed that PD has correctly validate the original/ current baseline scenario as per methodology tool/32/.
Findings	No findings were raised.
Conclusion	The validation team based on the description provide above with regard to the assessment of the requirements confirms that: (a) All the assumptions and data used by the PD are listed in the final PDD /01/ and, including their references and sources; (b) All documentation used is relevant for establishing the baseline scenario and correctly quoted and interpreted in the final PDD/01/; (c) Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence and can be deemed reasonable; (d) The approved baseline methodology has been correctly applied to identify the most plausible baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed CDM project activity.

	(e) Relevant national and/or sectoral policies and circumstances are considered in the project The validation team confirms that it has taken other steps and other sources of information used to cross-check the information contained in the final PDD /01/, wherever applicable, as listed above. The baseline re-assessment has been done in line with the applied methodology ACM0002/10/ and Tool 11: Assessment of the validity of the original/ current baseline and update of baseline at the renewal of crediting period /32/.

D.6. Demonstration of additionality

Means of validation	According to GS4GG Principles and Requirements version 1.2/04/, para 5.1.47 Design Certification Renewal follows the same process as Validation and Design Review (Design Certification) though the scope of assessment is limited to: (a) Changes in the Project as related to the General Eligibility Criteria (b) Incorporation of any relevant updates to the Gold Standard Requirements (c) Re-definition of Baseline Scenario and any impact of change on the Eligibility Principles, Criteria and Requirements (d) Any Gold Standard activity, product, and methodology-specific Requirements (e) Demonstration of Ongoing Financial Need, where relevant – see Ongoing Financial Need Therefore, additionality assessment is not performed for this project activity as the scope of the assessment is renewal of crediting period.
Findings	No findings were raised.
Conclusion	According to the GS4GG principles and requirements /04/, additionality of the project is not required to be reassessed at the time of renewal of the crediting period.

D.7. Ongoing Financial Need

Means of validation	Investment analysis was demonstrated during the first crediting period which showed that the project was not financially feasible without GS VER credit income. The first crediting period of the project activity as verified from the GS project webpage/35/ is from 09/04/2010 to 08/04/2017 and the second crediting period is from 09/04/2017 to 08/04/2024. According to the Ongoing financial analysis sheet (IRR sheet) provided, the IRR analysis was revaluated during the renewal of the second crediting period. The resulting IRR of 8.78% still fell below the benchmark value of 10.68%. The maintenance of the turbines which is carried out by Nordex and the system usage fees that needs to be paid to TEİAS, the increase in transmission fees, forestry fees and public expenses due to the high inflation has proved to be significant financial burden for the project activity for which the project heavily relies on GS revenue. The public expenses are annual and recurring like the interconnection fees which constitutes about 2.9% of the annual expenses and the Forestry fess which constitutes about 28% of the annual expenses. This was reviewed from the approved IRR

	sheet/50/ which was found to be acceptable by the VVB. Thus, as per para 4.1.52 of the GS Principles and Requirements/04/, the PD has justified both option (a) and option (b) which effectively justifies how the finance derived Gold Standard Certification is material to the ongoing sustainability of the Project. The generated carbon credit predominantly funds turbine maintenance, system usage fees, and loan obligations. This underscores the crucial role of carbon credit income in sustaining operations, supporting green energy initiatives, and meeting financial commitments essential for the project's continuity. The turbine maintenance invoices have been confirmed from the bills shared by PD /42/. When the IRR analysis was conducted, the price of carbon revenue was assumed to be 3.00 USD per tonne, however the actual price of carbon credit was lower than what was assumed which led to the PD not undergoing verification for the project between the period 01/01/2013 – 08/04/2017. This has led to a reduction in revenue for the project developer. Furthermore, the PD has provided the VVB with the loan agreement document and loan repayment schedule which shows that the loans are scheduled to be paid till March 2029 and the Hence the finance derived Gold Standard Certification help in loan repayment/55/. Hence the finance derived Gold Standard Certification is material to the ongoing sustainability of the Project and the explanation given by the PD was found to be acceptable with the VVB.
Findings	CAR#03 was raised and resolved successfully.
Conclusion	Ongoing financial need has been demonstrated in the revised PDD /01/. The validation team has confirmed from the GS project homepage/35/ and found correct.

D.8. Sustainable Development Goals targeted by the project activity

Means of validation

The SDG outcome assessment is as follows –

SDG Parameters to be monitored	SDG Target/ Indicator	SDG Impact	Assessment/Observations
SDG 7: Affordable and Clean Energy	7.2. By 2030, increase substantially the share of renewable energy in the global energy mix	Total renewable electricity produced	The project activity involves production of electricity though WPP and evacuate it to the Turkish national grid. This reduces consumption of fossil fuel-based power generation and thereby helps in increasing utilisation of renewable energy. The expected annual electricity generation from this project activity is 294,900 MWh/year. The validation team has reviewed the generation license /13/ and

				the ER sheet /3/ provided by the PD which confirms that the electricity generated from the 90MW is only considered. Although the total installed capacity of the project activity is 120 MW and since the Project did not undergo a design change procedure under GS, emission reduction claims will be conducted with the 90 MW registered capacity. The electricity generated from the 90 MW will be calculated using the SCADA system. The electricity generated from the registered capacity (90MW) is calculated by deduction the net electricity generation valued obtained from the SCADA system for the additional 30 MW (ten turbines) from the total generation values from the EPIAS recordings. The validation team confirms that SDG outcome has been addressed by the project activity in accordance with the applicable SDGs targets.
	SDG 8 Decent Work and Economic Growth	8.8: protect labor rights and promote safe and secure working environments of all workers, including migrant workers, particularly women migrants, and those in precarious employment	Total number of jobs and trainings	The project activity plans to provide employment to 22 employees and minimum 1 training per employee per year. Employment records/21/ and training records/20/ has been reviewed to confirm the number of employments hired and training imparted by the project. The validation team confirms that SDG outcome has been addressed by the project activity in accordance with the applicable SDGs targets.
	SDG: 13 Climate action		Amount of GHG emissions avoided or	The project activity involves production of electricity though WPP and evacuate it to the Turkish national grid.

			sequestered	This parameter is used to monitor the amount of GHG emission reduction annually. The expected emission reductions achieved from the project activity is 187,114 tCO_2e/year. The validation team confirms that SDG outcome has been addressed by the project activity is in accordance with the applicable SDGs targets.
Findings	No findings were raised.			
Conclusion	The validation team confirms that the SDG outcomes is undertaken by the project activity has been addressed in line with the applicable SDGs targets from the SDG Impact Tool/09/			

D.9. Estimation of emission reductions

Means of validation	The applied methodology ACM0002/10/ defines the methodology to calculate baseline emissions, project emissions and leakage emissions. The methodology refers to the latest version of TOOL07: Tool to calculate the emission factor for an electricity system/30/. As per para 62 of the applied methodology ACM0002/10/, the emission reductions are as calculated as: $ER_y = BE_y - PE_y - LE_y$ Where, ER_y = Emission reductions in year y (t CO_{2e}) BE_y = Baseline emissions in year y (t CO_{2e}) PE_y = Project emissions in year y (t CO_{2e}) LE_y = Leakage emissions in year y (t CO_{2e}) **Baseline Emissions** As per para 47 of the applied methodology ACM0002/10/, the baseline emissions are calculated as: $BE_y = EG_{PJ,y} * EF_{grid,CM,y}$ Where, BE_y = Baseline emissions in year y (t CO_2/yr) $EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr) $EF_{grid,CM,y}$ = Combined margin CO2 emission factor for grid connected power generation in year y calculated using the latest version of "TOOL07: Tool to calculate the emission factor for an electricity system"/30/ (t CO_2/MWh) **Project Emissions** As per para 35 of the applied methodology ACM0002/10/, "*For most*

	renewable energy power generation project activities, PEy = 0" and also as per para 37 of the applied methodology ACM0002/10/, "*For all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected*." Since, the project activity is WPP, no project emissions has been considered which is found to be acceptable. Hence, PE_y =0. **Leakage emissions** As per para 61 of the applied methodology ACM0002/10/, "*No other leakage emissions are considered. The emissions potentially arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, transport etc.) are neglected*" Hence, LE_y = 0. **Emission Reductions** As per the above, emission reductions are calculated as: $ER_y = BE_y$ $ER_y = EG_{PJ,y} * EF_{grid,CM,y}$ ER_y = 294,900 MWh * 0.6345 tCO_2e/MWh ER_y = 187,114 tCO_2e The emission reduction as calculated is 187,114 tCO_2e per year. The details of emission reduction calculation is discussed in the revised PDD /01/ and cross-checked from ER calculation sheet /03/. The validation team found calculation of all the particulars correct.
Findings	No findings were raised.
Conclusion	The validation team has cross checked the parameters and values related to the emission reduction and confirmed that justification of the mentioned values is correct.

D.10. Monitoring plan

Means of validation

The assessment of the ex-ante parameters can be found below. The selected parameters have been found in compliance with the requirements of the applied methodology ACM0002/10/,

Parameter fixed ex-ante:

S.No.	Relevant SDG Indicator	Parameter	Value in PDD	Assessment
1.	SDG 13	$EF_{grid,CM,y}$	0.6345 tCO_2e/ MWh	The value has been sourced from Türkiye National Network Emission Factor data sheet /18/ published by the ministry of Energy and Natural resources. The source

				of the value was found to be valid and correct and the value has been correctly applied in the ER calculation sheet/03/.

The operating margin, build margin and combined margin as per the Türkiye National Network Emission factor/18/ published by the ministry of Energy and Natural resources, which is a governmental entity of Türkiye are 0.7279 tCO_2/MWh, 0.3541 tCO_2/MWh and 0.6345 tCO_2/MWh. The calculation in the emission factor data sheet has been sourced from TOOL07: Tool to calculate the emission factor for an electricity system/30/. The source is found to be valid and correct. The ER sheet and PDD has been verified and PD has correctly applied the values as per the Türkiye National Network Emission factor/18/ and Tool to calculate the emission factor for an electricity system/30/.

Data and parameters to be monitored:

S.No.	Relevant SDG Indicator	Parameter	Monitoring Frequency	Assessment
1	SDG 7	$EG_{PJ,y}$ MWh/year	Continuous measurement and monthly recording	PD will monitor this parameter through electricity meters (main meter and spare meter) of accuracy class 0.2s which are owned, monitored and sealed by TEIAS. TEIAS will maintain and calibrate the electricity meters once in every 10 years, which has been verified from the relevant legal regulation/41/ and found acceptable. The project is expected to generate net electricity of 294,900 MWh annually. The validation team has reviewed the generation license /13/ and the ER sheet /3/ provided by the PD which confirms that the electricity generated from the 90MW is only considered. Although

					the total installed capacity of the project activity is 120 MW and since the Project did not undergo a design change procedure under GS, emission reduction claims will be conducted with the 90 MW registered capacity. The electricity generated from the 90 MW will be calculated using the SCADA system. The electricity generated from the registered capacity (90MW) is calculated by deduction the net electricity generation valued obtained from the SCADA system for the additional 30 MW (ten turbines) from the total generation values from the EPIAS recordings/29/.
	2	SDG 8	Quantitative employment and income generation	Each monitoring period	The PD has claimed that the company will provide job opportunities for at least 22 people employed by the project during the operation of the project activity. At the time of renewal of crediting period (Third crediting period), employment records of all 22 employees were verified through the Social Security System (SGK) records /21/, which is deemed acceptable.
	3	SDG 8	Quality of employment	Min. 1 Health and Safety training per	The PD has claimed that at there would be at least 1 Health and

			year per employee	Safety training per year per employee by the project during the operation of the project activity. At the time of renewal of crediting period (Third crediting period), Training records/20/ were verified and found to be acceptable. It is evident that PD has been conducting continuous training sessions for the employees.
4	SDG 13	ER_y, tCO_2/year	Annual	The monitoring parameter will be continuously monitored by means of on-site meters and calculated by means of applied methodology/10/. The project is expected to reduce 187,114 tCO_2e year. The ER calculation sheet/03/ was verified and found appropriate.

Principles to be monitored:

S.No.	Relevant Principle	Parameter	Monitoring Frequency	Assessment
1	Principle 3. Community Health, Safety and Working Conditions	Livelihood of the poor	Once during each MP.	The monitored parameter will be monitored once during each monitoring period by means of contributions to the poorest people in the vicinity of the project area. This was verified by the donation photos/51/ provided to the VVB which was found to be acceptable.
2	Principle 3. Community Health,	Public Health and	Every Monitoring	The PD claims to take precautions to protect public from any

		Safety and Working Conditions	Safety	Period	potential high voltage hazard. This is done by fencing around the turbines and the fences are grounded to avoid any third-party injury or accident related to high voltage. High voltage signs are placed to warn the public. This was verified through the site photos/22/ and during the remote site visit/37/.
	3	Principle 9.4 - Release of pollutants	Water quality and quantity	At least one wastewater disposal record in one monitoring period	The PD claims that the wastewater generated at the site will be collected in tanks and will be transported and disposed of by the local municipality. This was verified by the wastewater transfer records/52/ provided to be VVB and was found to be acceptable.
	4	Principle 9.4 - Release of pollutants	Solid Waste	a) Each monitoring period. b) At least one waste oil (gearbox oil waste, oil filters etc.) disposal record in a one monitoring period.	The PD claims that the solid and hazardous wastes (waste oils) are stored properly and are disposed of appropriately. This was verified from the site photos and from the waste oil disposal invoices/53/ which was found to be acceptable.
	5	Principle 9.4 - Release of pollutants	Noise Pollution	Only Once Each Monitoring Period during this Crediting Period	The PD claims that there is no negative impact of noise of the project activity to the local habitants. This was verified during the local stakeholder interviews during the remote audit/37/

					which was found to be acceptable.
	6.	Principle 9.10 High Conservation Value Areas and Critical Habitats	Biodiversity	Annually	The PD claims to monitor the bird strikes due to the turbines by appointing personnel to monitor the bird strikes and by interviewing the local stakeholders. This was verified through interviewing the personnel and the local stakeholders during the remote site visit/37/ and by reviewing the bird observation documents/43/.

The final PDD/01/ has been reviewed to check that the procedures for data uncertainty, emergency procedures, rules and responsibility, operational and management structure are mentioned in the final PDD/01/. The monitoring plan completely describes all measures to be implemented for monitoring all parameters required.

The verification team confirms that the parameters are sufficient to calculate the emission reduction in accordance with the applied methodology/10/ and are correctly reported in the final PDD/01/. The PD has also added sufficient parameters to monitor all the SDG Goals.

The monitoring plan has been described in the section B.7.1 of the PDD and has been verified by checking at the time of remote site visit.

Findings	CL#01 was raised and resolved.
Conclusion	The validation team confirms that: • The monitoring plan described in the section B.7 of the PDD/01/ takes into account all the relevant parameters prescribed in the applied monitoring methodology/10/. • The compliance of the monitoring plan has been checked against the applied methodology. • The monitoring plan also consider sufficient details about the monitoring parameters being monitored and takes enough measures for the correct estimation of the same.

D.11. Start date, crediting period and duration

Means of validation	The start date of project activity under the Gold Standard is 09/04/2010, which is the date of first commissioning of the wind turbines which has been verified from the commissioning certificate/16/ and start date of first crediting period being 09/04/2010 till 08/04/2017 and the duration of the project activity is 21 years with renewal after every 7 years. The start date of second crediting period was 09/04/2017. PD has identified start date of

	the third crediting period as 09/04/2024. The duration of third crediting period is 09/04/2024 – 08/04/2031.
Findings	No findings were raised.
Conclusion	The duration of the third crediting period is 7 years and start date of the third crediting period is 09/04/2024, which were found to be in accordance with the GS principles and requirements/04/.

D.12. Safeguarding principles and SDG outcome assessment

D.12.1. Safeguarding principles assessment

Means of validation	PD has outlined the assessment of safeguarding principles for the project activity as per the GS4GG safeguarding principles and requirements version 1.2/39/ to identify the potential risk and adverse outcome of project activity, to adopt a mitigation strategy, to avoid or where avoidance is not possible, minimise identified risks, with the intention to achieve the stated requirement. Assessment of safeguarding principles have been done and tabulated in the Appendix 5.
Findings	No findings were raised.
Conclusion	The validation team confirms that the SDG assessment is undertaken by the project activity. Mitigation measures required for identified risks have been taken into consideration and added to the monitoring plan of the project activity.

D.12.2. Gender sensitive assessment

Means of validation

Gender sensitive assessment has been done in compliance with GS4GG gender sensitive requirements and reported in Section D.2 of the PDD /36/.

Questions	**Answered by PD**	**Means of Validation**
Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?	Gold Standard Gender Policy (https://globalgoals.goldstandard.org/101-1-g-gold-standard-gender-policy/), p. 10 "Foundational gender-sensitive requirement - This strengthens Gold Standard's 'do no harm' approach and addresses safeguards to prevent or mitigate adverse impacts on women or men and girls and boys. Such action is mandatory for all projects seeking Gold Standard certification and includes compliance with the gender 'do no harm' safeguards, gender gap analysis and gender sensitive stakeholder consultations." The project is a renewable energy project and not gender sensitive project. The project does not impact women or men,	The project activity is a grid connected wind power plant, which is not a gender sensitive project. The project activity is found to be in compliance gender sensitive requirements/36/.

		negatively.	
	Question 2 - Explain how the project aligns with existing country policies, strategies and best practices	The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis. Türkiye signed the convention of International Labour Organization. The related articles are 100 and 111. The project owner respects Article 5/8425 of Labour Law; Which states no discrimination based on gender, race, religion, sexual orientation or any other basis is allowed.	The project activity is in compliance with ILO 100 and 111 and Article 5/8425 of Labour Law
	Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	No. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation, or any other basis.	The project activity is a grid connected wind power plant and does not require expert opinion for the gender safeguarding principles & requirements. The validation team confirms that project activity addressed requirement outlined in the para 2.2.1 of the GS4GG gender equality requirements & guidelines /36/.
	Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	No. At the Stakeholder Consultation, women are free to say anything regarding the project. Their opinions and comments are also taken into account while evaluating the project at the Stakeholder Consultation.	The project activity is a grid connected wind power plant and does not require expert to assist with gender issues at stakeholder consultation. The validation team confirms that project activity

			addressed requirement outlined in the para 2.3.1 of the GS4GG gender equality requirements & guidelines /36/.
Findings	No findings were raised.		
Conclusion	The validation team confirms that the gender sensitive requirements has been properly addressed in the PDD /01/.		

D.13. Local stakeholder consultation

D.13.1. Local stakeholder consultation conducted during validation

Means of validation	A Local Stakeholder Consultation Meetings in line with Gold Standard Requirements were held on 07/11/2008 as Initial Stakeholder Consultation. The stakeholder feedback round was held from February 2009 till April 2009, to develop the Project as a Gold Standard VER project. Attendance sheet photographs/26,27/ of the LSC were also checked to confirm the activity. During the meeting detailed information of the project was given to attendees and comments of the stakeholder were addressed. The Stakeholder Feedback Round was held from February 2009 till April 2009. The participants were provided information about the Project's ongoing activities and allowed to provide their comments. The comments from the participants were positive for Aliağa WPP. Furthermore, Project Documents and Feedback forms were enabled for the stakeholders to access from February 2009 till April 2009, and within this period, no comments were received. The evaluation forms included in LSC report filled by the stakeholders were received and it was found that few minor comments were raised by the local stakeholder. No further meeting has been conducted for the CP renewal. A stakeholder feedback round was held between 11/01/2022 and 11/03/2022, and within this period, no comments were received. However, the assessment team has interviewed the stakeholders during the remote audit to confirm that there are no negative feedback from project activity during the third crediting period. During the remote audit/37/ conducted on 10/01/2024, interviews were conducted with local residents regarding the project. Attendees included villagers from Atçılar Village. They were reminded of the grievance procedure and asked if they had any concerns. Everyone expressed positive views about the project, and they were aware that there was a grievance logbook available for them to register any complaints. During the remote audit, the interviewees were identified by requesting them to produce their ID cards to confirm if they are from the nearby Atçılar Village. The verification confirmed the lack of negative feedback on project activities throughout the subsequent crediting period.
Findings	No findings were raised.
Conclusion	Stakeholder consultation report has been reviewed and the validation team confirm that

	• Local stakeholder consultation meeting has been conducted by PD, and • Grievance mechanism has been included to address grievances related to the project and contact details.

D.13.2 Grievance mechanism for continuous input

Means of validation	PP has provision of continuous grievance mechanism. PP has decided to collect the complaints through the means listed below:

Method	Include all details of Chosen Method (s) so that they may be understood and, where relevant, used by readers.
Continuous Input / Grievance Expression Process Book (mandatory)	A Continuous Input Process Book was provided to Mukhtar of Atcılar village. Mukhtar is the representative of the village and the most appropriate person to handle the book and complaints from the village.
GS contact (mandatory)	All project information regarding the Project will be on the website of Bilgin Enerji enabling stakeholders to reach and comment. Other than the mukhtar, the locals can directly call or reach (go to his office) Mr Yakup Okçu regarding the problems related to the project activity. Mehmet Toker is the responsible person from the project activity who is constantly on site.
Other	Yakup Okçu E-Mail: yakup.okcu@bilgin.com.tr Phone: +232 646 30 10

Findings	No findings were raised.
Conclusion	The validation team confirm that grievance mechanism for continuous input has been included to address grievances related to the project.

SECTION E. Internal quality control

The draft validation report for renewal of crediting period prepared by the validation team was reviewed by an independent technical review team to confirm if the internal procedures established and implemented by ESPL were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable GS rules/requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team were independent of the validation team.

The technical review process may accept or reject the validation opinion or raise additional findings in which case these must be resolved before requesting for registration. The technical review process is recorded in the internal documents of ESPL and the additional findings gets included in the report.

The final report approved by the technical reviewer is authorized by Managing Director and issued to the PD and/or submitted for request for registration, as appropriate on behalf of ESPL.

SECTION F. Validation opinion

The validation of "Aliağa Wind Farm" with GSID- GS 735 for renewal of crediting period was performed based on rules and requirements defined by GS4GG Principles and Requirements and UNFCCC for the CDM program of activities. The purpose of this project activity is to generate electricity from wind power plant and supply it to Turkish national grid. It is demonstrated that the project is not a likely baseline scenario and the emission reductions attributable to the project are, hence, additional to any that would occur in the absence of the GS PA. The project correctly applies the approved baseline and monitoring methodology ACM0002 "Grid connected electricity generation from renewable sources", version 21.0/10/ and is assessed against latest valid GS4GG Principles and Requirements/04/, CDM PS for PA/48/ and VVS for PA/07/ and/or other applicable GS Decisions/Tools/Guidance/Forms.

The GS project activity is likely to achieve the anticipated emission reductions stated in the PDD provided the underlying assumptions do not change.

ESPL has informed the project participants of the validation outcome through the draft validation report and final validation report. In case of negative validation outcome, the final validation report is only submitted to PD. The final validation report contains the information regarding fulfilment of the requirements for validation, as appropriate.

ESPL applied the following validation process and methodology using a competent validation team.

- the desk review of documents and evidences submitted by the project participant in context of the reference GS principles and requirements,
- conducting interview, or interactions with the representative of the project participant,
- reporting audit findings with respect to clarifications and non-conformities and the closure of the findings, as appropriate and
- preparing a draft validation opinion based on the auditing findings and conclusions
- technical review of the draft validation opinion along with other documents as appropriate by an independent competent technical review team
- finalization of the validation opinion (this report)

The review of the PDD, supporting documentation and subsequent follow-up actions have provided ESPL with sufficient evidence to determine the fulfilment of stated criteria. ESPL believes the project activity "Aliağa Wind Farm" as described in the revised PDD /01/ does meet the stated criteria of GS, meets host country criteria and has correctly applied the methodology ACM0002 "Grid connected electricity generation from renewable sources", version 21.0/10/. Therefore, the project is being recommended to GS4GG for request for renewal of crediting period. The total estimated annual average emission reduction for this crediting period is 187,114 GS-VERs.

Appendix 1. Abbreviations

Abbreviations	Full texts
General	
ACM	Approved Consolidated Methodology
AM	Approved Methodology
BE	Baseline Emission
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CH4	Methane
CL	Clarification Request
CO_2	Carbon di oxide
CP	Crediting Period
DNA	Designated National Authority
DR	Desk Review
DOE	Designated Operational Entity
EB	Executive Board
ESPL	Earthood Services Private Limited
FAR	Forward Action Request
GHG	Green House Gas
GSC/GSP	Global Stakeholder Consultation Process
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
LoA	Letter of Approval/Authorization
LSC	Local Stakeholder Consultation Process
MoC	Modalities of Communication
MoV	Means of Validation
MP	Monitoring Plan
ODA	Official Development Assistance
OM	Operating Margin
PA	Project Activity
PCP	Project Cycle Procedure
PD	Project Developer
PDD	Project Design Document
PE	Project Emission
PP	Project Participant
PS	Project Standard
RCP	Renewal of Crediting Period
RFR	Request for Registration
tCO_2e	tonnes of Carbon di Oxide equivalent
TPH	Tonnes Per Hour
UNFCCC	United Nations Framework Convention on Climate Change
V	Version
VVS	Validation and Verification Standard
VVB	Validation and Verification Body
Project Specific	

ODA	Official Development Assistance
WPP	Wind Power Plant
LSC	Local Stakeholder Consultation
SDG	Sustainable Development Goals
TEAIS	Turkish Electricity Transmission Corporation

Appendix 2. Competence of team members and technical reviewers

Competence Statement			
Name	Jinesh Amlani		
Education	M.Sc. Energy Systems B.Sc. Physics		
Experience	8+ years		
Field	Climate Change & Environment		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	NO		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	YES (TA 1.2)		
Reviewed by	Shifali Guleria (Quality Manager)	**Date**	21/04/2023
Approved by	Deepika Mahala (Technical Manager)	**Date**	24/04/2023

Competence Statement			
Name	Kubra Agriman		
Education	BS Environmental Engineering		
Experience	2 years		
Field	Environmental Engineering		
Approved Roles			
Team Leader	NO		
Validator	NO		
Verifier	NO		
Methodology Expert	NO		
Local expert	Yes (Turkey)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	NO		
Trainee	Yes		
Reviewed by	Shifali Guleria, Quality Manager	**Date**	27/12/2022
Approved by	Deepika Mahala, Technical Manager	**Date**	27/12/2022

Competence Statement			
Name	Kerwyn Donald Dsouza		
Education	B. E- Environmental Engineering M. Tech- Renewable Energy Engineering and Management		
Experience	7 Years		
Field	Renewable Energy, Climate Change, Environment		
Approved Roles			
Team Leader	NO		
Validator	YES		
Verifier	YES		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	YES (TA 1.2)		
Reviewed by	Shifali Guleria (Quality Manager)	**Date**	18/01/2024
Approved by	Deepika Mahala (Technical Manager)	**Date**	18/01/2024

Competence Statement			
Name	Sukanya Phukan		
Education	M.Sc (Environmental Science and Technology) B.Sc (Zoology)		
Experience	1+ year		
Field	Environment Science		
Approved Roles			
Team Leader	YES (VM only)		
Validator	YES (VM only)		
Verifier	YES (VM only)		
Local expert	NO		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	YES (VM TA 1.2, 3.1)		
Reviewed by	Shifali Guleria (Quality Manager)	**Date**	23/06/2023
Approved by	Deepika Mahala (Technical Manager)	**Date**	23/06/2023

Competence Statement	
Name	Divij Varshney

Education	M.Tech. Renewable energy systems B.Tech. Electrical Engineering		
Experience	1.5 years		
Field	Climate Change & Environment / Industry		
Approved Roles			
Team Leader	Yes (VM)		
Validator	Yes (VM)		
Verifier	Yes (VM)		
Local expert	Yes (India)		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert (X.X)	Yes (VM TA 1.2, 3.1)		
Reviewed by	Shifali Guleria, Quality Manager	**Date**	18/09/2023
Approved by	Deepika Mahala, Technical Manager	**Date**	18/09/2023

Competence Statement			
Name	Shifali Guleria		
Education	M.Sc. (Environmental Studies and Resource Management), TERI University		
Experience	3+ year		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	YES (AMS-I.A., AMS-II.G., AMS-II.E., AMS-III.A.V., AMS-I.D, ACM0002)		
Local expert	YES		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (1.2, 3.1)		
Reviewed by	Deepika Mahala	**Date**	18/02/2022
Approved by	Ashok Gautam	**Date**	18/02/2022

Appendix 3. Documents reviewed or referred

No.	Title	References to the document	Provider
1.	Final PDD	Version 9.0, Dated 16/12/2024	PD
2.	Initial PDD	Version 1.0 dated 27/11/2023	PD
3.	Ex-ante ER Calculation sheet	Pertaining to latest PDD	PD
4	Principle & Requirements	Version 1.2	Others
5	Validation & Verification Body Requirements	Version 2.0	Others
6	GS Validation and Verification Standard	Version 1.0	Others
7	CDM VVS for PA	Version 3.0	Others
8	GS registered PDD (Second Crediting Period)	Version 6.0, dated 09/03/2023	Others
9	SDG Impact tool	-	Others
10	ACM0002 "Grid connected electricity generation from renewable sources"	Version 21.0	Others
11	GS4GG Key Project Information & Project Design Document Template	Version 1.5	Others
12	GS4GG Key Project Information & Project Design Document Template Guidelines	Version 1.3	Others
13	Generation license Revised Generation license	17/07/2008 13/03/2013	PD
14	EIA Exemption	29/11/2007, 26/08/2013	PD
15	Site Visit and Remote Audit Requirements and Procedures	Version 1.0	Others
16	Commissioning Certificates	09/04/2010,16/06/2010, 01/07/2016, 12/08/2016, 02/09/2016	PD
17	Renewable Energy Activity Requirements	Version 1.4	Others
18	Türkiye National Electric Grid Emission Factor	18/03/2024	PD
19	GPS Coordinates of Turbines	-	Others
20	Training Records	-	PD
21	Employment records (SGK records)	-	PD
22	Photos of equipment's, meters and site	-	PD
23	Double counting declaration	05/07/2024	PD
24	GS Passport	-	Others
25	No ODA Declaration	20/05/2024	PD
26	LSC Photographs	-	Others
27	LSC Attendance	-	Others

28	Policy on Equal rights at work	-	PD
29	EPIAS/ PMUM Records	-	PD
30	TOOL07 - Tool to calculate the emission factor for an electricity system	Version 7.0	Others
31	TOOL10 - Tool to determine the remaining lifetime of equipment	Version 1.0	Others
32	TOOL11-Assessment of the validity of the original/ current baseline and update of the baseline at the renewal of the crediting period	version 3.0.1	Others
33	TOOL01 - Tool for the demonstration and assessment of additionality	version 7.0.0	Others
34	Turkish production capacity projection report	May 2021	Others
35	GS Project Webpage- https://registry.goldstandard.org/projects/details/1167 GS ID: GS735	-	Others
36	GS4GG gender sensitive requirements	Version 1.1	Others
37	Remote Site Visit	10/01/2024	Others
38	Local Stakeholders Meeting	-	Others
39	GS4GG safeguarding principles and requirements	Version 1.2	Others
40	Grievance Book	-	PD
41	Electricity, Water and Gas Meters Inspection Regulation	-	Others
42	Turbine maintenance invoices	-	PD
43	Bird Observation Documents	-	PD
44	European Convention for the Protection of Human Rights – Article 10	-	Others
45	GS4GG Safeguarding principles and requirement	Version 2.1 dated 29/06/2023	Others
46	ILO Conventions http://www.ilo.org/ankara/conventions-ratified-by-turkey/lang--tr/index.htm	-	Others
47	International Legal obligation article 10 http://www.istanbul.gov.tr/?pid=9218	-	Others
48	CDM PS for PA	Version 3.0	Others
49	Annual development of installed capacity and generation in turkey- https://webim.teias.gov.tr/file/d13a5b57-a874-47f1-a025-	-	Others

	5df977cd24e5?download		
50	Ongoing Financial Sheet (IRR sheet)	-	PD
51	Donation Statement photos	-	PD
52	Wastewater transfer invoices	-	PD
53	Waste oil disposal invoices	-	PD
54	Electricity Meter Calibration Certificates	11/10/2019, 22/10/2019, 25/07/2021, 05/11/2023	PD
55	Loan Repayment Document	-	PD

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

TABLE 1. FAR FROM PREVIOUS VALIDATION/VERIFICATION

FAR ID		**Section no.**		**Date :** DD/MM/YYYY
Description of CL				
NA				
Project participant response				**Date :** DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				**Date:** DD/MM/YYYY
NA				
Project participant response				**Date :** DD/MM/YYYY
NA				

TABLE 2. CL FROM THIS VALIDATION

CL ID	01	**Section no.**	B.7.1	**Date :** 14/02/2024
Description of CL				
1) In section B.7.1, for the parameter **$EG_{PJ,y}$** , under "Measurement methods and procedures", PD is kindly requested to clarify on how deducting the net electricity generation values from the SCADA system from the total generation data from the EPIAS records is accurate and conservative as the SCADA system would not consider any transmission losses. 2) In section B.7.1, for the parameter **$EG_{PJ,y}$** , under "QA/QC Procedures", it is stated that "periodic calibration of the meters will be done every 10 years". However, during the remote site audit, it was found out that the calibration of the electricity meters is carried out once in five years and the meters needed to be replaced once in ten years. PD is requested to clarify if there is a change or update in the rules and regulations regarding the periodic calibration of the electricity meters.				
Project participant response				**Date :** 19/02/2024

1- We have been carrying out Aliağa WPP verification, as well. In that report, the calculation has been made from SCADA datas which Gold Standard stated. *2- Not in five years, it should be 10 years. I think it was a misunderstanding. Regarding that, the regulation was changed on 23/11/2023. Related changes have been made. Annex-I has been shared and related statement is highlighted.*
Documentation provided by project participant
DOE assessment **Date:** 04/03/2024
1) The VVB is satisfied with the explanation provided by the PD as the method for calculating the net electricity generation has been validated and has been accepted by Gold Standard. The validation team has verified that the same method of calculating the electricity generated from the registered capacity has been mentioned and accepted in the registered GS PDD of the second crediting period. **Hence, this finding is closed.** **2)** The PD has clarified that the calibration frequency of the electricity meters is once in 10 years as stated in Annex-1 Section A of the "Electricity, Water and Gas Meters Inspection Regulation". The VVB is satisfied with the explanation provided by the PD. **Hence, this finding is closed.** **Hence, CL#01 is closed.**

TABLE 3. CAR FROM THIS VALIDATION

CAR ID	01	**Section no.**	A.2	**Date :** 14/02/2024
Description of CAR				
1) The validation team is unable to verify the geographic location of the project activity provided in section A.2 of the PDD. PD is requested to clarify in which format the geographical coordinates are provided in the table. 2) PD is requested to check all the latitude and longitude mentioned in this table. Latitude donates the North or South position and longitude donates the Easte or West position				
Project participant response				**Date :** 19/02/2024
1- These coordinates are taken from Generation License. According to regulation, coordinates must be represented as 'Universal Transversal Mercator' and ED-50 Datum. They have been changed as 'degree, minutes, seconds. *2- It has been corrected and identified as East and North.*				
Documentation provided by project participant				
DOE assessment				**Date:** 04/03/2024
1) The PD has replaced the geographical coordinates of the wind turbines to 'degree, minutes, seconds' format. The geographical coordinates are found to be accurately mentioned in section A.2 of the PDD. **Hence, this finding is closed.** 2) The PD has updated table 3 of the PDD. The latitude and longitude coordinates of the wind turbines are found to be accurately mentioned in section A.2 of the PDD. **Hence, this finding is closed.** **Hence, CAR #01 is closed**				

CAR ID	02	**Section no.**	A.3	**Date :** 14/02/2024

Description of CAR	
In section A.3 of the PDD, according to the link provided, the value 39,791 MW as reported by the Renewable Energy General Directorate, is the total installed capacity of all renewable sources as on 31 March 2018. This is not the value of onshore wind potential for Turkey. PD is requested to review the paragraph.	
Project participant response	**Date :** 19/02/2024
It has been revised according to the document.	
Documentation provided by project participant	
DOE assessment	**Date:** 04/03/2024
The PD has revised section A.3 of the PDD. However, the value 6,609 MW is still incorrect. On page 108 of the document provided. It is mentioned that according to REPA, "the wind potential is 47,849.44 MW. PD is kindly requested to access and review. This finding is open.	
Project participant response	**Date :** 06/03/2024
It has not been noticed. Thus, the value has been corrected as 47,849.44 MW.	
Documentation provided by project participant	
DOE assessment	**Date:** 13/03/2024
The PD has revised section A.3 of the PDD and the value entered is now consistent with the reference document provided. **Hence, CAR# 02 is closed**	

CAR ID	03	**Section no.**	B.5.2	**Date :** 04/03/2024
Description of CAR				
In accordance GS Principles & Requirement, V1.2, in section 4.1.52, 'Ongoing Financial Need shall be demonstrated at Design Certification Renewal. The project shall provide a qualitative narrative, supported by an overview of project finances, that demonstrates how the finance derived Gold Standard Certification is material to the ongoing sustainability of the Project.' PP shall demonstrate ongoing financial needs for the third crediting period in section B.5.2 of the PDD.				
Project participant response				**Date :** 13/03/2024
Nordex payments and on-going payment for loan of Aliağa has been shared.				
Documentation provided by project participant				
DOE assessment				**Date:** 13/03/2024
The VVB has reviewed section B.5.2 of the PDD and confirms that the project owner relies on carbon credit revenue to offset rising operational costs for a plant and loan payments. The IRR sheet shows that the IRR of the project activity still stays below the project activity's benchmark value. The justification provided is found to be appropriate. **Hence, CAR# 03 is closed.**				

TABLE 3. FAR FROM THIS VALIDATION

FAR ID		**Section No.**		**Date :** DD/MM/YYYY
Description of FAR				
NA				
Project participant response				**Date :** DD/MM/YYYY

NA	
Documentation provided by project participant	
NA	
DOE assessment	**Date:** DD/MM/YYYY
NA	

Appendix 5. Safeguarding Principles Assessment

Assessment Questions/ Requirements	Justification of Relevance (Yes/potentially/no)	How is the project meeting the applicable requirements if the project impacts or can potentially impact the project activity.	Means of validation
Principle 1. Human Rights			
P.1.1.1 a) Does the project developer, its representatives and the Project disrespect internationally proclaimed human rights? b) Is the project involved or complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights? P.1.1.2 Have local communities or individuals raised human rights concerns regarding the project (e.g., during the stakeholder engagement process, grievance processes, public statements)? P.1.1.3 a) Is there a risk that rights-holders (e.g., Project-	P.1.1.1 a) No b) No P,1,1,2 No P.1.1.3 a) No b) No	The project does not involve any conflict with the livelihood of local people and respects all human rights. Turkey, the host country, prohibits discrimination on the basis of a person's race, sex, religion, place of birth, or social status. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation, or any other basis. Turkey is a party to the Universal Declaration of Human Rights, therefore does not violate these rights and it's not a matter of discussion for Turkey. Therefore, the project developer and the project do respect nationally and internationally proclaimed human rights and is not complicit in violence or human rights abuses of any kind. The project respects internationally proclaimed human rights including dignity, cultural property.	The project activity does not cause human rights abuses and is a party to the Universal Declaration of Human Rights /44/ Thus, no mitigation measure is required. The validation team confirms that project fulfils the GS certification requirement outlined in the para 1.1.1, 1.1.2 and 1.1.3 of the GS4GG safeguarding principles requirements version 2.1/45/.

affected stakeholders) do not have the capacity to claim their rights? b) Does this project undermine national or regional measures for the realisation of the right to development?			
Would the project potentially involve or lead to: P.1.1.1 adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population and particularly of marginalised groups? P.1.1.2 inequitable or discriminatory impacts on affected populations, particularly people living in poverty or marginalised or excluded individuals or groups, including persons with disabilities? P.1.1.3 a) inequitable or discriminatory impacts on affected populations, particularly people	P.1.1.1 No P.1.1.2 No P.1.1.3 a) No b) No		

living in poverty or marginalised or excluded individuals or groups, including persons with disabilities? b) exacerbation of conflicts among and/or the risk of violence to project-affected communities and individuals?			
Principle 2. Gender Equality and Women Empowerment			
P.2.1.1 Have women's groups/leaders raised gender equality concerns regarding the project, (e.g., during the stakeholder engagement process, grievance processes, public statements)? P.2.1.2 Does the project undermine the principles of non-discrimination, equal treatment, and equal pay for equal work? b) Does the project prevent men and women from having equal opportunities to participate in identified tasks and activities, whether through paid work, volunteer work, or community contributions, as appropriate?	P.2.1.1 No P.2.1.2 a) No b) No c) No d) No P.2.1.3 No P.2.1.4 No	1. The project does not adversely affect men and women in marginalized or vulnerable communities because it creates stable jobs and incomes for local men and women. The project does not reduce or put at risk women's access to or control of resources, entitlements and benefits because the project owner comply with the Labor Code. In the main office of the project owner company there are women employees as well. Therefore, Project contributes to recognition of women rights implicitly. Turkey is also party to Convention on Discrimination since 1967 to prevent any form of discrimination; http://ua.mfa.gov.tr/files.ashx?872 2. The project owner complies with regulations of Turkey's law. Therefore, the project will not discriminate with regards to participation. Men and women are paid equally for work of equal value.	The project activity does not involve any form of discrimination based on gender and is obliged to the ILO convention 100 and 111 /46,47/. The validation team confirms that project fulfils the GS certification requirement outlined in the para 2.1.1, 2.1.2, 2.1.3, and 2.1.4 of the GS4GG safeguarding principles requirements version 2.1 /45/.

c) Does the project limit the participation of women or men based on pregnancy, maternity/paternity leave, or marital status? d) Is information about project objectives being communicated in a way that is inappropriate for the local context and not tailored to the methods of understanding of both women and men, which could hinder their participation? P.2.1.3 Has the project assessed gender risks without referencing the country's gender strategy or equivalent national commitment? P.2.1.4 Has expert stakeholder(s) been involved, and has their input been requested for the project design on gender equality and women's empowerment?		3. Turkey has ratified ILO convention 100, 111, 122 and 142, which provides gender equality and promotes women's employment http://www.ilo.org/ankara/areas-of-work/equality-discrimination/lang--tr/index.htm	
Would the project potentially involve or lead to: P.2.1.1 a)	P.2.1.1 a) No b) No		

adverse impacts on gender equality and/or the situation of women and girls? b) exacerbation of risks of gender-based violence? For example, through the influx of workers to a community, changes in community and household power dynamics, increased exposure to unsafe public places and/or transport, etc. P.2.1.2 a) reproducing discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits? b) limitations on women's ability to use, develop and protect natural resources, taking into account different roles and positions of women and men in accessing environmental goods and services? For example, activities that could lead to natural resources degradation or depletion in communities who depend on these resources for their livelihoods and well-	P.2.1.2 a) No b) No		

being.			
Principle 3. Community Health, Safety and Working Conditions			
P.3.1.1 Does the project involve potential risks to the health and safety of affected communities during its life cycle? P.3.1.2 Does the project involve any potential risks to the workers' safety and health?	P.3.1.1 No P.3.1.2 No	The project leads to safe working condition and improvement in health as it will replace coal as fuel with wind which is clean and safe. Further, periodic Health and safety trainings are being implemented for all employees to ensure prevention of any unsafe working condition. Turkey has ratified ILO convention 155 and about work safety and precautions. https://www.ilo.org/global/standards/subjects-covered-by-international-labour-standards/occupational-safety-and-health/WCMS_356966/lang--en/index.htm.	The project utilizes renewable energy sources and employs technology that poses minimal health risks and noise disruption. With a noise level of 30.6 dBA from the nearest village, well below the 70 dBA legal limit, and a distant settlement beyond 3 kilometers, community impact is negligible. Stringent safety measures ensure worker well-being, supported by emergency training. The project's strict adherence to national laws and regulations reflects its commitment to responsible operations. This holistic approach underscores its contribution to sustainable energy while upholding health, safety, and legal standards. The validation team confirms that project fulfils the GS certification requirement outlined in the para 3.1.1 to 3.1.4 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project potentially involve or lead to: P.3.1.1 construction and/or infrastructure development (e.g., roads, buildings, dams)? P.3.1.2 a) air pollution, noise, vibration, traffic, injuries, physical hazards, poor surface water quality due to runoff, erosion, sanitation? b) harm or losses due to failure of structural elements of the project (e.g., collapse of buildings or infrastructure)? c) risks of water-borne or other vector-borne diseases (e.g., temporary breeding habitats), communicable and noncommunicable	P.3.1.1 No P.3.1.2 a) No b) No c) No d) No e) No		

diseases, nutritional disorders, mental health? d) transport, storage, and use and/or disposal of hazardous or dangerous materials (e.g., explosives, fuel and other chemicals during construction and operation)? e) adverse impacts on ecosystems and ecosystem services relevant to communities' health (e.g., food, surface water purification, natural buffers from flooding)?			
Principle 4 Cultural heritage,indigenous people, displacement and resettlement			
Principle 4.1 Sites of Cultural and Historical Heritage			
P.4.1.1 Does the project involve altering, damaging, or removing sites, objects, or structures of significant cultural heritage?	P.4.1.1 No	According to the approved exemption of environmental impact assessment, the project area does not include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture.	The project activity involves generation of electricity from Wind power. Therefore, it does not involve or to be complicit in the alteration, damage or removal of any sites, objects or structures of significant cultural heritage. The project activity does not propose any kind of utilization of cultural heritage including the knowledge, innovations, or practices of local communities. The validation team confirms that project activity fulfils the GS
Would the project potentially involve or lead to: P.4.1.1 a) activities adjacent to or within a cultural heritage site? b) significant excavations, demolitions, movement of earth, flooding or other environmental changes?	P.4.1.1 a) No b) No c) No d) No P.4.1.2 a) No b) N/A P.4.1.3 N/A P.4.1.4		

c) alterations to landscapes and natural features with cultural significance? d) adverse impacts to sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, practices)? (Note: projects intended to protect and conserve Cultural Heritage may also have inadvertent adverse impacts) P.4.1.2 a) utilization of tangible and/or intangible forms (e.g., practices, traditional knoeledge) of cultural heritage for commertial or other purposes? b) If answer to question above is "YES" or "POTENTIALLY" - are the communities made aware of their right under the law, scope and nature of proposed development and its potential consequences? P.4.1.3 If answer to question above is "YES" - does the project provide equitable sharing of benefits from commercialisation of such knowledge,	a) N/A b) N/A		certification requirement outlined in the para 4.1.1 to para 4.1.4 of the GS4GG safeguarding principles requirements version 2.1 /45/.

innovation, or practice, consistent with their customs and traditions? P.4.1.4 a) If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design? b) If answer to question above is "YES", has project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?			
Principle 4.2 Forced Eviction and Displacement			
P.4.2.1 Does the project involve any risks related to involuntary relocation of people?	P.4.2.1 No	For the project activity, no resettlement is required.	This project involves generation of electricity from Wind power and does not involve any kind of relocation of people. The validation team confirms that project activity fulfils the GS certification requirement outlined in the para 4.2.1 to 4.2.3 of the GS4GG safeguarding principles requirements version 2.1/45/.
Would the project potentially involve or lead to: **P.4.2.1** a) risk of forced evictions or involuntary relocation of people? **P.4.2.2 a)** temporary or permanent and full or partial physical displacement (including people without legally recognisable	P.4.2.1 No P.4.2.2 a) No b) No c) N/A P.4.2.3 a) No b) No		

claims to land)? **b)**economic displacement (e.g., loss of assets or access to resources due to land acquisition or access restrictions – even in the absence of physical relocation)? c) If answer to question above is "YES" or "POTENTIALLY", - has the project developed Resettlement Action Plan or Livelihood Action Plan in consultation and agreement with affected individual, group or community? - has the project integrated Resettlement Action Plan or Livelihood Action Plan into the Project design? **P.4.2.3 a)** If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design? **b)** If answer to question above is "YES", have project design been changed,			

modified, updated considering opinions and recommendations of an Expert Stakeholder?			
Principle 4.3 Land Tenure and Other Rights			
P.4.3.1 Does the project involve any risks related to identifying and managing legitimate tenure rights that may be affected by the project?	P.4.3.1 No	There is no need for expropriation. Land acquisition was done according to the Turkish Expropriation Laws and Regulations.	It does not require to change to land tenure arrangements and/or other rights. Further, the PD has kept a continuous input process book was provided to Muhtar of Atçılar village for the villagers to file any complaints or feedbacks regarding the project. The validation team confirms that project activity fulfils the GS certification requirement outlined in the para 4.3.1 to 4.3.5 of the GS4GG safeguarding principles requirements version 2.1/45/.
Would the project potentially involve or lead to: P.4.3.1 a) impacts on or changes to land tenure arrangements and/or community-based property rights/customary rights to land, territories and/or resources? b) uncertainties with regards to land tenure, access rights, usage rights or land ownership? Examples include, but are not limited to water access rights, community-based property rights and customary rights. P.4.3.2 a) Changes in legal arrangements, if yes, are the changes done in line with relevant laws and	P.4.3.1 a) No b) No P.4.3.2 No P.4.3.2 a) N/A b) N/A P.4.3.3 No P.4.3.4 a) N/A b) N/A P.4.3.5 Yes		

regulations? b) Changes in legal arrangements, if yes, are these changes agree with free, prior and informed consent of the involved stakeholders? P.4.3.3 Does some other entity (other than the project developer) hold uncontested land title for the entire Project Boundary? P.4.3.4 a) Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design? b) If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder? P.4.3.5 Have project developer in consultation with stakeholders established a functioning mechanism to receive, process, resolve, communicate and record grievances?			
Principle 4.4 Indigenous people			
P.4.4.1 Does the project involve Indigenous People within the Project	P.4.4.1 No	Not Applicable	The project does not impact the indigenous people in the project area, land

area of influence who may be affected directly or indirectly by the Project?			territory owned by the indigenous people. The validation team confirms that project activity fulfils the GS certification requirement outlined in the para 4.4.1 to 4.4.9 of the GS4GG safeguarding principles requirements version 2.1/45/.
Would the project potentially involve or lead to: P.4.4.2 affect areas where indigenous peoples are present (including project area of influence) b) affect areas, land and territory claimed by indigenous peoples? c) impacts (positive or negative) to the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples? P.4.4.3 If answer to above questions is ''YES'' or "POTENTIALLY", - Is it determined that the proposed project may affect the rights, lands, resources, or territories of indigenous people? - Has an "Indigenous People Plan" (IPP) or "Indigenous People Plan Framework" been elaborated and included in the project documentation? - Was the plan	P.4.4.2 a) No b) No c) No P.4.4.3 N/A P.4.4.4 No P.4.4.5 N/A P.4.4.8 a) N/A b) N/A P.4.4.9 a) N/A b) N/A		

developed in accordance with the effective and meaningful participation of indigenous peoples and in accordance with UNDP Guidelines? P.4.4.4 - risk of forcibly removing indigenous people from their lands and territories? - utilisation and/or commercial development of natural resources on lands and territories claimed by indigenous peoples? Consider, and where appropriate ensure, consistency with the answers under Principle 4.1 above If answer to question above is "YES" or "POTENTIALLY" Did the project obtain free, prior and informed consent from indigenous people before taking their cultural, intellectual, religious, and/or spiritual property? - Does the project ensure that the indigenous people receive an equitable sharing of benefits resulting from the use of their traditional knowledge and practices?			

- Does the project ensure that the sharing of benefits resulting from the use of indigenous peoples' traditional knowledge and practices is culturally appropriate and inclusive? - Does the project ensure that the provision of equitable sharing of benefits does not impede land rights or equal access to basic services including health services, clean water, energy, education, safe and decent working conditions, and housing? P.4.4.5 . P.4.4.6 . P.4.4.7 a) Does the project lack appropriate feedback and grievance channels for Indigenous Peoples and their representatives? b) Has a grievance mechanism not been established at the beginning of programme or project implementation with due consideration given to customary dispute settlement mechanisms among the Indigenous Peoples concerned and will it remain operational			

throughout the project cycle? P.4.4.8 a) Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design? b) If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?			
Principle 5. Corruption			
P.5.1.1 a) Does the project involve, or is it complicit in, contributing to or reinforcing corruption or corrupt projects? b) Does the project have a risk of encouraging bribery, kickbacks, or other unethical behavior?	P.5.1.1 a) No b) No	The Project does not involve any kind of corruption. Turkey is a party to United Nation Convention against Corruption since 2006; http://ua.mfa.gov.tr/detay.aspx?15042 Moreover, Turkey has ratified several conventions on bribery and corruption including OECD and UN conventions http://www.masak.gov.tr/en/LaunderingProceedsofCrime/Chronology.htm . The Project owner has not any negative track record related to corruption or any such activity whatsoever.	The project activity does not involve in any kind of corruption or reinforced corruption or corrupt project. The validation team confirms that project activity fulfils the GS certification requirement outlined in the para 5.1.1 of the GS4GG safeguarding principles requirements version 2.1/45/.
Principle 6 Economic Impacts			
Principle 6.1 Labour Rights and working conditions			
P.6.1.1 a) Does the project involve, facilitate, or	P.6.1.1 a) No b) No	Project owner protects labours rights of all employees within this company. Workers might	The project activity does not involve any kind of forced labour or compulsory

condone forced labor, or pose a potential risk of forced labor? b) Does the project violate any labor or health and safety laws, international obligations, or ILO conventions? P.6.1.2 Does the project violate the principles of equal opportunity and fair treatment in its employment decisions? P.6.1.3 Does the project violate national laws, if available regarding non-discrimination in employment? P.6.1.4 Does the project allow child labor? P.6.1.7 Does the project have insufficient processes and measures in place to ensure the safety and health of project workers? P.6.1.9 Does the project have insufficient measures to safeguard and support vulnerable project workers, such as women, people with	P.6.1.2 No P.6.1.3 No P.6.1.4 No P.6.1.7 No P.6.1.9 No P.6.1.10 No	have occupational accidents during construction and operation phase. According to project developer, during construction and operational phase of the project "Health and Occupational Safety Regulation" will be followed. Regulation could be found under this link too: http://www.mevzuat.gov.tr/MevzuatMetin/1.5.6331.pdf 1. Turkey has ratified ILO 87 and 98 conventions. All employee are recruited according to the national legislations. Turkey is a party of IPEC (http://www.ilo.org/ipec/programme/lang--en/index.htm and http://www.ilo.org/ipec/Regionsandcountries/lang--en/index.htm) since 1992 and ratified ILO convention 138 and 182 (http://www.ilo.org/public/turkish/region/eurpro/ankara/about/sozlesmeler.htm). Turkey has ratified ILO convention 155 and about work safety and precautions. 2. In accordance with the Labour Code of Turkey, workers should have the right to establish and join the organization that they consider necessary. 3. The project owner follows regulations of Labour Code of Turkey. All employee are provided with labour contracts, medical insurance and regular health-check as well as social insurance and unemployment insurance.	labour. The employees of the project do not collusion any form of forced or compulsory labour and will be provided with training and certification to work with high voltage equipments. The validation team confirms that project activity fulfils the GS certification requirement outlined in the para 6.1.1 to 6.1.12 of the GS4GG safeguarding principles requirements version 2.1 /45/.

disabilities, migrant workers, and young workers, and to prevent any kind of harassment, abuse, bullying, or exploitation, including gender-based violence (GBV)? P.6.1.10 Does the project have no grievance mechanism available for workers to voice workplace concerns? Is information about this mechanism not provided to workers at the time of recruitment, or is it not easily accessible?		4. Trained technicians are involved in construction and operation and maintenance of plants. Therefore, no child labour is involved. 5. Necessary health and safety measures will be taken during operation phase according the regulation of health and safety reguirements in construction Works (http://www.resmigazete.gov.tr/eskiler/2013/10/20131005-2.htm). Additionally, relevant staff will be trained to be able to work with high voltages, high heights and heavy machineries.	
Would the project potentially involve or lead to: **(**note: applies to both project and contractor workers) P.6.1.1 a) use of forced labour? b) working conditions that do not meet national labour laws and international commitments? c) working conditions that may deny freedom of association and collective bargaining? d) absence of documented	P.6.1.1 a) No b) No c) No d) No e) No f) No P.6.1.2 a) No b) No c) No P.6.1.3 No P.6.1.4 a) No b) No		

working agreements with all individual workers e) use of migrant workers? f) having no arrangements for basic services for workers? P.6.1.2 a) any form of discrimination or harassment based on factors unrelated to job requirements, such as gender, race, nationality, ethnicity, social or indigenous origin, religion or belief, disability, age, or sexual orientation? b) any form of discrimination in any aspect of employment, such as recruitment, compensation, working conditions, training, job assignment, promotion, termination, or discipline? c) harassment, intimidation, and/or exploitation, especially in regard to women? P.6.1.3 discriminatory working conditions and/or lack of equal opportunity where national law provides provision to address non-discrimination in	P.6.1.7 a) No b) No c) No P.6.1.8 No P.6.1.9 No P.6.1.10 No P.6.1.11 No		

employment? P.6.1.4 a) use of child labour? (including third-party engaged workers) b) inadequate and verifiable mechanisms for age verification? P.6.1.7 a) no processes and measures in place for the safety and health of project workers? b) No provision of safety and health training provisions, including on the proper use and maintenance of personal protective equipment conducted by competent persons and the maintenance of training records? c) No provision to record and document accidents, diseases, incidents, and any resulting injuries, illnesses, or deaths? P.6.1.8 occupational health and safety risks due to physical, chemical, biological and psychosocial hazards (including violence and harassment) throughout the project life-cycle? P.6.1.9 No measures to protect vulnerable project workers from harassment, exploitation, and gender-based violence			

(GBV)? This includes women, people with disabilities, migrant workers, and young workers. P.6.1.10 No grievance mechanism available for workers to voice workplace concerns. P.6.1.11 No measures for due diligence and the establishment of policies and procedures to manage and monitor the performance of third-party employees in the project?			
Principle 6.2 Negative Economic Consequences			
P.6.2.1 Is there a risk of project failure during implementation or after project certification due to a lack of financial resources? P.6.2.2 a) Does the project have potential negative impacts or pose a risk to the local economy? b) Are there any potential risks or negative impacts this project may have on vulnerable or marginalised social groups, despite the benefits it may bring?	P.6.2.1 No P.6.2.2 a) No b) No	The project activity involves electricity generation from local and renewable sources. Since Turkey is dependent on import fuel (mainly natural gas and coal), project will not generate any risk but contribute to local economy. Project Activity provides job opportunities for local people. By this way, it contributes improvement of economy.	There are no negative economic consequences from the project activity. The validation team confirms that project activity fulfils the GS certification requirement outlined in the para 6.2.1 and 6.2.2 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.6.2.2 a) economic impacts	P.6.2.2 a) No b) No		

(negative/detrimental) to the local economy? b) negative economic consequences during and after project implementation, e.g., for vulnerable and marginalised social groups in targeted communities?			
Principle 7 Climate and Energy			
Principle 7.1 GHG Emissions			
P.7.1.1 Does the project have a risk of increasing greenhouse gas emissions over the Baseline Scenario?	P.7.1.1 No	The Project will reduce the emission of 187,114 tCO_2e/year compared to the Baseline Scenario as it replaces electricity generated from fossil fuel fired power plants with zero emissions electricity from the wind power plant. On the contrary, it helps to reduce GHG emissions by producing green energy.	The project activity does not generate emissions and fulfils the GS certification requirement outlined under para 7.1.1 in the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.7.1.1 increase greenhouse gas emissions over the Baseline Scenario?	P.7.1.1 No		
Principle 7.2 Energy Supply			
P.7.2.1 Does the project pose a risk to the availability and reliability of energy supply to other users?	P.7.2.1 No	The Project's purpose is to supply clean energy from the wind power plant to the national grid. Plant sometimes can use energy from local grid in the absence of wind. However, this amount is really small when compared to its production of green energy amount.	Plant sometimes can use energy from local grid in the absence of wind. The validation team confirms that project fulfils the GS certification requirement outlined under para 7.2.1 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.7.2.1 negative impact on the availability and reliability of energy supply to other users?	P.7.2.1 No		
Principle 8 Water			
Principle 8.1 Impact on Natural Water Patterns/Flows			
P.8.1.1 a) Does the project increase water usage to a level that	P.8.1.1 a) No b) No	According to the PIF, there is no aqua production and protected aquifers close to	The project doesn't impact the natural water patterns or

will not allow for the maintenance of environmental flows? b) Does the project result in the discharge of wastewater that does not meet the required standard for beneficial reuse and could therefore negatively impact the environmental flow? c) Does the project have the potential risk to exceed the rate of recharge for the groundwater source? d) Does the project involve any processes or activities that could contaminate the groundwater and render it unsuitable for use?	c) No d) No	the plant. No lakes or streams are found in the vicinity of the project area	flows and doesn't result in discharge of the wastewater. The validation team confirms that project fulfils the GS certification requirement outlined in para 8.1.1 and 8.2.2 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.8.1.1 a) affect the natural or pre-existing pattern of watercourses, groundwater and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity? b) Wastewater discharge of quality that does not meet the required standard for beneficial reuse? c) significant extraction, diversion of ground water? For example, construction of dams, reservoirs,	P.8.1.1 a) No b) No c) No d) No		

river basin developments, groundwater extraction d) Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?			
Principle 8.2 Erosion and/or Water Body Instability			
P.8.2.1 Does the project have a risk of negatively impacting the catchment and has it been assessed and addressed?	P.8.2.1 No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle 4.2.2 Erosion and/or Water Body Instability): There is no interruption to the hydrological systems in a WPP.	The project does not cause any additional erosion and/or water body instability or disrupt the natural pattern of erosion and therefore no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 8.2.1 to 8.2.6 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.8.2.2 negatively impact on the catchment area? P.8.2.6 Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	P.8.2.2 No P.8.2.6 N/A		
Principle 9 Environment, Ecology and Land use			
Principle 9.1 Landscape Modification and Soil			
P.9.1.1 Is there any risk of soil resource degradation or loss of ecosystem services provided by soils in the project?	P.9.1.1 No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle Landscape Modification and Soil): Only potential impact to soil would be observed due to construction activities of the Project, and these negligible impacts are not permanent.	The project does not involve the use of land and soil for production of crops or other products therefore no mitigation measure is required. The validation team confirms that project activity fulfils the GS
Would the project involve or lead to:	P.9.1.4 No		

P.9.1.4 production, harvesting, and/or management of living natural resources by small-scale landholders and/or local communities? P.9.1.4 if answer to above question "yes" or "potentially", does project adopt appropriate and culturally sensitive sustainable resource management practices?	P.9.1.4 N/A	Furthermore, there is an access road to the project area so that there is no problem in accessing the area. The necessary attention to be paid to the speed limits of the trucks and the material inside the trucks will be covered. Trucks to be loaded in line with the axle load and will not be overloaded, the top 10% of the material to be moisturised.	certification requirement outlined in para 9.1.1 to 9.1.4 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Principle 9.2 Vulnerability to Natural Disaster			
P.9.2.1 Does the project have any risks associated with natural or man-made hazards that could result from land use changes due to the project?	P.9.2.1 No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle Vulnerability to Natural Disaster): The project area is not a place to specific extreme climatic conditions and harmful natural events such as earthquake	Not Applicable
Would the project involve or lead to: P.9.2.2 a) any potential risks that require emergency preparedness and response planning? b) if answer to above question "yes" or "potentially", did the project developer disclose appropriate information about emergency preparedness and response to affected communities?	P.9.2.2 a) No b) No		
Principle 9.3 Biosafety and Genetic Resources			
P.9.3.1 Does the project involve the transfer, handling, and use of genetically modified	P.9.3.1 No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle 4.3.3 Genetic	Not Applicable

organisms/living modified organisms that may result in adverse effects on biological diversity?		Resources): There is no relevance to GMO of a Wind Power Plant.	
Would the project involve or lead to: P.9.3.1 a) the transfer, handling and use of genetically modified organisms/living modified organisms (GMOs/LMOs) that result from modern biotechnology b) If answer to above question is "yes" has a risk assessment by a competent Expert stakeholder been carried out in accordance with annex iii of the cartagena protocol on biosafety to the convention on biological diversity P.9.3.2 If answer to above question is "yes" has any risks identified in the risk assessment? P.9.3.3 Forestry (for example Afforestation/Reforestation) involving GMO planting? Note - Forestry projects (for example Afforestation/ Reforestation) involving GMO planting are not eligible for Certification under Gold Standard for the Global Goals	P.9.3.1 a) No b) N/A P.9.3.2 N/A P.9.3.3 N/A		

Principle 9.4 Release of pollutants			
P.9.4.1 any potential risk of pollutant release that cannot be avoided?	P.9.4.1 No	During this Crediting Period the Project Activity will produce domestic waste due to employee but it will be collected appropriately. Also, waste oil will be generated due to operation of the wind turbines and they will also be collected and disposed following related regulations and precautions defined by the laws and the Municipality. Moreover, wastewater generated by the employee use will be collected and disposed appropriately following relevant regulations. According to PIF, nearest settlement (Seklik Village) is 1 km away from the project site. Distance-noise calculation for construction period of the project activity shows that the noise level for this length is 40.59 dBA, which is below minimum legal limit values i.e. 50 dBA for night and 60 dBA for daylight. The noise level from turbines during operation is low and under legal limits. Therefore, no negative impact of noise of the project activity to the habitants is expected during operation period. The same is valid for shadow flickering effect. Since the nearest residential house is 600m away from the closest turbine there is no shadow flickering effect.	The Project may generate some waste oil, which will be vacuumed by the vacuum truck regularly. Monitoring parameter has been included to monitor the oil waste. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.4.1 to 9.4.3 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.4.1 any potential risk of pollutant release that cannot be avoided? P.9.4.3 If answer to above question is "Yes" or "potentially", has the project identified all potential pollution sources that may degrade the quality of soil, air, surface, and groundwater in the project area? P.9.4.2 If answer to above question is "Yes" or "potentially", do the pollution prevention and control technologies and practices applied during the project life cycle align with national regulations or international best practices? P.9.4.3 If answer to above question is "Yes", is there a monitoring plan to ensure that mitigation measures are implemented, and resources are protected?	P.9.4.1 No P.9.4.3 N/A P.9.4.2 N/A P.9.4.3 N/A		
Principle 9.5 Hazardous and Non-hazardous Waste			

P.9.5.1 Does the project involve the generation of waste materials (both hazardous and non-hazardous)? P.9.5.3 Does the project involve risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use? P.9.5.5 Does the project involve the use of any chemicals or materials subject to international bans or phase-outs?	P.9.5.1 No P.9.5.3 No P.9.5.5 No	The proposed Project activity is a renewable energy project and doesn't involve any hazardous chemicals & other materials. The host party has its credible legislation "Health and Occupational Safety Regulation". Regulation could be found under this link too: http://www.resmigazete.gov.tr/eskiler/ 2012/06/20120630-1.htm Hazardous waste including lubricant, grease, light bulb, accumulator, etc. may release during the maintenance process of equipment; and Non-hazardous waste including domestic solid waste and domestic waste water are generated from worker's activities.	The project activity is a wind power plant and does not release any hazardous or non-hazardous chemical waste, therefore, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.5.1 to 9.5.5 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.5.1 a) the generation and management of waste materials? b) treatment, destruction, or disposal of waste material? c) If answer to above question is "Yes", does the project involve an environmentally friendly method that includes appropriate control of emissions and residues resulting from the handling and processing of waste material? P.9.5.3 a) risk of release of hazardous materials resulting from their production, transportation, handling, storage, or	P.9.5.1 a) Potentially b) No c) No P.9.5.3 a) No b) No P.9.5.4 No		

use? b) If answer to above question is "yes", does project has measures in place to address health risks? P.9.5.4 Involve manufacture, trade, and use of chemicals and hazardous materials subject to international bans or phase-outs due to their high toxicity to living organisms, environmental persistence, potential for bioaccumulation, or potential for depletion of the ozone layer			
Principle 9.6 Pesticides & Fertilisers			
P.9.6.1 Does the project involve the use of chemical pesticides? P.9.6.5 Does the project involve purchase, store, manufacture, trade or use products that fall in Classes IA (extremely hazardous) and IB (highly hazardous) P.9.6.6 Does the project use fertilisers, and if so, are measures being taken to minimise their use and nutrient losses to the environment?	P.9.6.1 No P.9.6.5 No P.9.6.6 No	The Project's purpose is to supply clean energy from the wind power plant to the national grid. Therefore the Project does not involve the application of pesticides and/or fertilizers.	The project is a wind power plant project and does not involve application of pesticides and/or fertilisers. Thus, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.6.1 to 9.6.6 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.6.1 chemical pesticides use for pest management? P.9.6.4 If answer to	P.9.6.1 No P.9.6.4 NA		

question above is "yes" or "potentially", does project has documented Chemical Pesticides Policy in place? P.9.6.5 a) purchase, store, use, manufacture, or trade in Class II (moderately hazardous) pesticides? b) If answer to question above is "yes" or "potentially", does project has appropriate controls on manufacture, procurement, or distribution and/or use of these chemicals?	P.9.6.5 No P.9.6.5 a) No b) No		
Principle 9.7 Harvesting of Forests			
P.9.7.1 a) Does the project have a risk of unsustainable forest management, including timber harvesting? b) Does the project pose a risk of depleting biodiversity and ecosystem functionality in areas where improved forest management is undertaken? c) Does the project risk not meeting requirements for environment-friendly, socially beneficial, and economically viable plantations using native species whenever possible?	P.9.7.1 a) No b) No c) No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle 4.3.7 Harvesting of Forests): There has not been a significant forestation during the construction phase (i.e. project has been approved as EIA positive) and the Project does not involve an operation that requires forest harvesting.	The project is a wind power plant project and does not involve harvesting of forests. Thus, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.7.1 and 9.7.2 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Principle 9.8 Food security			

P.9.8.1 Does the project involve the risk of negatively influencing access to and availability of food for people affected?	P.9.8.1 No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle 4.3.8 Food): The Project does not modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives	The project is a wind power plant project and does not involve modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives. Thus, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.8.1 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.8.1 modification of the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	P.9.8.1 No		
Principle 9.9 Animal welfare			
P.9.9.1 Does the project involve any risks to animal welfare? Animal welfare shall be ensured by providing access to water and food, appropriate environment, humane treatment, and staff training. Evidence of mistreatment will be treated as an immediate non-conformity. P.9.9.2 Does the project involve any potential risk of excessive or inadequate use of veterinary medicines? P.9.9.4 Does the project involve the	P.9.9.1 No P.9.9.2 No P.9.9.4 No	The Project is being implemented in a proper way (by considering the concerns indicated via the entire principle 4.3.9 Animal husbandry): The Project does not involve any operation that disrupt husbandry and agriculture in the region.	The project is a wind power plant project and does not involve in animal husbandry. Thus, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.9.1 to 9.9.9 of the GS4GG safeguarding principles requirements version 2.1 /45/.

risk of administering synthetic growth promoters, including hormones?			
Would the project involve or lead to: P.9.9.1 a) animal husbandry or harvesting of fish populations or other aquatic species? b) limiting access for animals to basic needs like drinking water, adequate food, daylight, appropriate shelter etc.? P.9.9.3 inadequate measures to isolate sick animals and control the spread of disease, especially zoonotic diseases? P.9.9.5 inadequate low-stress methods, equipment, and facilities that facilitate calm animal movement. P.9.9.6 inadequate measures to ensure that animals are exposed to the least stress possible during transportation and slaughtering? P.9.9.7 inappropriate spacing per animal and stocking rates per land unit? P.9.9.8 inadequate measures to address the specific needs of aquatic animals? P.9.9.9, P.9.9.10 primary production of living natural resources such as	P.9.9.1 a) N/A b) No P.9.9.3 N/A P.9.9.5 N/A P.9.9.6 N/A P.9.9.7 N/A P.9.9.8 N/A P.9.9.9, P.9.9.10 N/A		

animal husbandry, aquaculture, and fisheries? If the answer is yes, implement industry-standard sustainable management practices in line with to one or more relevant and credible standards and utilise available technologies.			
Principle 9.10 High Conservation Value Areas and Critical Habitats			
P.9.10.1 Does the project have the risk of negatively impacting HCV areas and/or critical habitats? P.9.10.2 Does the project in the project area or area of downstream impacts have risks to the following: native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?	P.9.10.1 Yes P.9.10.2 No	There is no endangered flora or fauna in the region. The project site has no protection status in terms of National Park, Land Fence, Protection of Cultural and Natural Assets and similar laws. The project is not located in an area within a high conservation value area or within critical natural habitats or key biodiversity areas or site identified. Therefore, the project activity does not affect or alter ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified. The project area is not on the migration path of birds therefore the effect on birds by the project activity is negligible. However, proper mitigation measures will be applied to the project activity including: painting over turbine with white color and installation of warning lights.	The project does not physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified. Thus, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.10.1 to 9.10.5 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.10.1 a) identified habitats as HCV areas and or Critical habitats? b) If answer to above question is "yes", does	P.9.10.1 a) No b) NA c) NA P.9.10.2 a) No b) NA		

the project have any risks that could negatively impact the catchment, project success, and surrounding HCV and ecological assets, as well as any measurable adverse impacts on the criteria or biodiversity values for which the critical habitat was designated, and on the ecological processes supporting that biodiversity? c) If answer to above question is "yes", is a robust, appropriately designed, and long-term Habitats and Biodiversity Action Plan absent which will make the project unable to achieve net gains of those biodiversity values for which the critical habitat was designated? P.9.10.2 a) Does the project area or area of downstream impacts have native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas? b) If the answer to the	P.9.10.3 NA P.9.10.4 NA P.9.10.5 NA		

above question is "yes", will the project have any adverse effects on these areas? P.9.10.3 If the answer to above question is "yes", does the project has opportunities to minimise unwarranted conversion or degradation of the habitat and to enhance the habitat as part of its development? P.9.10.4 Is the project applying Land Use & Forest Activity Requirements and managing a minimum 10% of the project area to protect or enhance the biological diversity of native ecosystems following HCV approach as per the given requirements? P.9.10.5 Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?			
Principle 9.11 Endangered Species			
P.9.11.1 Does the project lead to the reduction or negative impact on any recognised Endangered, Vulnerable or Critically	P.9.11.1 No	1. According to the PIF, the project area is not in natural protection zone. There are no endangered species identified as potentially being present the project Boundary.	The project activity does not include any endangered the flora and fauna types which have been identified within the boundaries of project

Endangered species?		2. According to PIF and also the bird routes map of Doga Dernegi (an environmental NGO in Turkey), the project is not on the route of migration birds. The project doesn't affect adversely the migration of birds.	area and therefore, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.11.1 to 9.11.3 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.11.2 a) distortion of habitats of endangered species? b) If answer to the above question is "yes", does the project plan to protect and enhance them? c) Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	P.9.11.2 a) No b) No c) No		
Principle 9.12 Invasive Alien Species			
P.9.12.1 Does project introduce any alien species (not currently established in the country or region of the project) into new environments?	P.9.12.1 No	N/A	The project activity does not introduce any alien species that is not currently established in the country or region within the boundaries of project area and therefore, no mitigation measure is required. The validation team confirms that project activity fulfils the GS certification requirement outlined in para 9.11.1 to 9.11.3 of the GS4GG safeguarding principles requirements version 2.1 /45/.
Would the project involve or lead to: P.9.12.1 a) risk of introducing any alien species with a high risk of invasive behaviour regardless of whether such introductions are permitted under the existing regulatory framework? b) risk of potential accidental or unintended introductions including the transportation of substrates and vectors	P.9.12.1 a) No b) No P.9.12.2 No		

(such as soil, ballast, and plant materials) that may harbour alien species. P.9.12.2 risk of spreading alien species into areas in which they have not already been established?			