

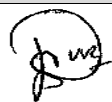
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# GS PROJECT RENEWAL OF CREDITING PERIOD VALIDATION REPORT

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Boreas Enerji Üretim Sistemleri  
San. ve Tic. A.Ş.

Boreas-1 Enez Wind Power Plant  
IN  
TURKEY

<b>Organizational Unit:</b>	Re Carbon Ltd. Carbon Department		
<b>Project Title:</b>	Boreas-1 Enez Wind Power Plant		
<b>Project Number:</b>	<b>Client:</b>	<b>Current PDD Version:</b>	
530	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.	13	
<b>Date of First Issue:</b>	<b>Date of Current Version:</b>	<b>Version Number:</b>	<b>Number of Pages:</b>
26/11/2018	31/05/2019	03	79
<b>Summary:</b>			
<b>Host Country:</b> Turkey			
<b>Project is Reviewed Against:</b>			
<input checked="" type="checkbox"/> Kyoto Protocol <input checked="" type="checkbox"/> UNFCCC CDM Rules and Regulations and associated documents <input checked="" type="checkbox"/> Gold Standard Rules and Regulations <input type="checkbox"/> Other (Please Specify)			
<b>Methodology:</b> AMS I.D.		<b>Version:</b> 18.0	
<b>Project Participants:</b> Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.			
<b>Average Annual Emission Reduction Estimate in the 2<sup>nd</sup> Crediting Period:</b> 29,948 tCO <sub>2</sub> e			
<b>Project Size:</b> <input type="checkbox"/> Large Scale <input checked="" type="checkbox"/> Small Scale <input type="checkbox"/> Micro Scale			
<b>Registry Number:</b>	<b>Crediting Period Renewal No:</b>	<b>Crediting Period Start Date:</b>	
GS 702	<input checked="" type="checkbox"/> 1 <sup>st</sup> <input type="checkbox"/> 2 <sup>nd</sup>	18/03/2019	
<b>Validation Stages:</b>			
<input checked="" type="checkbox"/> Desk Review <input checked="" type="checkbox"/> Site Visit <input checked="" type="checkbox"/> Follow-up Interviews <input type="checkbox"/> Global Stakeholder Consultation <input checked="" type="checkbox"/> Resolution of Outstanding Issues			
<b>Validation Findings:</b> During the validation 15 Corrective Action Requests, 02 Clarification Requests were raised, all of which were closed out before the issuance of this validation report. No Forward Action Requests were raised during the validation.			
In summary, it is Re Carbon Ltd.'s opinion that the project activity "Boreas-1 Enez Wind Power Plant" in Turkey, as described in the PDD, version 13 dated 30/05/2019, meets all relevant UNFCCC requirements for the CDM, GS and all relevant host Party criteria and correctly applies the baseline and monitoring methodology AMS I.D., version 18.0. Hence, Re Carbon Ltd. requests the renewal of crediting period of this registered GS project.			
<b>Validation Team Leader:</b>	Anıl Söyler		<b>Indexing Terms:</b>
<b>Validation Team Members:</b>	N/A		<input checked="" type="checkbox"/> No distribution without permission of the client or responsible organizational unit
<b>Approved By (Technical Reviewer):</b>	<b>Name:</b>	<b>Signature:</b>	<input type="checkbox"/> Limited Distribution
	Sukanta Das		<input type="checkbox"/> Unrestricted Distribution

## **Abbreviations**

<b>BM</b>	: Build Margin
<b>CAR</b>	: Corrective Action Request
<b>CDM</b>	: Clean Development Mechanism
<b>CER</b>	: Certified Emission Reduction(s)
<b>CL</b>	: Clarification request
<b>CM</b>	: Combined Margin
<b>CO<sub>2</sub></b>	: Carbon dioxide
<b>CO<sub>2</sub>e</b>	: Carbon dioxide equivalent
<b>DNA</b>	: Designated National Authority
<b>DOE</b>	: Designated Operational Entity
<b>DR</b>	: Document Review
<b>EF</b>	: Emission Factor
<b>EIA</b>	: Environmental Impact Assessment
<b>ER</b>	: Emission Reductions
<b>ERPA</b>	: Emission Reduction Purchase Agreement
<b>FAR</b>	: Forward Action Request
<b>FSR</b>	: Feasibility Study Report
<b>GHG</b>	: Greenhouse gas(es)
<b>GWP</b>	: Global Warming Potential
<b>I</b>	: Interview
<b>IPCC</b>	: Intergovernmental Panel on Climate Change
<b>IRR</b>	: Internal Rate of Return
<b>kWh</b>	: Kilo Watt Hour
<b>LoA</b>	: Letter of approval
<b>MoV</b>	: Means of Validation
<b>MW</b>	: Mega Watt
<b>MWh</b>	: Mega Watt Hour
<b>NCV</b>	: Net Calorific Value
<b>NGO</b>	: Non-governmental Organisation
<b>ODA</b>	: Official Development Assistance
<b>OM</b>	: Operating Margin
<b>PDD</b>	: Project Design Document
<b>PP</b>	: Project Participant(s)
<b>Tco<sub>2</sub>e</b>	: Tonnes of CO <sub>2</sub> equivalents
<b>UNFCCC</b>	: United Nations Framework Convention on Climate Change
<b>VAT</b>	: Value-added tax



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## **1. EXECUTIVE SUMMARY – VALIDATION OPINION**

Re Carbon Ltd. has performed the 2<sup>nd</sup> (second) crediting period validation of the “Boreas-1 Enez Wind Power Plant” in “Turkey” between 05/11/2018 and 31/05/2019. The validation was performed on the basis of UNFCCC criteria for the Clean Development Mechanism (CDM), Gold Standard and Host Party criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

As a result of validation, Re Carbon Ltd. concludes the following:

- The review of the project design documentation and the subsequent follow-up interviews have provided Re Carbon Ltd. with sufficient evidence to determine the fulfillment of all stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and Gold Standard. Therefore, Re Carbon Ltd. will recommend the renewal of crediting period of the project by the Gold Standard Organization.
  
- The review of the project design documentation and the subsequent follow-up interviews have not provided Re Carbon Ltd. with sufficient evidence to determine the fulfillment of all stated criteria. Therefore, Re Carbon Ltd. will not recommend the renewal of crediting period of the project by the Gold Standard Organization and will inform the project participants and the Gold Standard Organization on this decision.

## 2. INTRODUCTION

### 2.1. Objective

Re Carbon Ltd. has been appointed by “Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.” to perform the crediting period renewal validation of the “Boreas-1 Enez Wind Power Plant” in Turkey with the contract dated 31/10/2018. The objective of this validation activity is to have an independent third party for the assessment of the project, and to ensure that the selected baseline, estimated emission reductions and monitoring plan is still in line with the applied methodologies and the applicable CDM and Gold Standard requirements. In particular;

- the project’s baseline is assessed against “AMS I.D. Grid connected renewable electricity generation--- Version 18.0”
- the project’s monitoring plan is assessed against “AMS I.D.: Grid connected renewable electricity generation--- Version 18.0”
- 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
- the projects compliance with, the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria
- CDM Validation and Verification Standard for project activities version 2.0
- CDM Project Standard for project activities version 2.0
- CDM Project Cycle Procedure for project activities version 2.0
- Gold Standard for Global Goals version 1.0

Validation is a requirement for all Gold Standard projects that are requesting a renewal of crediting period and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified emission reductions (VERs).

### 2.2. Scope

The scope of the validation is the independent and objective review of the Project Design Document (PDD) which is revised for the 2<sup>nd</sup> (second) crediting period. The PDD is reviewed against the relevant criteria (see Section 2.1) and decisions by the CDM Executive Board AND Gold Standard Organization, including the approved baseline and monitoring methodology. The validation was based on the guidance given in the CDM Validation and Verification Standard for project activities, version 2.0, CDM Project Standard for project activities, version 2.0, CDM Project Cycle Procedure for project activities, version 2.0 and Gold Standard for Global Goals version 1.0.

The validation team has employed a risk-based approach to assess the completeness and accuracy of the claims and conservativeness of the assumptions in the PDD. The main focus of the validation team is to determine if the identified baseline is still applicable to the project activity, if the estimated emission reductions for the 2<sup>nd</sup> (second) crediting period are still conservative and if the monitoring plan is still feasible for the project activity.

The only purpose of the validation is its usage during the renewal of crediting period process as part of the Gold Standard project cycle. Therefore, Re Carbon Ltd. can't be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.

### **2.3. GHG Project Description**

Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş., has installed and commissioned a 15 MW wind power plant with six Nordex N90 turbines, each having a capacity of 2.5 MW and with 80m hub height. The project is located in Enez district of Edirne in Turkey and nearest village is Hisarli Village which is approximately 1 km away from the project area.

The project supplies electric power to the Turkish National grid through the substation Enez TM, 154 Kv bara via 10 km transmission line.

Subsequently, the installed capacity of the project has been increased to 20 MW with the revision. Two units have been added to the project as of 16/04/2015 and 02/08/2016, respectively. The added units are also from the same turbine supplier-Nordex N100 turbines with an installed capacity of 3.3 MW. However, the N100 turbines are operated as 2.5 MW due to power limitation according to the generation license. However, as the Gold Standard rules require the capacity addition approval to be submitted within one year of its start date i.e. by 02/08/2017 which did not happen, therefore, the capacity addition component is not eligible anymore under Gold Standard and so, the renewal of the crediting period is without the capacity addition component. Gold Standard registered capacity of the project (15 MW) is considered and the electricity generation and the emission reduction of the added units hadn't been included for the renewal of the crediting period.

The annual net electricity production of the initially registered 15 MW project is expected to be 52.74 GWh per year.

The first crediting period start date of the project was 01/05/2011 with choice of renewable crediting period. The PDD submitted for renewal of crediting period indicates the second renewable crediting period start date as 18/03/2019 and the end date as 17/03/2026.

### **2.4. Parties Involved**

The registered PDD indicates Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş. as the project participant.

The PDD submitted for renewal of crediting period indicates the same one (Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.) as the project participant and host country is Turkey.

### 3. METHODOLOGY

The renewal of crediting period validation of proposed Gold Standard project activity includes the following phases:

- Assessment whether the baseline of the project activity is revised in the PDD to reflect the most recent situation for the project activity, via a desk review of the revised PDD between 05/11/2018 and 08/02/2019.
- Assessment whether the applied methodology AMS I.D., version 18.0, in the revised PDD has been applied correctly, including the baseline selection and monitoring plan.
- Assessment of data and calculation of greenhouse gas emission reductions.
- Issuance of the renewal of crediting period validation report
- Independent technical review (ITR)
- Approval of the validation report and request of renewal of crediting period

The Validation Protocol is used for the assessment of each requirement during the execution of validation activities and is given in Annex-1 of this validation report.

The Validation Protocol consists of two tables:

- Table 1 (Project Design Document (PDD) and CDM and GS validation requirements) and
- Table 2 (Resolution of Corrective Action, Forward Action and Clarification Requests)

The usage description of Table-1 in Validation Protocol is explained in Table 3-1 below:

**Table 3-1:** Explanation about Table-1 in Validation Protocol

Question	Reference	MoV*	Findings, comments, references and document sources	Draft & Final Conclusion
The requirements related with the PDD and validation	Gives reference to the legislation or documents where the relevant requirement is found	Explains how conformance with question is investigated. Examples of means of validation are Document Review (DR), Interview (I) and Not Applicable (NA)	Is used to elaborate and discuss the question and/or conformance to the question by giving related references and document sources based on which the finding is issued or evidence is checked	Either acceptable based on the evidence provided (OK), non-compliance with the requirement (CAR), further clarification (CL) due to insufficient, unclear or not transparent information, forward action request (FAR) that needs to be solved during the verification

The usage description of Table-2 in Validation Protocol is explained in Table 3-2 below:

**Table 3-2:** Explanation about Table-2 in Validation Protocol

<b>Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team</b>	<b>Ref. to Questions in Table-1</b>	<b>Summary of Project Participants' Response</b>	<b>Validation Team Conclusion</b>
The all CL, FAR and CARs determined during the draft validation report should be listed here	Gives reference to the checklist questions in Table-1 of Validation Protocol	Is used to summarize the responses by project participants regarding the non-conformities	Is used to summarize the responses by validation team and their conclusions

The Validation Protocol is fulfilled by the validation team in line with the descriptions above and all the CARs, CLs and FARs are listed in a transparent and clear manner.

### 3.1. Validation Team and ITR Selection

The appointment process of the validation team takes into account the technical area(s), sectoral scope(s), and relevant host country experience required amongst team members for the accurate and thorough assessment of the project design. The relevant CDM and GS validation and previous ITR experiences are also assessed during the selection of the team members and Independent Technical Reviewer (ITR), respectively. The validation team and ITR are assigned to this validation activity on 23/10/2018 taking all the above factors into consideration and as a result of the contract review process.

The validation team members and ITR are given in Table 3-3 below:

**Table 3-3:** Validation team and ITR details

<b>Name</b>	<b>Role</b>	<b>Host Country Experience</b>	<b>Scope Coverage</b>	<b>Technical Expertise</b>	<b>Financial Expertise</b>	<b>Involvement*</b>
Anil Söyler	Team Leader	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A, DR, R, SV
Sukanta Das	ITR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ITR

\* Explanations for the abbreviations used for involvement types are as follows:

- A : Administrative
- DR : Desk Review
- SV : Site Visit
- R : Reporting
- ITR : Independent Technical Review

### 3.2. Desk Review of the PDD and Additional Documents

The basis for the crediting period renewal validation activity is the PDD version 09, dated 26/11/2018 which was submitted to the validation team on the same day. This PDD was

revised several times due to the raised CARs and CLs, version 12 dated 30/05/2019 being the final version. The PDD was assessed against;

- The methodology AMS I.D.: Grid connected renewable electricity generation--- Version 18.0 and the associated tools
- the Host Country criteria
- CDM Validation and Verification Standard for project activities, version 2.0
- CDM Project Standard for project activities, version 2.0
- CDM Project Cycle Procedure for project activities, version 2.0
- and other relevant documents, rules and regulations listed in section 2.1 of this report
- Gold Standard procedures for the renewal of a crediting period, Version 2.2, Annex-z.

A list of all the documents that were reviewed can be found in Section 6 of this validation report.

### 3.3. Site Visits

As a part of the validation activities a site visit was performed to the project activity site, details of which can be seen in the Table 3-5 below:

**Table 3-4: Site visit details**

Date	12/11/2018	
Location	Enez / Edirne	
Participant	Company Name	Role in the Organization / Role in the Site Visit
Ersun Şılak	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.	Operation Manager
Esin Ertaş	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.	Operation Technician
Orhan Başaran	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.	Cook (Local)
Aydın Öztürk	Nordex A.Ş.	Service Technician
Tarık Meriç	Nordex A.Ş.	Service Technician
Aydın Beyaz	Tepe Güvenlik A.Ş.	Security Staff (Local)
Sıla Duran	Sekans Danışmanlık Ltd.	Consultant
Anıl Söyler	Re Carbon Ltd.	Team Leader
Harun Karakaya	Hisarlı Village	Villager
Enbia Nas	Hisarlı Village	Villager
Emin Nas	Hisarlı Village	Villager
Bekir Aydoğdu	Hisarlı Village	Villager

Points Verified	Source of Information
To confirm rightness of project description, as per GS PDD and Passport including project components and location	Document Review / Site Visit
To check the project development and operation	Document Review / Site Visit
To interview with the local stakeholders about the project and its impacts	Site Visit

### 3.4. Reporting of Findings via the Validation Protocol

During the validation period, a Validation Protocol which is attached in Annex 1 to this crediting period renewal validation report was used to submit the findings to the project participants.

In line with the CDM Validation and Verification Standard, the team reports the non-conformities in the forms of Corrective Action Requests (CARs), Clarification Requests (CLs) and Forward Action Requests (FARs). When and for which type of non-conformities CARs, CLs and FARs are raised are explained below:

- The Validation team raises a **CAR** if one of the following occurs:
  - The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions
  - The CDM and/or GS requirements have not been met
  - There is a risk that emission reductions cannot be monitored or calculated.
- The Validation team raises a **CL** if information is insufficient or not clear or not transparent enough to determine whether the applicable CDM and/or GS requirements have been met.
- The Validation team raises a **FAR** during validation to highlight issues related to project implementation that require review during the verification of the project activity.

According to these principles total of 15 CARs and 02 CLs were raised all of which are listed in the Validation Protocol. There hasn't been any FARs issued during the validation.

### 3.5. Follow-Up Interviews

During the validation period follow-up interviews were realized by the validation team to further analyze the correctness and accurateness of the information provided. A list of persons interviewed is given in Section 5 of this Validation Report.

### 3.6. Resolution of Outstanding Issues

All the issues raised as CLs and CARs during this validation activity, were resolved, during the written and oral communications between the Project Participant(s) and Re Carbon Ltd. validation team members. For the resolution of these non-conformities, the project participants modified the project design, rectified the PDD or provided adequate additional explanations or evidences that satisfy the concerns of the validation team members.

Concerns raised in the desk review, the on-site audit assessments and the follow up interviews and the responses provided for the raised concerns are documented in Annex 1 (Validation Protocol) to guarantee the transparency of the validation process.

The validation timeframe is given in detail in Table 3-5 below:

**Table 3-5: Validation Timeframe**

Action	Timeline
Desk Review	06/11/2018 – 11/11/2018
Site Visit	12/11/2018
Issuance of the Validation Protocol version 01	14/12/2018
Responses received	02/01/2019
Issuance of the Validation Protocol version 02	24/01/2019
Responses received	30/01/2019
Issuance of the Validation Protocol version 03	04/02/2019
Responses received	05/02/2019
Closing of all the CARs and CLs	06/02/2019
Issuance of the Validation Report version 01	08/02/2019
Submission of the documents for ITR process	11/02/2019
Submission for final approval	12/02/2019
Submission of final documents to the client	12/02/2019
Revision of the report based on GS initial comments	12/04/2019
Revision of the report based on GS 2 <sup>nd</sup> round comments	31/05/2019

Information or clarifications provided as a response to a CAR, CL or FAR could also lead to a new request. This can also be seen transparently in the Validation Protocol provided in Annex 1 of this Validation Report.

### 3.7. Internal Quality Control

As a final step of validation, the final documentation including the validation report and annexes have to undergo an internal quality control by Re Carbon Ltd. This quality control is also referred to as Independent Technical Review process.

The Independent Technical Review is performed by another Team Leader who hasn't involved in the validation activities of this project activity. When the Team Leader finalizes the Validation Report, the report is sent to Independent Technical Reviewer, at this stage not only the report but all the supporting documents like emission factor calculations, additionality justifications, relevant excel sheets etc. are reviewed.

Further CLs and CARs can be raised by the Independent Technical Reviewer during this review, to cover all the points that may need further clarification.

After all the CLs and CARs are closed, the validation report is reviewed and approved by the Team Leader, ITR and the Certification Manager/General Manager, and the request of registration is submitted to the Gold Standard Organization along with the relevant documents.

## **4. VALIDATION FINDINGS**

### **4.1. Baseline Scenario**

The project activity was earlier registered using the methodology AMS I.D., Version 17. The PDD (Version 08, dated 17/07/2013) has been updated in the revised PDD using the latest approved version of the methodology AMS I.D., Version 18. All the applicability conditions of the methodology have been justified appropriately in the revised PDD (Version 13, dated 30/05/2019).

The PP has also included “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” under the applicable tools list. The DOE has checked the application of the aforesaid tool and confirms that it has been correctly applied.

There has been no significant change in the relevant policies and circumstances, which would impact the baseline scenario since 17/07/2013 (date of earlier registered PDD) till date. The revised PDD takes into account all the relevant national and sectoral policies and circumstances that were applicable as on 30/05/2019. The discussion on the same has also been provided in the updated PDD.

The project activity is supplying power to the Turkish national grid. Thus, the baseline scenario continues to remain same as earlier, as follows: “The electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected power plants and by the addition of new generation sources”.

Further, the emission factor has been updated and fixed ex-ante for the 2<sup>nd</sup> renewable crediting period and the procedures as defined in the “Tool to calculate the emission factor for an electricity system”, version 07.0 have been followed. The emission factor in the earlier PDD was 0.613 tCO<sub>2</sub>/MWh with 0.75 and 0.25 weightage factor given to ‘operating margin’ and ‘build margin’, respectively. The emission factor in the updated PDD is 0.5676 tCO<sub>2</sub>/MWh with 0.75 and 0.25 weightage factor given to ‘operating margin’ and ‘build margin’, respectively. The data for calculation of emission factor has been taken from the Turkish Electricity Transmission Company (TEIAS) and Energy Market Regulatory Authority (EMRA). TEIAS is the national electricity transmission company, which makes available the official data of all power plants in Turkey. The decrease in the emission factor is an indicative that more renewable based power is getting added to the grid.

VER purchase agreements (VERPAs) dated as 05/07/2018 and 31/07/2018 and 14/06/2017 and 16/07/2018 dated VER sale invoices have been provided and checked by the VVB. Based on the provided evidences, it could be concluded that issued VERs give support to the ongoing financial sustainability of the project considering the loan payment of 15 MW registered project activity dated as 05/09/2018.

### **4.2. Application of the Selected Baseline and Monitoring Methodology or Standardized Baseline**

The project activity was earlier registered using the methodology AMS I.D., Version 17. The PDD has been updated using the latest approved version of the methodology AMS I.D., Version

18. The PPs have used the most recent version of the same methodology as the original registered PDD, i.e. the version that is valid at the time of submission of the revised PDD for the renewal of the crediting period. All the applicability conditions of the methodology have been justified appropriately in the revised PDD (Version 13, dated 30/05/2019). The project is a greenfield grid-connected renewable energy power generation project (wind power plant project) connected to the Turkish grid.

Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş., has installed and commissioned a 15 MW wind power plant with six Nordex N90 turbines, each having a capacity of 2.5 MW and with 80m hub height.

Subsequently, the installed capacity of the project has been increased to 20 MW with the revision. Two units have been added to the project as of 16/04/2015 and 02/08/2016, respectively. The added units are also from the same turbine supplier-Nordex N100 turbines with an installed capacity of 3.3 MW. However, the N100 turbines are operated as 2.5 MW due to power limitation according to the generation license. However, as the Gold Standard rules require the capacity addition approval to be submitted within one year of its start date i.e. by 02/08/2017 which did not happen, therefore, the capacity addition component is not eligible anymore under Gold Standard and so, the renewal of the crediting period is without the capacity addition component. Gold Standard registered capacity of the project (15 MW) is considered and the electricity generation and the emission reduction of the added units hadn't been included for the renewal of the crediting period.

### **4.3. Monitoring**

The monitoring plan has been revised in the updated PDD as per the applied methodology AMS I.D., Version 18. The emission factor of the grid has been fixed ex-ante and will not be updated during the 2<sup>nd</sup> renewable crediting period.

The only monitoring parameter is the amount of net electricity fed into the grid by Boreas-1 Enez Wind Power Plant. This value will be monitored continuously by redundant metering devices, one is the main meter at the substation, which provides the data for the monthly invoicing to TEİAŞ.

There has been capacity addition in the project, but this hasn't been considered. Apportioning approach based on capacity has been applied for the measurement of electricity generation value for ER calculations from the project activity wind turbines. The DOE has checked the energy assessment reports of the 15 MW project and the additional capacity for the estimated energy generation values and thereafter the apportioning based on capacity has been accepted as found conservative.

### **4.4. Calculation of Emission Factor and Emission Reductions**

The emission reduction from the project activity throughout the 2<sup>nd</sup> renewable crediting period of 7 years would continue to happen if the project operates without getting replaced during the whole crediting period. The operational lifetime of the project stated in the earlier registered PDD was 49 years and the start date was 26/01/2009. The on-site inspection and review of the records (for e.g. turbine maintenance records) suggest that the key project

equipment is maintained properly. Therefore, the project is expected to operate throughout the 2<sup>nd</sup> crediting period of 7 years and result in emission reductions.

The emission reduction calculation estimations have been revised in the updated PDD as per the latest approved version of the methodology AMS I.D., Version 18. The emission factor of the grid has been updated and the emission reduction estimates are revised. The baseline emissions are calculated based on the emission factor multiplied by the expected net electricity generation, which amounts to 52.74 GWh per annum in line with the micro-siting report of the project activity.

For the calculation of the emission factor of Turkish Grid, “Tool to Calculate the Emission Factor for an Electricity System, version 7.0”, has been used.

Option A: A combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) is calculated according to the procedures prescribed in the ‘Tool to calculate the emission factor for an electricity system’ (version 7.0). The steps of the tool are implemented as below:

**Step 1:** The interconnected grid system is operated incessantly without electricity pricing differences throughout the regions. Therefore, the relevant electric power system is defined as the national grid system of Turkey.

**Step 2:** Only grid power plants are included in the calculation (Due to the lack of data availability, Option I is chosen and only grid power plants are included in the calculation).

**Step 3:** E<sub>grid</sub>, OM,  $\gamma$  is calculated as the generation-weighted average CO<sub>2</sub> emissions per unit net electricity generation (tCO<sub>2</sub>/MWh) of all the generating plants serving the system, excluding low-cost/must-run power plants. As electricity generation from solar and low-cost biomass facilities is insignificant and there are no nuclear plants in Turkey, the only low cost /must run plants considered are hydroelectric, wind and geothermal facilities. The calculation of the operating margin emission factor is based on Simple OM method, since the share of low-cost / must-run sources is below 50% in recent 5 years (2013-2017).

Under this option, the ex-ante approach is selected. A 3-year generation-weighted average, based on the most recent data (2015-2017) available at the time of submission of the PDD to the DOE for the validation.

**Step 4:** E<sub>grid</sub>, OM,  $\gamma$  has been calculated using option B which is based on the total net electricity generation of all power plants serving the system and the fuel types and total fuel consumption of the project electricity system.

For the calculation of the Simple OM, the amount of fuel consumption (F<sub>ci</sub>,  $\gamma$ ) and heating values of fuels are taken from website of TEIAS, the official source of related data. The NCV of the fuels consumed have been calculated using data from the TEIAS web page. The emission factors required for calculation of CO<sub>2</sub> emission factor have been obtained through IPCC 2006 guidelines for GHG inventories for fuels. Net electricity generated and supplied to the grid by thermal plants has been calculated using data obtained from the TEIAS web page. The OM is calculated as 0.6604 tCO<sub>2</sub>/MWh.

**Step 5:** Option-1 is chosen to calculate the build margin emission factor. The build margin emission factor is based on the most recent information available on units already built at the

time of submission of the request for renewal of the crediting period to the DOE. SET $\geq$ 20% is selected as (SET<sub>sample</sub>: 16,491.85 MWe) because the set of power units comprises the larger annual electricity generation than SET5 units (the set of five power units, excluding power units registered as CDM project activities, that started to supply electricity to the grid most recently).

The build margin emission factor is calculated as the generation-weighted average emission factor of a sample of power plants “m” for a specific year. There isn’t any data available for annual electricity production of each power plant belonging to years 2015, 2016 and 2017. The latest data available for the annual energy production for specific power station belongs to year 2012. To update the BM, the only data that can be used to estimate the annual production is the power generation capacity and the calculations have been handled by the PP as if every power plant had operated with full capacity all around the year.

**Step 6:** The combined margin emission factor has been calculated using the default values of 0.75 and 0.25 for OM and BM, respectively and it is calculated as 0.5676 tCO<sub>2</sub>/MWh.

There are no project or leakage emissions associated with wind power projects. Thus, the emission reductions correspond to the baseline emissions. The project is expected to result in an average emission reduction of 29,948 tCO<sub>2</sub>/year during the second renewable crediting period.

#### **4.5. Sampling Plan**

N/A

#### **4.6. Local Stakeholder Consultation**

For the second crediting period, during the site visit conducted on 12/11/2018, there hadn’t been any complaints or negative comments received from the interviewed local stakeholders. Thus, another meeting has not been arranged by the PP.

#### **4.7. Sustainable Development Assessment**

Sustainable Development Assessment has been conducted with respect to the validity of the updated baseline. The sustainable development (SD) indicators have been re-discussed as in Table 4-1 below:

**Table 4-1: Sustainable Development (SD) indicators**

No.	Indicator	Assessment in the revised PDD
1	Air quality	The indicator is stated to be monitored during the construction phase.
2	Water quality and quantity	The sewage is transferred by sewage truck to local municipality sewage system as per the “Regulation on Control of Water Contamination”, so this indicator will not be

No.	Indicator	Assessment in the revised PDD
		monitored in the 2 <sup>nd</sup> crediting period by the PP.
3	Soil condition	The indicator is stated to be monitored during the construction phase, so this indicator will not be monitored in the 2 <sup>nd</sup> crediting period by the PP.
4	Other pollutants (Noise level)	During the site visit, interviews with stakeholders were conducted. No complaint about noise level was received from the interviewed local stakeholders, so this indicator will not be monitored in the 2 <sup>nd</sup> crediting period by the PP.
5	Other pollutants (Solid waste)	The indicator is stated to be monitored during the construction phase.
6	Biodiversity	The indicator is stated to be monitored during at the end of the first and second year of operation, so this indicator will not be monitored in the 2 <sup>nd</sup> crediting period by the PP.
7	Quality of employment	Number of trainings (Through the attendance records or training certificates during each monitoring period)
8	Livelihood of the poor	The relevant contributions and donations to the local community have been completed by the PP during the 1 <sup>st</sup> crediting period, so this indicator will not be monitored in the 2 <sup>nd</sup> crediting period by the PP.
9	Access to affordable and clean energy services	Annul net electricity generation (Through the electricity meters)
10	Human and institutional capacity (Quantitative employment)	Number of employment by the project (Through SGK records of employees during each monitoring period)

Therefore, revised SD monitoring plan is as follows in Table 4-2 within SDG 7 (Affordable and clean energy), SDG 8 (Decent work and economic growth) and SDG 13 (Climate action) impacts:

**Table 4-2: Assessment of the revised SD monitoring plan**

Relevant SDG	Relevant SDG Indicator and Target and Indicator	Relevant Parameter	Measurement Methods
SDG-7	Target 7.2. By 2030, increase	EG <sub>PJ, y, facility</sub>	The net electricity

Relevant SDG	Relevant SDG Indicator and Target and Indicator	Relevant Parameter	Measurement Methods
Affordable and Clean Energy	substantially the share of renewable energy in the global energy mix Indicator 7.2.1. Renewable energy share in the total final energy consumption	(MWh/yr)	is measured continuously by a power meter at the grid interface and recorded monthly. EPIAS records are the source of the exact electricity generation of the project and the imports from the grid. The quantity of net electricity delivered to the grid is cross checked with the meter reading records (OSF forms-OSOS) which are provided to the company by TEIAS.
SDG-8 Decent Work and Economic Growth	Target 8.5. By 2030, achieve full and productive employment and decent work for all women and men Indicator 8.5.2. Unemployment rate, by sex, age and persons with disabilities	Number of employment	Through social Security System (SGK) records
SDG-8 Decent Work and Economic Growth	Target 8.8. Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment Indicator 8.8.1. Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status	Number of trainings	Through training attendance records or training certificates
SDG 13 -	Target 13.3. Improve education,	ERy (tCO2/y)	Emission

Relevant SDG	Relevant SDG Indicator and Target and Indicator	Relevant Parameter	Measurement Methods
Climate Action	awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning  Indicator 13.3.2. Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions		reductions will be calculated as considering the EPIAS records for the net electricity generated and the emission factor for the grid (0.5676 tCO <sub>2</sub> /MWh)

## 5. LIST OF PERSONS INTERVIEWED

The list of people who were interviewed during the validation period is given in the Table 5-1 below:

**Table 5-1:** List of persons interviewed

Reference Number	Means of Interview <sup>1</sup>	Full Name	Title	Organization
I01	SV	Ersun Şılak	Operation Manager	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.
I02	SV	Esin Ertaş	Operation Technician	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.
I03	SV	Orhan Başaran	Cook (Local)	Boreas Enerji Üretim Sistemleri San. ve Tic. A.Ş.
I04	SV	Aydın Öztürk	Service Technician	Nordex A.Ş.
I05	SV	Tarık Meriç	Service Technician	Nordex A.Ş.
I06	SV	Aydın Beyaz	Security Staff (Local)	Tepe Güvenlik A.Ş.
I07	SV	Sıla Duran	Consultant	Sekans Danışmanlık Ltd.
I08	SV	Harun Karakaya	Villager	Hisarlı Village
I09	SV	Enbia Nas	Villager	Hisarlı Village
I10	SV	Emin Nas	Villager	Hisarlı Village
I11	SV	Bekir Aydoğdu	Villager	Hisarlı Village

The local stakeholders stated in the Table 5-1 above were interviewed about the following issues and there hadn't been any complaint by the interviewed local stakeholders during the site visit:

- Noise due to the project activity
- Sufficiency of local employment
- Donations by the PP
- Waste management practices implemented by PP

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<sup>1</sup> SV: Site visit; T: Telephone; E: E-mail

It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local villagers during the site visit. The document showing the contact details of the relevant person within PP with the signature of Hisarlı Village Mukhtar (Village Head) dated as 08/11/2018 was also provided to DOE.

## 6. LIST OF DOCUMENTS REVIEWED

The list of the documents which were reviewed during the validation period is given in the Table 6-1 below:

**Table 6-1:** List of documents reviewed

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D01	Registered PDD of Boreas Wind Power Plant	08	17/07/2013
D02	Registered GS Passport of Boreas Wind Power Plant	06	-
D03	AMS I.D.	18.0	-
D04	CP Renewal Validation Service Agreement	-	31/10/2018
D05	Revised PDD for CP Renewal	09	26/11/2018
D06	Revised PDD for CP Renewal	10	02/01/2019
D07	Revised PDD for CP Renewal	11	30/01/2019
D08	Monitoring Report	04	05/02/2019
D09	ER Calculation Excel Sheet	01	26/11/2018
D10	ER Calculation Excel Sheet	02	02/01/2019
D11	ER Calculation Excel Sheet	03	03/04/2019
D12	ER Calculation Excel Sheet	04	30/05/2019
D13	Tool: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period	03.1	-
D14	CDM Validation and Verification Standard For Project Activities	2.0	29/11/2018
D15	CDM Project Standard For Project Activities	2.0	29/11/2018
D16	CDM Project Cycle Procedure For Project Activities	2.0	29/11/2018
D17	Gold Standard for Global Goals	1.0	-
D18	Final Issuance Review of Previous Verification	-	06/05/2014
D19	Initial CP Final Validation Report	03	21/05/2013
D20	Initial Monitoring Period Verification Report	05	26/03/2014
D21	EIA Decision on Capacity Increase	-	23/12/2013
D22	Meter Initial Calibration Records	-	26/11/2015
D23	Meter Test Reports	-	17/12/2016 02/12/2017
D24	Training Records and Certificates	-	09/09/2013 29-30/05/2017 14/07/2017

Document Number	Document Name	Version	Date (dd/mm/yyyy)
			29/12/2017 10/05/2018 16/05/2018
D25	Social Security Records for PP Site Employees	-	-
D26	Wastewater Transfer and Disposal Records	-	17/07/2016
D27	Hazardous Waste Disposal Records	-	23/05/2016 01/08/2017 09/08/2018
D28	Environmental Noise Assessment Report	-	08/04/2010
D29	Electricity Generation Initial Licence	-	03/05/2007
D30	Electricity Generation Revised Licence	-	26/06/2013
D31	Donation Records and Letter by the School Manager	-	02/03/2017 07/04/2017 05/05/2017 06/06/2017 24/10/2017 01/11/2017 06/12/2017 09/01/2018 05/02/2018 06/03/2018 04/04/2018 26/10/2018
D32	Letter by the Village Heads (Mukhtars) (About the Contact Details of PP Relevant Staff In case of Any Complaint)	-	08/11/2018
D33	Micrositing Report	1.1-200901	01/2009
D34	VER Purchase Agreements (VERPAs)	-	05/07/2018 31/07/2018
D35	VER Sale Invoices	-	14/06/2017 16/07/2018
D36	Revised PDD for CP Renewal	12	03/04/2019
D37	Revised PDD for CP Renewal	13	30/05/2019
D38	Site Visit Photos	-	12/11/2018

## **7. VALIDATION TEAM AND ITR COMPETENCE**

Anıl SÖYLER, Bsc. in Environmental Engineering, has completed his Bachelor degree in Middle East Technical University, Turkey. His Master study in the same field is at thesis stage and has 9 years of professional experience in environmental management, monitoring and auditing, waste and waste water management, environmental and social impact assessment, control of greenhouse gas emissions, environmental reports, and quality management systems. He has been involved in both national and international projects supported by IFC and World Bank. He has been working as Certification Manager and GS and VCS projects Team Leader in the context of Re Carbon.

Sukanta DAS, has done M. SC in Physics and M. Tech in Energy technology from Tezpur Central University in India. He is a certified lead auditor for ISO 14001 EMS LA. He has more than five years of work experience at TUV NoRD under various categories of projects stating from Renewable to waste to supercritical projects. He was JI/CDM Lead Assessor in TUV NoRD and was involved in more than 80 CDM validation and verifications activities and Gold Standard, VER projects as a team leader/technical reviewer / validator / verifier covering the sectoral scope 1 technical area 1.2. He has been working as a contracted team leader, technical reviewer and renewable energy expert in the context of Re Carbon.

## 7.1. Appointment Certificates

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Bağlıs Plaza Muhemin Yazıcıoğlu Cad. 43/11 TR / 06520 Balgat-Ankara Tel.: 0390-312-287 5122 Fax: 0390-312-287 3373	<b>Certificate of Appointment</b>	 re-carbon quality in carbon auditing
	Carbon Division	Page: 1/1

This Certificate of Appointment is given to **Mr. Anil SÖYLER** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
05-05-2017	05-05-2017	N/A	N/A	05-05-2017

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
05-05-2017	05-05-2017	05-05-2017	N/A	05-05-2017

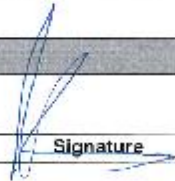
Speciality	Regional expertise	Financial expertise	Technical area
N/A	Turkey, China and Saudi Arabia	N/A	1.2 and 13.1


Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the person's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

APPOINTMENT IS GRANTED BY			
Mr. Christian JOHANNES	General Manager	05-05-2017	
Name	Position	Date	

Re Carbon Gőazalın Denetim ve Belgelendirme Ltd. Şti. Baęlıs Plaza Muhsin Yazıcıođlu Cad. 43/11 TR / 06520 Balęat-Ankara Tel: 0090-312-267 5122 Fax: 0090-312-267 3373	<b>Certificate of Appointment</b>	 Page: 1/1
	Carbon Division	

This Certificate of Appointment is given to **Mr. Sukanta DAS** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
05-05-2017	05-05-2017	05-05-2017	05-05-2017	05-05-2017

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
05-05-2017	05-05-2017	05-05-2017	05-05-2017	05-05-2017

Speciality	Regional expertise	Financial expertise	Technical area
N/A	Saudi Arabia, Morocco and India	N/A	1.1, 1.2 & 13.1

Within the scope and in strict accordance to the appointment indicated above, the bearer can:

1. Participate in the assessments conducted by Re Carbon Ltd.
2. Take the roles within and outside of the assessment team
3. Bring specific expertise to the assessments

This Certificate of Appointment is valid unless there are changes in the related requirements for the qualification and appointment and/or the personnel's work agreement is terminated and there is no defined validity period for this Certificate.

However, The Certificate may be updated, suspended or cancelled at any time, as a result of the performance assessments and/or other reasons as defined above.

APPOINTMENT IS GRANTED BY			
Mr. Anıl SÖYLER	Certification Manager	05-05-2017	 Signature
Name	Position	Date	



## 8. VALIDATION OPINION

Re Carbon Ltd. has performed the 2<sup>nd</sup> crediting period validation of the “Boreas-1 Enez Wind Power Plant” in “Turkey” between 05/11/2018 and 31/05/2019. The validation was performed on the basis of UNFCCC criteria for the CDM, Gold Standard and Host Party criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The validation has been performed by a validation team consisting of “Anıl Söyler as team leader and Sukanta Das as ITR”, and the project activity was checked against the applicable rules and regulations of CDM including CDM Validation and Verification Standard for project activities, version 2.0, CDM Project Standard for project activities, version 2.0, and CDM Project Cycle Procedure for project activities, version 2.0, and GS for Global Goals version 1.0.

Re Carbon Ltd. hereby confirms that the proposed project activity “Boreas-1 Enez Wind Power Plant” in Turkey, has applied all relevant EB-guidance as the selected baseline and monitoring methodologies and the associated methodological tools have been applied correctly. Total emission reductions from the project are estimated to be around 29,948 tCO<sub>2</sub>e per year over the 2<sup>nd</sup> crediting period. The emission reduction forecast has been checked and it is deemed likely that the stated amount is achieved given that the underlying assumptions do not change.

As a result, the validation team assigned by the Re Carbon Ltd. concludes that the proposed Project Activity “Boreas-1 Enez Wind Power Plant” in Turkey, as described in the PDD (version 13 dated as 30/05/2019)

- meets all relevant Gold Standard and Host Country criteria;
- meets all relevant requirements of the UNFCCC for CDM project activities [including Article 12 of the Kyoto Protocol, the Modalities and Procedures for CDM (Marrakesh Accords) and the subsequent decisions and guidance by the COP/MOP and the CDM Executive Board];
- applies correctly the baseline and monitoring methodology AMS I.D., Version 18.0;
- is likely to achieve estimated emission reductions;

Therefore, Re Carbon Ltd. requests the renewal of crediting period of the project activity.



Anıl SÖYLER  
Team Leader  
31/05/2019



Sukanta DAS  
ITR  
31/05/2019



Anıl SÖYLER  
Certification Manager  
31/05/2019

## **ANNEX 1: VALIDATION PROTOCOL**

### **Table 1 – CDM Renewal of Crediting Period Validation Requirements**

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>Cover Page-Key Project Information</b>					
1. Has the following information been indicated in the cover page of the PDD?	GS-PDD-FORM Ver. 1.1	DR	Please see in below.	OK	OK
1.1. Title of the project activity	GS-PDD-FORM Ver. 1.1	DR	Yes, the title is available as “Boreas-1 Enez Wind Power Plant”.	OK	OK
1.2. Brief description of the project	GS-PDD-FORM Ver. 1.1	DR	The brief description of the project is available.	OK	OK
1.3. Implementation date	GS-PDD-FORM Ver. 1.1	DR	The implementation date is available but the documentary evidence is to be provided to confirm the implementation date stated as 09/04/2010.	CL-1	OK
1.4. Expected duration of the project	GS-PDD-FORM Ver. 1.1	DR	Yes, it is available as 49 years and the generation licence is provided to DOE.	OK	OK
1.5. Project developer	GS-PDD-FORM Ver. 1.1	DR	Boreas Enerji Üretim Sistemleri Sanayi ve Ticaret A.Ş. is stated as the project developer.	OK	OK
1.6. Project representative	GS-PDD-FORM Ver. 1.1	DR	Sila Duran is stated as the project representative.	OK	OK
1.7. Project participants and any communities involved	GS-PDD-FORM Ver. 1.1	DR	Project participants haven’t been included in the cover page.	CAR-1	OK
1.8. Version number and date of the PDD	GS-PDD-FORM Ver. 1.1	DR	The version number and date of the PDD for the renewal of crediting period have been indicated as version 01 and 26/11/2018, respectively.	OK	OK
1.9. Host country and location of the project	GS-PDD-FORM	DR	Host country and project location have been indicated as Turkey and Enez / Edirne, respectively.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Ver. 1.1				
1.10. Certification Pathway (Project Certification/Impact Statements & Products Activity Requirements applied: (mark GS4GG if none relevant))	GS-PDD-FORM Ver. 1.1	DR	Yes, it has been indicated as project certification.	OK	OK
1.11. Methodologies applied	GS-PDD-FORM Ver. 1.1	DR	It has been indicated as AMS I.D. version 18.0.	OK	OK
1.12. Product requirements applied	GS-PDD-FORM Ver. 1.1	DR	Yes, it has been indicated as GS4GG.	OK	OK
1.13. Regular or retroactive	GS-PDD-FORM Ver. 1.1	DR	Yes, it has been indicated as regular.	OK	OK
1.14. SDG Impacts	GS-PDD-FORM Ver. 1.1	DR	Yes, it has been indicated as SDG 7, SDG 11 and SDG 13.	OK	OK
1.15. Estimated amount of SDG impact certified	GS-PDD-FORM Ver. 1.1	DR	29,514 tCO2e is indicated in the first submission.	OK	OK
<b>A. Description of Project</b>		<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>			
<b>A.1. Purpose and general description of project</b>		<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>			
<b>A.2. Eligibility of the project under Gold Standard</b>		<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>			

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
		<b>crediting period.</b>			
<b>A.3. Legal ownership of products generated by the project</b>					
A.3.1. Is it justified that the project owner has full and uncontested legal ownership of the products that are generated under Gold Standard Certification and has legal rights concerning changes in use of resources required to service the Project for e.g water rights, where applicable?	GS-PDD-FORM Ver. 1.1	DR	The generation licence is provided and the project is already registered within Gold Standard.	OK	OK
<b>A.4. Location of the project activity</b>	<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>				
<b>A.5. Technologies and/or measures</b>	<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>				
<b>A.6. Scale of the project</b>					
A.6.1. Has the scale of the project defined (micro scale, small scale or others)?	GS-PDD-FORM Ver. 1.1	DR	Yes, it has been indicated as small scale and the project is already registered within Gold Standard.	OK	OK
<b>A.7. Funding source of project</b>	<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>				

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>A.8. Assessment that Project Complies with 'Gender Sensitive' Requirements</b>					
A.8.1. Has the evidence been provided that the project concept and design cover the overall societal context from a gender perspective?	GS-PDD-FORM Ver. 1.1	DR	The grid connected wind power plant project is not gender sensitive project and does not adversely impact women or men.	OK	OK
A.8.2. Does the project reflect the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
A.8.3. Has it been explained how the project align with existing country policies, strategies and best practices?	GS-PDD-FORM Ver. 1.1	DR	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.	OK	OK
A.8.4. Has it been explained how the project address the questions raised in the Gold Standard Safeguarding Principles & Requirements document?	GS-PDD-FORM Ver. 1.1	DR	Yes, such questions and replies are available in the PDD.	OK	OK
A.8.5. Does the project apply the Gold Standard Stakeholder Consultation & Engagement Procedure, Requirements & Guidelines?	GS-PDD-FORM Ver. 1.1	DR	Yes, this has been applied.	OK	OK
<b>B. Application of Selected Approved Gold Standard Methodology</b>					

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>B.1. Reference of approved methodology</b>					
B.1.1. Are the references including the number, title, and the version of the selected methodology(ies) given in the PDD?	GS-PDD-FORM Ver. 1.1	DR	AMS I.D. version 18 has been used, it being the most recent version of the methodology, at the time of PDD submission for validation.	OK	OK
B.1.2. Are the references including the number, title, and the version of any tools and other methodologies to which the selected methodology(ies) refer given in the PDD?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §53	DR	The versions of the referred tools aren't the most recent ones.	CAR-2	OK
<b>B.2. Applicability of methodology</b>					
B.2.1. Has the PPs justified the choice of the selected methodology(ies), if applicable, by showing that the project activity meets each applicability condition of the methodology(ies)?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §54 EB93 Report Annex 5 §67	DR	Yes	OK	OK
B.2.2. Does the project activity meet each of the applicability conditions of the tools or other methodology components referred to in the applied methodology?	EB93 Report Annex 5 §67	DR	Yes	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.2.3. Has the PPs explained the documentation that has been used and provided the references to applicability of methodology or included the documentation in Appendix 3 of the PDD?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
<b>AMS-I.D.</b>					
B.2.4. Does the proposed project activity comprises renewable energy units such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass, supplying one of the following?	AMS I.D. Version 18.0 §2 §4 §7	DR	Yes, the project is already operating and registered wind farm project connected to the Turkish grid.	OK	OK
B.2.4.1. Electricity to a national or a regional grid, or	AMS I.D. Version 18.0 §2 §4 §7	DR	Yes, the project is connected to the Turkish grid.	OK	OK
B.2.4.2. Electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling?	AMS I.D. Version 18.0 §2 §4 §7	DR	Yes	OK	OK
B.2.4.3. Does the new unit (proposed project activity) have both renewable and non-renewable components?	AMS I.D. Version 18.0 §6 §11	DR	No, there hasn't been any non-renewable component.	OK	OK
B.2.5. Does the new unit co-fires fossil fuel?	AMS I.D. Version 18.0	DR	No	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	§7				
B.2.6. Does the proposed project activity involve the addition of renewable energy generation units at an existing renewable power generation facility?	AMS I.D. Version 18.0 §8	DR	No	OK	OK
B.2.7. Is the project activity a retrofit, rehabilitation or a replacement?	AMS I.D. Version 18.0 §9	DR	No	OK	OK
B.2.8. If the proposed project activity is a hydro power plant project, does one of the following conditions conform to the proposed project activity?	AMS I.D. Version 18.0 §5	DR	No	OK	OK
B.2.8.1. Is the proposed project activity implemented in an existing reservoir, with no change in the volume of reservoir?	AMS I.D. Version 18.0 §5	DR	N/A	OK	OK
B.2.8.2. Is the project activity implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity, as per the definitions given in the project emissions section, is greater than 4 W/m <sup>2</sup> ?	AMS I.D. Version 18.0 §5	DR	N/A	OK	OK
B.2.8.3. Is the project activity results in new reservoirs and the power density of the power plant, as per the definitions given in the project emissions section, is greater than 4 W/m <sup>2</sup> ?	AMS I.D. Version 18.0 §5	DR	N/A	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>B.3. Project boundary</b>					
B.3.1. Has the PP described the emission sources and GHGs included in the project boundary for the purpose of calculating project emissions and baseline emissions, in the tabular format?	GS-PDD-FORM Ver. 1.1	DR	Yes, this is available in the PDD.	OK	OK
B.3.2. Has the PP presented a flow diagram of the project boundary, physically delineating the project activity, based on the description provided in section A.5 of the PDD?	GS-PDD-FORM Ver. 1.1	DR	The flow diagram is available in the PDD but please include all figure and table numbers consistently in the PDD.	CAR-3	OK
B.3.3. Has the PP included in the flow diagram the equipment, systems and flows of mass and energy described in section A.5 of the PDD, and indicated in the diagram the emission sources and GHGs included in the project boundary and the data and parameters to be monitored?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-3.	CAR-3	OK
B.3.4. Does the selected methodology allow the PPs to choose whether a source or gas is to be included in the project boundary?	EB93 Report Annex 4 §57	DR	Yes	OK	OK
B.3.5. If the selected methodology allows the project participants to choose whether a source or gas is to be included in the project boundary, do the project participants explain and justify their choices?	EB93 Report Annex 4 §57	DR	Yes	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.3.6. Have all sources and GHGs necessary for the calculation of emissions been included within the project boundary?	EB93 Report Annex 5 §69	DR	Yes	OK	OK
B.3.7. Does the PDD correctly describe the project boundary and the physical delineation of the proposed CDM project activity?	EB93 Report Annex 4 §56	DR	Yes	OK	OK
B.3.8. Has the selected methodology been correctly applied with respect to project boundary?	EB93 Report Annex 5 §63a	DR	Please see in below.	OK	OK
<b>AMS-I.D.</b>					
B.3.9. Is the spatial extent of the project boundary identified correctly?	AMS I.D. Version 18.0 §18	DR	Yes, this has been available as project power plant and all power plants connected physically to Turkish grid.	OK	OK
<b>B.4. Establishment and description of the baseline scenario</b>					
<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>					
B.4.1. Does the approved methodology that is selected by the proposed GS project prescribe the baseline scenario and hence no further analysis is required?	EB93 Report Annex 5 §94 EB93 Report	DR	As per the applied methodology AMS-I.D, version 18, the baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid. However, there is no need to re-assess the baseline scenario at the time	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Annex 4 §48 §49		of crediting period renewal.		
B.4.2. Does the PDD identify the baseline for the proposed GS project, defined as the scenario that reasonably represents the anthropogenic emissions by sources of GHGs that would occur in the absence of the proposed GS project?	EB93 Report Annex 5 §75 EB93 Report Annex 4 §60	DR	Yes, but please correct the baseline scenario in line with the relevant applicable version of the methodology.	CAR-4	OK
B.4.3. If the methodology requires use of the tools to identify the baseline scenario, have all those been applied?	EB93 Report Annex 5 §77	DR	Please see CAR-2.	CAR-2	OK
B.4.4. Are there relevant national and/or sectoral policies to identify the baseline scenario?	EB93 Report Annex 5 §81 EB93 Report Annex 4 §63	DR	N/A	OK	OK
B.4.5. If there are relevant national and/or sectoral policies to identify the baseline scenario, have those been considered correctly in the PDD?	EB93 Report Annex 5 §83d	DR	N/A	OK	OK
B.4.6. Are there relevant circumstances to identify the baseline scenario?	EB93 Report	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Annex 5 §81				
B.4.7. Does the methodology require several alternative scenarios to be considered in the identification of the most reasonable baseline scenario?	EB93 Report Annex 5 §78	DR	N/A	OK	OK
B.4.8. If the methodology requires several alternative scenarios to be considered in the identification of the most reasonable baseline scenario, are all credible scenarios that are in the PDD and are supplementary to those required by the methodology reasonable in the context of the proposed GS project?	EB93 Report Annex 5 §78	DR	N/A	OK	OK
B.4.9. If the proposed project activity includes several different facilities, technologies, outputs or services, do the alternative scenarios for each of them be identified separately?	EB70 Report Annex 8	DR	N/A	OK	OK
B.4.10. If the alternative scenarios for each of them be identified separately, are the realistic combinations of these be considered as possible alternative scenarios to the proposed project activity?	EB70 Report Annex 8	DR	N/A	OK	OK
B.4.11. Does the list of alternative scenarios given in the PDD include the following?	EB93 Report Annex 5 §93	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.4.11.1.The project activity is undertaken without being registered as a GS project	EB93 Report Annex 5 §93a	DR	N/A	OK	OK
B.4.11.2.All plausible alternatives	EB93 Report Annex 5 §93b	DR	N/A	OK	OK
B.4.11.3.Comply with all applicable and enforced legislation	EB93 Report Annex 5 §93c	DR	N/A	OK	OK
B.4.12. Has the PP explained how the baseline scenario is established in accordance with the selected methodology(ies)?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §62	DR	Yes	OK	OK
B.4.13. Where the procedure in the selected methodology(ies) involves several steps, has the PPs described how each step is applied and transparently documented the outcome of each step?	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.4.14. Has the PP provided and explained all data used to establish the baseline scenario (variables, parameters, data sources, etc.)?	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.4.15. Is the identified baseline scenario reasonably supported by correct and verifiable references, assumptions, calculations and rationales?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 5 §79	DR	Yes	OK	OK
B.4.16. Has a transparent description of the baseline scenario been provided including the technology(ies) that would be employed and/or the activities that would take place in the absence of the project activity?	CDM-PDD-FORM version 8.0 EB93 Report Annex 5 §80	DR	N/A	OK	OK
B.4.17. Has the selected methodology been correctly applied with respect to baseline identification?	EB93 Report Annex 5 §63b	DR	Yes	OK	OK
<b>AMS I.D.</b>					
B.4.18. If the project activity is greenfield power plant, is the baseline scenario identified as “the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid?”	AMS I.D. Version 18.0 §19	DR	Please see CAR-4.	CAR-4	OK
B.4.19. If the project activity involves retrofits,	AMS I.D.	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
rehabilitations or replacements of an existing facility, is baseline scenario identified appropriately in accordance with AMS I.D.?	Version 18.0 §20				
B.4.20. Have the PPs demonstrated the remaining lifetime of the equipment replaced according to the requirements described in the general guidelines to SSC CDM methodologies?	AMS I.D. Version 18.0 §21	DR	N/A	OK	OK
B.4.21. If the project activity involves capacity addition to existing grid-connected renewable energy power plant/unit,, is baseline scenario identified appropriately in accordance with AMS I.D.?	AMS I.D. Version 18.0 §21	DR	N/A	OK	OK
B.4.22. Have the PPs explained and documented the quantities and types of biomass and the biomass to fossil fuel ratio (in case of co-fired system) to be used during the crediting period in the PDD?	AMS I.D. Version 18.0 §44	DR	N/A	OK	OK
<b>B.5. Demonstration of additionality</b>	<b>This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.</b>				
<b>B.6. Sustainable Development Goals (SDG) outcomes</b>					

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>B.6.1. Relevant target for each of the three SDGs</b>					
B.6.1.1. Has the PPs specified the relevant SDG target for each of three SDGs addressed by the project?	GS-PDD-FORM Ver. 1.1	DR	The project refers to SDG 7: Affordable and Clean Energy (T: 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix); SDG 8: Decent Work and Economic Growth (T: 8.5. By 2030, achieve full and productive employment and decent work for all women and men and T: 8.8. Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment) and SDG 13: Climate Action (T:13.3. Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning). Please clarify the relation of project with the indicator 8.8.2.	CL-2	OK
<b>B.6.2. Explanation of methodological choices/approaches for estimating the SDG outcome</b>					
B.6.2.1. Has the PPs explained how the methods or methodological steps in the selected methodology(ies), for calculating baseline and project outcomes are applied?	GS-PDD-FORM Ver. 1.1	DR	Please clarify if the most recent data is used and please explain why 2017 data isn't used for the grid emission factor calculation.	CAR-5	OK
B.6.2.1.1. Baseline	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-5.	CAR-5	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.2.1.2. Project	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.2.1.3. Leakage	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.2.1.4. Net benefit	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-5.	CAR-5	OK
B.6.2.2. Has the PPs clearly stated which equations will be used in calculating net benefit?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-5.	CAR-5	OK
B.6.2.3. Has the PPs explained and justified all relevant methodological choices including the following?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §57	DR	N/A	OK	OK
B.6.2.3.1. Where the methodology(ies) include different scenarios or cases, indicate and justify which scenario or case applies to the project activity	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §57	DR	N/A	OK	OK
B.6.2.3.2. Where the methodology(ies) provide	GS-PDD-FORM	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
different options to choose from , indicate and justify which option is chosen for the project activity	Ver. 1.1 EB93 Report Annex 4 §57				
B.6.2.3.3. Where the methodology(ies) allow different default values, indicate and justify which of the default values have been chosen for the project activity.	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
<b>B.6.3. Data and parameters fixed ex ante for monitoring contribution to each of the three SDGs</b>					
B.6.3.1. Have the PPs included a compilation of information on the data and parameters that are <b>not monitored</b> during the crediting period but are determined before the registration and remain fixed throughout the crediting period under section B.6.3 of the PDD?	GS-PDD-FORM Ver. 1.1	DR	a) Please correct the typos (like indicator instead of indicator). b) Please include the relevant targets for each indicator instead of the terminology of following target. c) Please include the relevant target in the purpose of data row of the tabular format in the Section B.6.3 of the PDD.	CAR-6	OK
B.6.3.2. Are the data that are calculated with the equations provided in the selected methodology(ies) or default values specified in the methodology(ies) included in the compilation?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.3.3. Are the following information regarding the data and parameters specified correctly?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.3.1. Relevant SDG indicator	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.3.2. Data/parameter	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.3.3. Data/parameter unit	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.3.4. Description of the data/parameter	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.3.5. Source of data	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.3.6. Values applied to data/parameter	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.4. Where applied values have been measured, are the following included in the PDD?	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.4.1. The equipment used	GS-PDD-FORM	DR	N/A	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Ver. 1.1				
B.6.3.4.2. The standards used	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.4.3. Responsible person/entity having undertaken the measurement	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.4.4. The date of measurement(s)	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.4.5. The frequency of measurement(s)	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.4.6. The measurement results	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.5. Has the purpose of data been chosen as one of the following for each data/parameter?	GS-PDD-FORM Ver. 1.1	DR	The purpose of data is available but please see CAR-6.	CAR-6	OK
B.6.3.5.1. Calculation of baseline;	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-6.	CAR-6	OK
B.6.3.5.2. Calculation of project;	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.6.3.5.3. Calculation of leakage.	GS-PDD-FORM	DR	N/A	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Ver. 1.1				
<b>B.6.4. Ex ante estimation of outcomes linked to each of the three SDGs</b>					
B.6.4.1. Do the steps taken and equations applied to calculate following comply with the requirements of the selected baseline and monitoring methodology including applicable tool(s)?	EB93 Report Annex 4 §70 EB93 Report Annex 5 §110	DR	Please see CAR-5.	CAR-5	OK
B.6.4.1.1. project outcome	EB93 Report Annex 4 §70 EB93 Report Annex 5 §110	DR	N/A	OK	OK
B.6.4.1.2. baseline outcome	EB93 Report Annex 4 §70 EB93 Report Annex 5 §110	DR	a) Please include the reference sources for EFCO2 and efficiency ( $\eta$ ) values in the Tables 21 and 22, respectively. b) The baseline emissions formula has been given under the "Emission Reductions" headline.	CAR-7	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.4.1.3. leakage	EB93 Report Annex 4 §70 EB93 Report Annex 5 §110	DR	N/A	OK	OK
B.6.4.1.4. Net outcomes	EB93 Report Annex 4 §70 EB93 Report Annex 5 §110	DR	The emission reductions formula hasn't been provided in the Section B.6.4 of the PDD.	CAR-8	OK
B.6.4.2. Where the methodology allows for selection between options for equations or parameters, has adequate justification been provided in the PDD?	EB93 Report Annex 5 §111	DR	Yes, the justification is available.	OK	OK
B.6.4.3. Has the PPs used the values contained in the tables in section B.6.2 of the PDD for data and parameters available before registration?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-7.	CAR-7	OK
B.6.4.4. Has the PPs used the estimates contained in the table in section B.6 of the PDD for the data/parameters not available before registration and monitored during the crediting period?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-7.	CAR-7	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.4.5. If any of these estimates has been determined by a sampling approach, has the PP provided a description of the sampling efforts undertaken in accordance with the “Standard for sampling and surveys for CDM project activities and programme of activities”?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §74	DR	N/A	OK	OK
B.6.4.6. Has the PPs provided a sample calculation for each equation used?	GS-PDD-FORM Ver. 1.1	DR	Yes, this is available.	OK	OK
B.6.4.7. Have the PPs provided a sample calculation for each equation used, substituting the values used in the equations?	GS-PDD-FORM Ver. 1.1	DR	Yes, this is available in the Excel spreadsheet calculation.	OK	OK
B.6.4.8. Is it explained and clearly stated how the procedures in the approved methodology or standardized baseline(s) to calculate emissions like project emissions, baseline emissions and leakages are applied by the PPs?	EB93 Report Annex 5 §112	DR	Yes	OK	OK
B.6.4.9. Has the selected methodology or standardized baseline(s) been correctly and transparently applied with respect to algorithms and/or formulae used to determine emission reductions?	EB93 Report Annex 4 §63c	DR	Please see CAR-6 and CAR-7.	CAR-6 CAR-7	OK
<b>AMS I.D.</b>					
B.6.4.10. Are baseline emissions calculated using equation (1) given in the methodology?	AMS I.D. Version	DR	Please see CAR-5 and CAR-6.	CAR-5 CAR-6	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	18.0 §22				
B.6.4.11. Is the emission factor calculated using one of the following options:	AMS I.D. Version 18.0 §23	DR	Please see CAR-5 and CAR-6.	CAR-5 CAR-6	OK
B.6.4.11.1. A combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the “Tool to calculate the Emission Factor for an electricity system	AMS I.D. Version 18.0 §23	DR	Please see CAR-5 and CAR-6.	CAR-5 CAR-6	OK
B.6.4.11.2. The weighted average emissions (in t CO <sub>2</sub> /MWh) of the current generation mix.	AMS I.D. Version 18.0 §23	DR	N/A	OK	OK
B.6.4.12. Have the calculations been based on data from an official source (where available) and made publicly available?	AMS I.D. Version 18.0 §24	DR	Please see CAR-5 and CAR-6.	CAR-5 CAR-6	OK
B.6.4.13. In case of green field power plant, is the generated electricity as a result of project activity calculated using equation (2) given in the methodology?	AMS I.D. Version 18.0 §26	DR	Yes	OK	OK
B.6.4.14. In case of capacity addition in wind, solar, wave or tidal power plants, are the baseline emissions calculated using equation (3) given in the methodology?	AMS I.D. Version 18.0 §27	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.15. In case of capacity addition in hydro or geothermal power plants, have the requirements defined in Section	AMS I.D. Version 18.0	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
5.5.1.3 of the methodology been followed?	§28				
B.6.4.16. In case of capacity addition to biomass power plants, are the baseline emissions calculated using equations (4) and (5) given in the methodology?	AMS I.D. Version 18.0 §29 §30	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.17. In case of retrofit, rehabilitation or replacement in hydro, solar, wind, geothermal, wave and tidal plants, are the baseline emissions calculated using equation (6) given in the methodology?	AMS I.D. Version 18.0 §31	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.18. In case of retrofit, rehabilitation or replacement in biomass plants, are the baseline emissions calculated using equations (7) and (8) given in the methodology?	AMS I.D. Version 18.0 §32	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.19. In case of retrofit, rehabilitation or replacement, have the PPs used among the following two time spans of historical data to determine EG historical?	AMS I.D. Version 18.0 §33 §35 §36	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.19.1. The three last calendar years (five calendar years for hydro project) prior to the implementation of the project activity	AMS I.D. Version 18.0 §35	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.19.2. The time period from the calendar year following	AMS I.D. Version	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<i>DATEhist</i> , up to the last calendar year prior to the implementation of the project, as long as this time span includes at least three calendar years (five calendar years for hydro project), where <i>DATEhist</i> is latest point in time between:	18.0 §35				
B.6.4.19.3. The commercial commissioning of the plant/unit;	AMS I.D. Version 18.0 §35	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.19.4. If applicable: the last capacity addition to the plant/unit; or	AMS I.D. Version 18.0 §35	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.19.5. If applicable: the last retrofit of the plant/unit	AMS I.D. Version 18.0 §35	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.20. In case of retrofit, rehabilitation or replacement, have PPs followed the latest applicable version of “Tool to determine the remaining lifetime of equipment” to estimate DATEBaselineRetrofit? DATEBaselineRetrofit is the point in time when the existing equipment would need to be replaced/retrofitted in the absence of the project	AMS I.D. Version 18.0 §37 §38	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
activity. The point in time when the existing equipment would need to be replaced/retrofitted in the absence of the project activity should be chosen in a conservative manner that is, if a range is identified, the earliest date should be chosen.					
B.6.4.21.Where the project emissions are taken as “0” have the PPs made proper justification?	AMS I.D. Version 18.0 §39	DR	Please provide the justification for taking project and leakage emissions as “0” in the Section of B.6.4 of the PDD.	CAR-8	
B.6.4.22.If the proposed project activity is a geothermal power plant or a hydropower plant, have the project emissions been considered following the procedure described in most recent version of ACM0002?	AMS I.D. Version 18.0 §39	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.23.If necessary, have the PPs calculated the CO2 emissions from on-site consumption of fossil fuels due to the project activity using the latest applicable version of the “Tool to calculate project or leakage CO2 emissions from fossil fuel combustion?”	AMS I.D. Version 18.0 §40	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.24.In case biomass is sourced from dedicated plantations, have the procedures in the tool “Project emissions from cultivation of biomass” been followed to calculate project emissions?	AMS I.D. Version 18.0 §41	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK
B.6.4.25.Has the general guidance on leakage in biomass project activities been	AMS I.D. Version	DR	N/A (The project is already operating and registered wind farm project.)	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
followed to quantify leakages pertaining to the use of biomass residues?	18.0 §42				
B.6.4.26. Are the emission reductions calculated using equation (9) given in the methodology?	AMS I.D. Version 18.0 §43	DR	Please see CAR-6, CAR-7 and CAR-8.	CAR-6 CAR-7 CAR-8	OK
<b>B.6.5. Summary of the ex-ante estimates of SDG outcomes</b>					
B.6.5.1. Have the PPs summarized the results of the ex-ante calculation of emission reductions for all years of the crediting period, using the tabular format?	GS-PDD-FORM Ver. 1.1	DR	Please provide ex-ante estimates of all targeted SDGs in the Section B.6.5 of the PDD.	CAR-9	OK
<b>B.7. Monitoring Plan</b>					
<b>B.7.1. Data and parameters to be monitored</b>					
B.7.1.1. In the data/parameter tabular formats for monitoring, has the name of each relevant SDG indicator been included?	GS-PDD-FORM Ver. 1.1	DR	<ul style="list-style-type: none"> <li>a) The name of the first monitoring parameter hasn't been stated correctly in the Section B.7.1 of the PDD.</li> <li>b) All SDG targets and indicators haven't been provided for the monitored parameters. (e.g. SDG 13 target and indicator haven't been provided.)</li> <li>c) Please explain the reason of 0.2s class meter instead of 0.5s class meter as in the relevant legal regulation.</li> <li>d) Please include the actual purpose of all monitored data/parameters.</li> </ul>	CAR-10	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
			e) The target and indicator aren't consistent for the number of trainings parameter. (i.e. target 8.5 and indicator 8.8.2)		
B.7.1.2. In the data/parameter tabular formats for monitoring, has the name of each data/parameter been included?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-10.	CAR-10	OK
B.7.1.3. Has the unit of each data/parameter been included?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-10.	CAR-10	OK
B.7.1.4. Has the description of each data/parameter been included?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-10.	CAR-10	OK
B.7.1.5. Has the source of each data/parameter been included?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-10.	CAR-10	OK
B.7.1.6. Where several sources of data/parameters are used, is the choice of data/parameter sources explained and justified?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-10.	CAR-10	OK
B.7.1.7. Has the applied value of each data/parameter been included?	GS-PDD-FORM Ver. 1.1	DR	Please see CAR-10.	CAR-10	OK
B.7.1.8. Has the measurement methods and procedures been included? )	GS-PDD-FORM Ver. 1.1	DR	Yes, these are available.	OK	OK
B.7.1.9. Has the PPs included which	GS-PDD-	DR	Yes	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
measurement equipment is used for monitoring?	FORM Ver. 1.1				
B.7.1.10. Have the PPs included description of calibration procedures for the monitoring equipment including the following?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
B.7.1.10.1. Frequency of the calibration	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §76c	DR	Yes, this is available.	OK	OK
B.7.1.10.2. Accuracy of the calibration	EB93 Report Annex 4 §76b	DR	Yes, this is available.	OK	OK
B.7.1.10.3. Uncertainty of the calibration	EB93 Report Annex 4 §76b	DR	Yes	OK	OK
B.7.1.10.4. Calibrating agency/person	EB93 Report Annex 4 §76b	DR	Yes, this is available.	OK	OK
B.7.1.10.5. The relevant national/international standards	EB93 Report	DR	Yes, this is available.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Annex 4 §76c				
B.7.1.11. Has the accuracy level of the measurement method included?	EB93 Report Annex 4 §76b	DR	Yes	OK	OK
B.7.1.12. Has the responsible person/entity for the measurements included?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
B.7.1.13. Has the interval for the measurements included?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
B.7.1.14. Has the monitoring frequency for each data/parameter been included?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
B.7.1.15. Has the QA/QC procedures of each data/parameter been included?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §76a	DR	Yes, this is available.	OK	OK
B.7.1.16. Has the purpose of data/parameter been chosen as one of the following for each data/parameter?	GS-PDD-FORM Ver. 1.1	DR	Please see in below.	OK	OK
B.7.1.16.1. Calculation of baseline outcome;	GS-PDD-FORM	DR	Yes, this is available.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Ver. 1.1				
B.7.1.16.2. Calculation of project outcome;	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.7.1.16.3. Calculation of leakage.	GS-PDD-FORM Ver. 1.1	DR	N/A	OK	OK
B.7.1.17. Have the PPs developed and described the monitoring plan for the proposed project activity in accordance with the selected methodology(ies) and all other applicable rules and requirements?	EB93 Report Annex 4 §75 EB93 Report Annex 5 §117	DR	Please see CAR-10.	CAR-10	OK
B.7.1.18. Does the monitoring plan include all data, parameters and related information required by the selected methodology(ies)?	EB93 Report Annex 4 §76 EB93 Report Annex 5 §118a-ii	DR	a) Please provide the latest waste water and donation records and noise measurement report. b) Please clarify why water quality and quantity and other pollutants (noise level) parameters are excluded from the monitoring parameters.	CAR-11	OK
B.7.1.19. Are the monitoring arrangements described in the monitoring plan feasible within the project design?	EB93 Report Annex 5 §118b	DR	Please see CAR-10 and CAR-11.	CAR-10 CAR-11	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>B.7.2. Sampling plan</b>					
B.7.2.1. Are the data and parameters monitored in section B.7.1 of the PDD determined by a sampling approach?	GS-PDD-FORM Ver. 1.1 EB94 Report Annex 2 EB86 Report Annex 4	DR	N/A	OK	OK
B.7.2.2. If the data and parameters monitored in section B.7.1 of the PDD are to be determined by a sampling approach, has the PP provided a description of the sampling plan in accordance with the recommended outline for a sampling plan in the latest applicable version of “Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities”? (	GS-PDD-FORM Ver. 1.1 EB94 Report Annex 2 §29 §30 §31 §32 §33	DR	N/A	OK	OK
B.7.2.3. If the sampling approach is used by the PPs, does the sampling plan present a reasonable approach for obtaining unbiased, reliable estimates of the variables?	EB86 Report Annex 4 §40a	DR	N/A	OK	OK
B.7.2.4. If the sampling approach is used by	EB86	DR	N/A	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
the PPs, are the elements of objectives and reliability requirements complete?	Report Annex 4 §40a-i				
B.7.2.5. If the sampling approach is used by the PPs, do the requirements specified agree with those stated in the appropriate standards?	EB86 Report Annex 4 §40a-i	DR	N/A	OK	OK
B.7.2.6. If the sampling approach is used by the PPs, is the population in the sampling plan clearly defined?	EB86 Report Annex 4 §40b	DR	N/A	OK	OK
B.7.2.7. If the sampling approach is used by the PPs, is the proposed sampling approach clear?	EB86 Report Annex 4 §40c	DR	N/A	OK	OK
B.7.2.8. If the sampling approach is used by the PPs, does the sampling approach comply with the description of the population?	EB86 Report Annex 4 §40c-ii	DR	N/A	OK	OK
B.7.2.9. If the sampling approach is used by the PPs, is the proposed sample size adequate to achieve the minimum confidence/precision requirements?	EB86 Report Annex 4 §40d	DR	N/A	OK	OK
B.7.2.10. If the sampling approach is used by the PPs, is the ex-ante estimate of the population variance needed for the	EB86 Report Annex 4	DR	N/A	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
calculation of the sample size adequately justified?	§40d				
B.7.2.11.If the sampling approach is used by the PPs, is the sample representative of the population?	EB86 Report Annex 4 §40e	DR	N/A	OK	OK
B.7.2.12.If the sampling approach is used by the PPs, is it identified how the sampling frame would be kept?	EB86 Report Annex 4 §40e-ii	DR	N/A	OK	OK
B.7.2.13.If the sampling approach is used by the PPs, are the methods of data collection clear and unambiguous?	EB86 Report Annex 4 §40f-i	DR	N/A	OK	OK
B.7.2.14.If the sampling approach is used by the PPs, are the procedures for the data measurements defined appropriately and clearly?	EB86 Report Annex 4 §40g	DR	N/A	OK	OK
B.7.2.15.If the sampling approach is used by the PPs, do the procedures for measurements adequately provide for minimizing non-sampling errors?	EB86 Report Annex 4 §40g	DR	N/A	OK	OK
B.7.2.16.If the sampling approach is used by the PPs, is the quality control and assurance strategy adequate?	EB86 Report Annex 4 §40g-i	DR	N/A	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.7.2.17.If the sampling approach is used by the PPs, are the proposed skill sets, qualifications and experience of the personnel to be engaged to conduct sampling adequate?	EB86 Report Annex 4 §40h-i	DR	N/A	OK	OK
<b>B.7.3. Other elements of monitoring plan</b>					
B.7.3.1. Has the operational and management structure been given in the monitoring plan to monitor emission reductions and any leakage generated by the project activity?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §77a	DR	a) The operational and management structure for the monitoring plan has not been given in the PDD. b) The responsibilities and institutional arrangements for data collection and archiving shall be clearly indicated.	CAR-12	OK
B.7.3.2. Has the PP clearly indicated the responsibilities and institutional arrangements for data collection and archiving?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §77c	DR	Please see CAR-12.	CAR-12	OK
<b>C. Duration and crediting period</b>					
<b>C.1. Duration of project</b>					
<b>C.1.1. Start date of project</b>					
C.1.1.1. Has the start date of the project, in the format of DD/MM/YYYY been stated	GS-PDD-FORM	DR	Yes, this is available in the required format.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
under section C.1.1 of the PDD?	Ver. 1.1 EB93 Report Annex 4 §80				
C.1.1.2. Has the PP described how this date has been determined?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §80	DR	Yes, this is available.	OK	OK
C.1.1.3. Has the PP provided evidence to support this date?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §80	DR	N/A ((The project is already operating and registered wind farm project.)	OK	OK
<b>C.1.2. Expected operational lifetime of project</b>					
C.1.2.1. Is the expected operational lifetime of the project activity stated in years and months under section C.1.2 of the PDD?	GS-PDD-FORM Ver. 1.1 EB93 Report	DR	This is available as 49 years as in the already registered PDD from the 1 <sup>st</sup> crediting period.	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Annex 4 §81				
<b>C.2. Crediting period of project</b>					
<b>C.2.1. Start date of crediting period</b>					
C.2.1.1. Is the start date of the crediting period of the project activity given in DD/MM/YYYY format?	GS-PDD-FORM Ver. 1.1	DR	The expected second crediting period start date is indicated as 18/03/2019 but it refers to another project. (i.e. Mersin project activity)	CAR-13	OK
C.2.1.2. Have the PPs determined only one start date for the crediting period, even in cases of phased implementation of the proposed CDM project activity?	EB93 Report Annex 4 §84	DR	Yes	OK	OK
C.2.1.3. Has the PPs used any qualifications to the start date, such as “expected”?	EB93 Report Annex 4 §85	DR	Please remove the wording of “expected” as a qualification term in the Section C.2.1 of the PDD.	CAR-14	OK
<b>C.2.2. Total length of crediting period</b>					
C.2.2.1. Is the length of the crediting period of the proposed project activity stated in years and months under section C.2.3 of the PDD?	GS-PDD-FORM Ver. 1.1	DR	Yes, this is available.	OK	OK
<b>D. Safeguarding principles assessment</b>					

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
<b>D.1. Analysis of social, economic and environmental impacts</b>					
D.1.1. Have the PPs carried out an analysis of the social, economic and environmental impacts following the GS4GG Safeguarding Principles and Requirements?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
D.1.2. Are all the safeguarding principles stated?	GS-PDD-FORM Ver. 1.1	DR	Yes, these are available but please correct the typos in the Section D (e.g. respects instead of respects).	CAR-15	OK
D.1.3. Are all the relevant assessment questions included pertaining to the safeguarding principles?	GS-PDD-FORM Ver. 1.1	DR, SV	Yes, these are available.	OK	OK
D.1.4. Is the relevance of the principle cited correctly (Yes/potentially/no)?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
D.1.5. Is proper justification for the safeguarding principle indicated?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
D.1.6. Are mitigation measures proposed (if required)?	GS-PDD-FORM Ver. 1.1	DR	No	OK	OK
D.1.7. Has a summary of the analysis of the impacts of the project and references to all related documentation, provided under Section D.1 of the PDD?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §87	DR	Yes	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
D.1.8. Has the PPs provided all conclusions and references to all related documentation?	EB93 Report Annex 4 §87	DR	Yes	OK	OK
D.1.9. Do the procedures of the Host Party require the PPs to conduct an environmental impact assessment?	EB93 Report Annex 4 §88 EB93 Report Annex 5 §126	DR	“EIA is not Required” decision is available. so the detailed EIA was not prepared for the project.	OK	OK
D.1.10. If the procedures of the Host Party require the PPs to conduct an environmental impact assessment, has the PPs conducted an environmental impact assessment in accordance with the Host Party’s procedures?	EB93 Report Annex 4 §88 EB93 Report Annex 5 §127 §129	DR	“EIA is not Required” decision is available. so the detailed EIA was not prepared for the project.	OK	OK
<b>E. Local Stakeholder Consultation</b>					
<b>E.1. Solicitation of comments from stakeholders</b>					
E.1.1. Has the PP described the process by which comments from stakeholders have been invited for the project?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
E.1.2. Has the PP conducted the stakeholder consultation in accordance with GS4GG Stakeholder Procedure Requirements and Guidelines?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
E.1.3. Has the PP demonstrated how due steps/actions were taken to appropriately engage stakeholders and solicit comment?	EB93 Report Annex 4 §89	DR	Yes	OK	OK
E.1.4. Has the PP invited comment from stakeholders in an open and transparent manner, in a way that facilitates comments to be received from local stakeholders and allows for a reasonable time for comments to be submitted?	EB93 Report Annex 4 §94 EB93 Report Annex 5 §132	DR	Yes	OK	OK
E.1.5. Has the PPs described the proposed project in a manner that allows the stakeholders to understand the project activity, taking into account confidentiality provisions of the applicable CDM M&Ps and requirements?	EB93 Report Annex 4 §96	DR	Yes	OK	OK
<b>E.2. Summary of comments received</b>					
E.2.1. Has the PP identified the stakeholders that have made comments?	GS-PDD-FORM Ver. 1.1	DR	Yes, the interviews with the local stakeholders were handled and there hasn't been any complaint by the interviewed stakeholders.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
E.2.2. Has the PP provided a summary of the stakeholder comments in a complete and clear manner?	EB93 Report Annex 4 §100 EB93 Report Annex 5 §132f	DR	Yes	OK	OK
<b>E.3. Report on consideration of comments received</b>					
E.3.1. Has the PPs provided information demonstrating that all comments received have been considered?	GS-PDD-FORM Ver. 1.1 EB93 Report Annex 4 §102	DR	Yes	OK	OK
E.3.2. Is the process on how the PPs taken into account of all comments received described in the PDD?	EB93 Report Annex 4 §101 EB93 Report Annex 5 §132g	DR, SV	Yes, the interviews with the local stakeholders were handled and there hasn't been any complaint by the interviewed stakeholders.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

Question	Reference	Means of validation*	Findings, comments, references and document sources	Draft opinion	Final opinion
<b>Appendix-1 Contact information of project participants</b>					
1. Is the contact information of PPs listed in Section A.4 of PDD provided in Appendix 1?	GS-PDD-FORM Ver. 1.1	DR	Yes	OK	OK
<b>Appendix-2 Summary of post registration design changes</b>					
1. If applicable, is the summary of the post registration changes provided?	GS-PDD-FORM Ver. 1.1	DR	The post registration changes have been given in the Appndix-2.	OK	OK

\*DR= Document Review, I= Interview, SV= Site Visit

**Table 2 – Resolution of Corrective Action, Forward Action and Clarification Requests**

Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
<p>CAR-1 Project participants haven't been included in the cover page.</p>	<p>1.7</p>	<p>The cover page has been revised accordingly.</p>	<p>Review-1: Ok Closed (The revision has been completed).</p>
<p>CAR-2 The versions of the referred tools aren't the most recent ones.</p>	<p>B.1.2</p>	<p>The latest version has been considered.</p>	<p>Review-1: Ok Closed (The versions of the referred tools have been revised).</p>
<p>CAR-3 The flow diagram is available in the PDD but please include all figure and table numbers consistently in the PDD.</p>	<p>B.3.2</p>	<p>All are included.  Response to Review-1: Table numbers have been corrected.</p>	<p>Review-1: Please correct all table numbers (e.g. Parameters Used for the Calculation of WACC table) Review-2: Ok Closed (All have been corrected).</p>
<p>CAR-4 Please correct the baseline scenario in line with the relevant applicable version of the methodology.</p>	<p>B.4.2</p>	<p>The baseline scenario has been corrected.</p>	<p>Review-1: Ok Closed (The baseline scenario has been revised).</p>
<p>CAR-5 Please clarify if the most recent data is used and please explain why 2017 data isn't used for the grid emission factor calculation.</p>	<p>B.6.2.1</p>	<p>2017 data was not available when the baseline study was initiated. The baseline study has been revised with the 2017 data. Response to Review-1: a) The reference has been revised. b) The sentence has been revised. c) The period has been corrected. d) The wording "Total CO<sub>2</sub> Emissions" has been</p>	<p>Review-1: a) Please revise the reference in the page 35 of the PDD. b) Please revise the last sentence of Step-3 in the page 35 of the PDD. c) Please correct the period (2014-2016) in the page 35 of the PDD. d) Please correct the formulae in the</p>

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
		<p>added to the equation.</p> <p>e) Table 10 has been revised by adding 2013 and 2014.</p> <p>f) The year 2013 has been removed.</p> <p>g) The efficiency (<math>\eta</math>) values of import coal and lignite have been revised.</p> <p>h) References have been corrected.</p> <p>i) The power plants are included in the sample list but not taken into consideration for BM calculation.</p> <p>j) The last three projects have been ignored.</p>	<p>page 43 of the PDD.</p> <p>e) Please include the share of primary sources in electricity generation for most recent five years in Table-10 of the PDD.</p> <p>f) Please remove the year 2013 in the "Calculation of the Build Margin Emission Factor" Section in the PDD.</p> <p>g) Please correct the efficiency (<math>\eta</math>) values of import coal and lignite in the BM calculation.</p> <p>h) Please check and correct the references in the Excel spreadsheet calculation.</p> <p>i) Please include all power plants within the sample list for BM calculation. (e.g. Çumra Şeker Fabrikası Kojenerasyon Santrali and Zonguldak Eren Enerji Elektrik Ür. A.Ş. Üretim Tesisi (Zetes III))</p> <p>j) Please clarify why last three projects have been included in the SET-Sample list.</p> <p>Review-2:</p> <p>a) Ok Closed (The reference has been revised).</p>

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Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
			b) Ok Closed (The revision has been completed). c) Ok Closed (The revision has been completed). d) Ok Closed (The revision has been completed). e) Ok closed (The revision has been completed). f) Ok Closed (2013 year has been removed). g) Ok Closed (The values have been corrected). h) Ok Closed (The references have been corrected). i) Ok Closed (Considering the conservative approach, this is accepted). j) Ok Closed (Those have been removed).
CAR-6 a) Please correct the typos (like indicator instead of indicater). b) Please include the relevant targets for each indicator instead of the terminology of following target. c) Please include the relevant target in the	B.6.3.1	The revisions and additions have been made.	Review-1: Ok Closed (All have been corrected and included).

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Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
purpose of data row of the tabular format in the Section B.6.3 of the PDD.			
<p>CAR-7</p> <p>a) Please include the reference sources for EFCO2 and efficiency (<math>\eta</math>) values in the Tables 21 and 22, respectively.</p> <p>b) The baseline emissions formula has been given under the "Emission Reductions" headline.</p>	B.6.4.1.2	<p>a) References have been included.</p> <p>b) The section has been revised accordingly.</p>	<p>Review-1: Ok Closed (All have been corrected and included).</p>
<p>CAR-8</p> <p>The emission reductions formula hasn't been provided in the Section B.6.4 of the PDD.</p>	B.6.4.1.4	The formula has been provided.	<p>Review-1: Ok Closed (It has been revised).</p>
<p>CAR-9</p> <p>Please provide ex-ante estimates of all targeted SDGs in the Section B.6.5 of the PDD.</p>	B.6.5.1	<p>Ex-ante estimates of all targeted SDGs have been provided.</p> <p>Response to Review 1: Last row has been corrected.</p>	<p>Review-1: Please check and correct the last row of Table-25.</p> <p>Review-2: Ok Closed (The revision has been completed).</p>
<p>CAR-10</p> <p>a) The name of the first monitoring parameter hasn't been stated correctly in the Section B.7.1 of the PDD.</p> <p>b) All SDG targets and indicators haven't been provided for the monitored parameters. (e.g. SDG 13 target and indicator haven't been provided.)</p>	B.7.1	<p>a) The description of the parameter has been revised accordingly.</p> <p>b) All SDG targets and indicators have been provided.</p> <p>c) TEIAS is responsible for the change of power meters and technical details of the meters are in line with the protocol for Communiqué for Power Meters. The Meter Change Protocol is</p>	<p>Review-1:</p> <p>a) Ok Closed (The name of the first monitoring parameter has been corrected).</p> <p>b) Ok Closed (All SDG targets and indicators have been included).</p> <p>c) Ok Closed (The relevant details are available).</p>

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
<p>c) Please explain the reason of 0.2s class meter instead of 0.5s class meter as in the relevant legal regulation.</p> <p>d) Please include the actual purpose of all monitored data/parameters.</p> <p>e) The target and indicator aren't consistent for the number of trainings parameter. (i.e. target 8.5 and indicator 8.8.2)</p>		<p>also available to the DOE.</p> <p>d) Actual purposes have been included.</p> <p>e) The targets and indicators have been revised.</p>	<p>d) Ok Closed (The purpose of data rows has been revised).</p> <p>e) Ok Closed (These have been revised).</p>
<p>CAR-11</p> <p>a) Please provide the latest waste water and donation records and noise measurement report.</p> <p>b) Please clarify why water quality and quantity and other pollutants (noise level) parameters are excluded from the monitoring parameters.</p>	<p>B.7.1.18</p>	<p>a) The latest waste water and donation records are available to the DOE. Since the nearest village is approximately 1km far from the Project area and there is not any noise problem for the villagers, no noise measurement report has been prepared in addition to Project Introduction File at the Gold Standard registration process. In addition to these, during the first crediting period, the noise level at the project area has been monitored by the project owner and no complaint from the villagers has been received.</p> <p>b) First, most of the parameters were determined to be monitored during the construction period. The parameters are not relevant, considering the renewal crediting period. Secondly, regarding water quality no significant changes with regard to both ground and surface waters have been</p>	<p>Review-1:</p> <p>a) Ok Closed (The relevant records have been provided).</p> <p>b) Ok Closed (The explanation is reasonable and acceptable).</p>

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
		<p>occurred and waste water is managed in accordance with the regulations and waste water records have been provided during the first crediting period.</p> <p>Regarding the noise level, the nearest village is approximately 1km far from the Project area and there is not any noise problem for the villagers, no noise measurement report has been prepared in addition to Project Introduction File at the Gold Standard registration process. In addition to these, during the first crediting period, the noise level at the project area has been monitored by the project owner and no complaint from the villagers has been received.</p>	
<p>CAR-12</p> <p>a) The operational and management structure for the monitoring plan has not been given in the PDD.</p> <p>b) The responsibilities and institutional arrangements for data collection and archiving shall be clearly indicated.</p>	<p>B.7.3.1</p>	<p>The section has been revised accordingly.</p>	<p>Review-1:</p> <p>a) Ok Closed (The operational and management structure has been included).</p> <p>b) Ok Closed (The responsibilities and institutional arrangements have been included).</p>
<p>CAR-13</p> <p>The expected second crediting period start date is indicated as 18/03/2019 but it refers to another project. (i.e. Mersin project activity)</p>	<p>C.2.1.1</p>	<p>As per the GS Procedures for the Renewal Crediting Period, <i>when the application for the Renewal Crediting Period is not submitted to GS prior to the end of the previous crediting period, but is submitted within one year, then the start</i></p>	<p>Review-1:</p> <p>Please correct the project name in the Section C.2 of the PDD.</p> <p>Review-2:</p> <p>Ok Closed (The revision has been</p>

\* CAR= Corrective Action Request, FAR= Forward Action Request, CL= Clarification Request

Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Checklist Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
		<p><i>date of the renewed crediting period will be the date when the 4-week review period ends.</i> Considering the validation workplan submitted by the DOE, the 4-week review period end date is expected as 18/03/2019.</p> <p>Response to Review 1: The project name has been corrected.</p>	completed).
<p>CAR-14 Please remove the wording of “expected” as a qualification term in the Section C.2.1 of the PDD.</p>	C.2.1.3	The wording has been removed.	Review-1: Ok Closed (It has been revised).
<p>CAR-15 Yes, these are available but please correct the typos in the Section D (e.g. repects instead of respects).</p>	D.1.2	The typos have been corrected.	Review-1: Ok Closed (These have been revised).
<p>CL-1 The implementation date is available but the documentary evidence is to be provided to confirm the implementation date stated as 09/04/2010.</p>	1.3	Provided, however it’s already validated during the first crediting period.	Review-1: Ok Closed (The relevant document is available).
<p>CL-2 Please clarify the relation of project with the indicator 8.8.2.</p>	B.6.1.1	The indicator has been revised as 8.8.1: “Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status”	Review-1: Ok Closed (This has been revised as indicator 8.8.1 throughout the PDD).

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