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GS PROJECT RENEWAL OF CREDITING PERIOD VALIDATION REPORT

EKSIM ENERJİ A.Ş.

KILLIK WIND POWER PLANT, TURKEY

PROJECT NUMBER: 652

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Organizational Unit:	Re Carbon Ltd. Carbon Department		
Project Title:	Killik Wind Power Plant, Turkey		
Project Number:	**Client:**		**Current PDD Version:**
652	EKSIM Enerji A.Ş.		09
Date of First Issue:	**Date of Current Version:**	**Version Number:**	**Number of Pages:**
14/08/2021	28/08/2022	05	102

Summary:

Host Country: Turkey

Project is Reviewed Against:

☒ Kyoto Protocol ☒ UNFCCC CDM Rules and Regulations and associated documents

☒ Gold Standard Rules and Regulations ☐ Other (Please Specify)

Methodology: ACM0002 **Version:** 20

Project Participants: EKSIM Enerji A.Ş.

Average Annual Emission Reduction Estimate in the 2nd Crediting Period: 55,523 tCO_2e

Project Size: ☒ Large Scale ☐ Small Scale ☐ Micro Scale

Registry Number:	Crediting Period Renewal No:	Crediting Period Start Date:
GS947	☒1st ☐ 2nd	13/10/2018

Validation Stages:

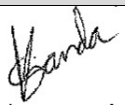
☒ Desk Review ☒ Site Visit ☒ Follow-up Interviews

☐ Global Stakeholder Consultation ☒ Resolution of Outstanding Issues

Validation Findings: During the validation 04 Corrective Action Requests, 09 Clarification Requests were raised, all of which were closed out before the issuance of this validation report. There hasn't been any Forward Action Request raised during the CP renewal validation.

In summary, it is Re Carbon Ltd.'s opinion that the project activity "Killik Wind Power Plant, Turkey" as described in the PDD, version 09 dated 28/08/2022, meets all relevant UNFCCC requirements for the CDM, GS4GG and all relevant host Party criteria and correctly applies the baseline and monitoring methodology ACM0002, version 20. Hence, Re Carbon Ltd. requests the renewal of crediting period of this registered GS project.

Validation Team Leader:	Fikriye Seda ATABEK	Indexing Terms:
Validation Team Members:	N/A	☒No distribution without permission of the client or responsible organizational unit

Approved By (Technical Reviewer):	Name:	Signature:	☐ Limited Distribution
	Sandeep KANDA		☐ Unrestricted Distribution

Abbreviations

BM : Build Margin
CAR : Corrective Action Request
CDM : Clean Development Mechanism
CER : Certified Emission Reduction(s)
CL : Clarification request
CM : Combined Margin
CO_2 : Carbon dioxide
CO_2e : Carbon dioxide equivalent
DNA : Designated National Authority
DOE : Designated Operational Entity
DR : Document Review
EF : Emission Factor
EIA : Environmental Impact Assessment
ER : Emission Reductions
ERPA : Emission Reduction Purchase Agreement
FAR : Forward Action Request
FSR : Feasibility Study Report
GHG : Greenhouse gas(es)
GWP : Global Warming Potential
I : Interview
IPCC : Intergovernmental Panel on Climate Change
IRR : Internal Rate of Return
kWh : Kilo Watt Hour
LoA : Letter of approval
MoV : Means of Validation
MW : Mega Watt
MWh : Mega Watt Hour
NCV : Net Calorific Value
NGO : Non-governmental Organisation
ODA : Official Development Assistance
OM : Operating Margin
PDD : Project Design Document
PP : Project Participant(s)
tCO2e : Tonnes of CO2 equivalents
UNFCCC: United Nations Framework Convention on Climate Change
VAT : Value-added tax

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1. EXECUTIVE SUMMARY – VALIDATION OPINION

Re Carbon Ltd. has performed the 2nd crediting period validation of the "Killlik Wind Power Plant, Turkey" between 12/04/2021 and 18/08/2021. The validation was performed on the basis of UNFCCC criteria for the Clean Development Mechanism (CDM), GS4GG 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 Gold Standard and UNFCCC requirements for the CDM. Therefore, Re Carbon Ltd. will recommend the renewal of crediting period of the project by the Gold Standard.

☐ 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 and will inform the project participants and the Gold Standard on this decision.

2. INTRODUCTION

2.1. Objective

Re Carbon Ltd. has been appointed by "EKSIM Enerji A.Ş." to perform the crediting period renewal validation of the "Killik Wind Power Plant" in Turkey with the service agreement dated 21/01/2021. 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 "ACM0002: Grid-connected electricity generation from renewable sources --- Version 20.0"
- the project's monitoring plan is assessed against "ACM0002: Grid-connected electricity generation from renewable sources --- Version 20.0"
- 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 version 2.0
- CDM Project Standard version 2.0
- CDM Project Cycle Procedure version 2.0
- Gold Standard for Global Goals version 1.0

Validation is a requirement for all GS-VER 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 2nd crediting period. The PDD is reviewed against the relevant criteria (see Section 2.1) and decisions by the CDM Executive Board, including the approved baseline and monitoring methodology. The validation was based on the guidance given in the CDM Validation and Verification Standard version 2.0, CDM Project Standard version 2.0, CDM Project Cycle Procedure 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 2nd 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 CDM 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

EKSIM Enerji A.Ş. has installed and commissioned the Killik Wind Power Plant, Turkey which is located at Tokat, Turkey. The total installed capacity is 40 MW and electricity generation is estimated to be 85.657,50 MWh annually. The project consists of 16 Nordex N100 turbines, each having a capacity of 2.5 MWs. This has been verified through the electricity generation license.

The project was operational on 13/10/2011 and registered on 14/09/2012 under the Gold Standard Registry with the registration number GS947.

As confirmed through GS registry first crediting period was between 13/10/2011 -12/10/2018. The second crediting period date of the project is given in PDD as 13/10/2018- 12/10/2025 with the choice of renewable crediting period. As there was a delay in submission of documents for CP2, the delayed period will not be claimed as credits.

The Project Proponent has been granted a 49 year generation license by the Turkish Energy Market Regulatory Authority for the proposed Project under the provisions of Law No. 4628 governing the electricity market in the Republic of Turkey.

The purpose of the project is to produce renewable electricity using wind as the power source and to contribute to Turkey's growing electricity demand through a sustainable and low carbon technology. The project will displace the same amount of electricity generated by the grid dominated with fossil fired power plants. The annual emission reduction estimated by the project is 55,523 tonnes of CO2e.

2.4. Parties Involved

The registered PDD indicates PEM Enerji A.Ş. as the project participant. On 23/01/2013, the commercial title of PEM Enerji A.S. has been changed as Tokat Enerji A.Ş. And the commercial title of Tokat Enerji A.Ş has been changed as EKSİM ENERJİ A.Ş. on 12/11/2021. The PDD submitted for renewal of crediting period indicates EKSIM Enerji A.Ş. as the project participant. The change in ownership is validated via official generation license with amendment date 23/01/2013 and 12/11/2021 and host country is Turkey.

3. METHODOLOGY

The renewal of crediting period validation of proposed GS-VER 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 12/04/2021 and 18/08/2021.
- Assessment whether the applied methodology ACM0002: Grid-connected electricity generation from renewable sources --- Version 20.0, 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 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 elebarote 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

Draft Report Clarifications, Forward Action and Corrective Action Requests by Validation Team	Ref. to Questions in Table-1	Summary of Project Participants' Response	Validation Team Conclusion
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 Gold Standard 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 16/10/2020 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: CP renewal validation team and ITR details

Name	Role	Host Country Experience	Scope Coverage	Technical Expertise	Financial Expertise	Involvement*
Fikriye Seda ATABEK	Team Leader	☒	☒	☒	☐	A, DR, R, SV
Sandeep KANDA	ITR	☒	☒	☒	☐	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 05, dated 12/04/2021 which was submitted to the validation team on the same day. This PDD was revised due to the raised CARs and CLs, version 09 dated 28/08/2022 being the final version. The PDD was assessed against;

- ACM0002: Grid-connected electricity generation from renewable sources --- Version 20.0
- Tool to calculate the emission factor for an electricity system, Version 07.0
- Tool to calculate project or leakage CO2 emissions from fossil fuel combustion, Version 03.0
- Tool Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period
- CDM Validation and Verification Standard version 2.0
- CDM Project Standard version 2.0
- CDM Project Cycle Procedure version 2.0
- The Host Country criteria
- Gold Standard for Global Goals version 1.0
- Gold Standard procedures for the renewal of a crediting period

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

3.3. Site Visits

On-site visit has not been conducted for the validation of project activity due to travel restrictions imposed due to COVID-19 pandemic.

Regarding Gold standard requirements and in the view of current situations with travel restrictions being in place for domestic as well as international travel around the world due to COVID-19 pandemic, the VVB has decided to conduct the validation remotely (without on-site inspection) for the project in accordance with the provisions of paragraph 4.1.1. (b) of Rule Update: COVID-19: Interim Measures, which states:

“If site visit cannot be postponed due to significant impact of delaying the site visit on VVB and/or project developer due to timeline/commitment as per validation/verification or GS-VERs delivery agreement, VVB may replace mandatory on-site visits with remote audits. The audit may include but not limited to validation, verification, the inclusion of VPAs, design change review etc.”

As a part of the validation activities, online 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	19/04/2021	
Location	Online (remote)	
Participant	**Company Name**	**Role in the Organization / Role in the Site Visit**
Veli Özerdem	EKSIM Enerji A.Ş.	Plant Manager
Alparslan Dursunlu	Çayören Village	Mukhtar (Village Head)
Yavuz Polat	Çayören Village	Villager
Orçun Altınbaş	EKSIM Enerji A.Ş.	Engineer
Sıla Duran	Sekans	Consultant
İlke Kılıç	Sekans	Consultant
Points Verified	**Source of Information**	
To confirm rightness of project description, as per GS PDD and Passport including project components and location	Document review and online site visit and interviews with the local stakeholders from Çayören Village	
To check the project development and operation	Document review and online site visit	
To interview with the local stakeholders about the project and its impacts	Online Site Visit and interviews with the local stakeholders from Çayören Village	

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 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 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 04 CARs and 09 CLs were raised all of which are listed in the Validation Protocol. There hasn't been any FARs issued during the CP renewal 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	
	From	To
Desk Review	12/04/2021	18/08/2021
Review of the PDD version 01	12/04/2021	14/05/2021
Site Visit	19/04/2021	19/04/2021
Issuance of the Validation Protocol version 01	14/05/2021	14/05/2021
Review of PPs Initial Set of Responses	24/05/2021	24/05/2021
Issuance of the Validation Protocol version 02	11/08/2021	11/08/2021
Review of PPs Second Loop Responses	11/08/2021	11/08/2021
Closing of all the CARs and CLs	11/08/2021	11/08/2021
Issuance of the Validation Report version 01	14/08/2021	14/08/2021
ITR Process	17/08/2021	17/08/2021
Submission of the final validation report to the PP	16/09/2021	16/09/2021

Action	Timeline	
	From	To
Revision of the report based on GS initial comments	23/04/2022	23/04/2022
Revision of the report based on GS second comments	19/07/2022	19/07/2022
Revision of the report based on GS second comments	28/08/2022	28/08/2022

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 ACM0002 version 12.1. The registered PDD (Version 04, dated 24/04/2012) has been updated in the revised PDD using the latest approved version of the methodology ACM0002 Version 20. All the applicability conditions of the methodology have been justified appropriately in the revised PDD (Version 09, dated 28/08/2022).

There has been no significant change in the relevant policies and circumstances, which would impact the baseline scenario since 24/04/2012 (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 28/08/2022. 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”.

The emission factor has been updated and fixed ex-ante for the 2nd renewable crediting period and the national emission factor published by the Ministry of Energy has been used /D09/. The emission factor in the earlier PDD was 0.6107 tCO2/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 0.6482 tCO2/MWh with 0.75 and 0.25 weightage factor given to ‘operating margin’ and ‘build margin’, respectively.

VER issuance records are available in GS Registry (https://registry.goldstandard.org/projects/details/947). Based on the provided evidences, it could be concluded that issued VERs give support to the ongoing financial sustainability of the project.

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

The project activity was earlier registered using the methodology ACM0002 Version 12.1. The PDD (Version 04, dated 24/04/2012) /D01/ has been updated in the revised PDD using the latest approved version of the methodology ACM0002 Version 20.

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 09, dated 28/08/2022) /D17/. The project is a

greenfield grid-connected renewable energy power generation project (wind power plant project) connected to the Turkish grid.

4.3. Monitoring

The monitoring plan has been revised in the updated PDD as per the applied methodology ACM0002 version 20.
Parameters to be monitored are:

SDG 13 Emission Reductions
Baseline emissions correspond to emission reductions and are calculated as the net electricity generated by the project activity, multiplied with combined margin CO2 emission factor for grid connected power generation in year y.
Emission reductions will be calculated by considering the EPIAS records for the net electricity generated and the emission factor for the grid, 0.6482 tCO2/MWh, published by the Ministry of Energy and Natural Resources (Bilgi_Formu_Web_Sitesi_2019_202110071443.pdf (enerji.gov.tr)). The annual emission reduction estimated by the project is 55,523 tonnes of CO2eq, approximately.

SDG 7 MWh of renewable energy generated
The project is expected to generate 85.657,50 MWh annually. Value has been validated through the registered PDD. This value will be monitored continuously and recorded monthly by metering devices that belong to TEIAS, Turkish Electricity Transmission company. The main source of generation data is EPIAS records (Energy Markets Company of the government). The quantity of net electricity delivered to the grid is cross checked with the meter reading records of TEIAS meters /D32/.

There are two transformers and in each transformer two electricity meters, one main meter and one back up meter. All meters are inspected and sealed by TEIAS before the commissioning of the power plant in order to be protected from interference by any of the parties and the relevant information about the electricity meters including the serial numbers have been provided by the PP /D32/.

TR-1	Serial Number
ITRON	Main Meter: 3574743
ITRON	Back-up Meter: 3574744

TR-2	Serial Number
ITRON	Main Meter: 3574741

TR-2	Serial Number
ITRON	Back-up Meter: 3574742

All data will be kept for at least two years after the crediting period for QA/QC purposes. The calibration and maintenance of the meters will be carried out in line with the "Regulation of Metering and Testing of Metering Systems". The meters will be calibrated by TEIAS when there is an inconsistency between main and back-up meters.

Meters have been validated during the online site visit and also photos of meters presented to DOE /D32/. Accuracy classes are defined in the Communiqué for Power Meters as 0.2S class. The calibration will be implemented in accordance with the related standard procedures (IEC-EN 62053-22 and 62053-23) by either Turkish Electricity Transmission Corporation (TEIAS) or the provider company in the name of TEIAS. The meters are tested on yearly basis. The meters have been installed on 18/07/2017 and latest test date is 27/08/2018 and 01/10/2020. The relevant evidences have also been provided to VVB.

CAR3 was raised to clarify issues on monitoring of generation.

SDG 8 Employment

Number of employment is monitored through Social Security System (SGK) records. Considering the operational phase, 17 personnel are working permanently (12 employees locally hired). The target will be monitored by the number of full-time employees with the SGK records during the verification process, available to VVB.

The positions at the wind projects require skilled workers, which will be achieved by adequate training. Attendance records or training certificates will be provided during the verification process. The project provides workers with a safe and healthy work environment. The project has already provided trainings for all employees and records have been provided.

Fair wage, working hours and occupational injuries will also be monitored through social security records.

CL7 was raised to ask for evidence on SDG 8.

Waste Oil Formation: Waste oil disposal will be monitored annually via disposal records.

Biodiversity: Bird/bat carcasses and nests will be monitored weekly.

Parameters that won't be monitored in the 2nd CP:

Other pollutants-noise is already asked to stakeholders in each site visit. There have been no complaints. Therefore, VVB is in the opinion that it can be omitted.

Flicker effect: is already asked to stakeholders in each site visit. There have been no complaints.

Biodiversity: Turbines have already been painted, with lights and designed considering EIA assessment in first CP. Therefore, VVB is in the opinion that it can be omitted.
Quality of improvement and quantitative employment and income generation and are monitored in second CP through SDG8.

CL7 is raised to report more on SDG monitoring.

Grievance:
Stakeholders and PP have an ongoing communication which is positive and easy, this is confirmed through remote site visit conversations. Logbook and contact information is available to Mukhtars of nearby villages, declarations by Mukhtars available to VVB. VVB also confirmed via interview that logbook is available to them. For these reasons, there is no need for a repetition of a stakeholder consultation.

Ongoing Financial Need:
The signed letter by PP about the usage of GS certification income for the loan repayment has been provided /D24/. Therefore, it can be concluded that the finance derived from GS certification has contributed to the ongoing financial sustainability of the project.
CL6 raised on the issue.

FARS from GS Issuance Review:

"The project's 1st renewable crediting period has ended on 12/10/2018 and no crediting period renewal application to GS has been conducted. As per Annex Z, If the application for renewal of crediting period Is not submitted to GS within one year after the end of the previous crediting period, the crediting period will not be renewed."

According to updated rule: "Delay in the completion of re-validation beyond the last date of current certification cycle shall result in a reduction of any issuance of Certified Products and/or Impact Statements available during following certification cycle (for example, a delay of 1 year beyond the first cycle shall mean that no Certified Impact Statements shall be issued for the period of delay). "

Proposed CP2 dates are in line with CP1 dates so they are approved by VVB. Hence, this FAR has been closed.

The other FARs will be checked during the next verification of the project since they are relevant with the monitoring and verification processes.

Capacity increase:
Project has 40 MWe capacity registered under GS and it is checked that this capacity is not registered elsewhere like VCS or IREC. The signed and sealed letter by PP confirming about non-existence of double counting and dated as 02/08/2021 has also been provided /D25/.
Still currently project is being increased to 85 MWe but this additional capacity is not included in GS as it is not complying with GS requirements.

CL3 is raised to clarify issues on double counting.
VVB has checked the I-REC Registry (https://v-1.evident.app/Public/ReportDevices/), wherein in total 321 projects from Turkey are listed as of the validation report date and this project isn't available within I-REC Registry database. Similarly, VCS project database (http://vcsprojectdatabase.org/#/home) and GCC project database (https://projects.globalcarboncouncil.com/pages/submitted_projects) were checked and this project isn't available within VCS and GCC project databases. Given that CDM projects are not applicable in Turkey and the project does not appear on domestic REC scheme, I-REC, VCS and GCC registries, it could be confirmed that no RECs and other VER carbon credits are being issued for the project at the time of this validation. Besides that, the issuance of no REC and VERs has been issued for the project through the other schemes has been confirmed through the signed and sealed letter by PP.

4.4. Calculation of Emission Factor and Emission Reductions

The emission reduction from the project activity throughout the 2nd 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 25 years and the start date was 13/10/2011 (date of acceptance). The online site visit and review of the records suggest that the key project equipment is maintained properly. Therefore, the project is expected to operate throughout the 2nd 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 which is ACM0002 version 20. 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 85.657,50 MWh per annum in line with the revised feasibility 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.

The combined margin emission factor has been obtained from national value published by the Ministry of Energy, calculated using the default values of 0.75 and 0.25 for OM and BM, respectively and it is calculated as 0.6482 tCO2/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 55,523 tCO2/year during the second renewable crediting period.

4.5. Sampling Plan

Not applicable (Since there hasn't been any sampling approach implemented within the context of the project activity and crediting period renewal validation service).

5. LIST OF PERSONS INTERVIEWED

On site visit has not been conducted for the verification of project activity due to travel restrictions imposed due to COVID-19 pandemic.

Regarding Gold standard requirements and in the view of current situations with travel restrictions being in place for domestic as well as international travel around the world due to COVID-19 pandemic, the VVB has decided to conduct the verification remotely (without on-site inspection) for the project in accordance with the provisions of paragraph 4.1.1. (b) of Rule Update: COVID-19: Interim Measures, which states:

"If site visit cannot be postponed due to significant impact of delaying the site visit on VVB and/or project developer due to timeline/commitment as per validation/verification or GS-VERs delivery agreement, VVB may replace mandatory on-site visits with remote audits. The audit may include but not limited to validation, verification, the inclusion of VPAs, design change review etc."

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

Table 5-1: List of persons interviewed

Reference Number	Means of Interview[1]	Full Name	Organization	Title
I01	SV	Veli Özerdem	EKSIM Enerji A.Ş.	Plant Manager
I02	SV	Alparslan Dursunlu	Çayören Village	Mukhtar (Village Head)
I03	SV	Yavuz Polat	Çayören Village	Villager
I04	SV	Orçun Altınbaş	EKSIM Enerji A.Ş.	Engineer
I05	SV	Sıla Duran	Sekans	Consultant
I06	SV	İlke Kılıç	Sekans	Consultant

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 online site visit:

- Noise and shadow flickering due to the project activity
- Sufficiency of local employment
- Waste management practices implemented by PP
- Impact of the project on flora and fauna including bird life
- Possible design change impacts of the project activity

[1] SV: Online 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 stakeholders during the online site visit. The documents showing the contact details of the relevant person within PP with the signatures of Cayören and Killik Villages' Mukhtars (Village Heads) and dated as 19/09/2019 were also provided to VVB /D25/.

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	Initially Registered PDD	04	24/04/2012
D02	Registered GS Passport		20/07/2012
D03	Final Validation Report	02	29/05/2012
D04	Final Second Verification Report	02	10/06/2020
D05	Second Verification GS Issuance Review	-	19/06/2020
D06	CP Renewal Validation Service Agreement	-	21/01/2021
D07	ACM0002: Grid-connected electricity generation from renewable sources	20	28/09/2019
D08	CDM Validation and Verification Standard for Project Activities	2.0	29/11/2018
D09	CDM Project Standard for Project Activities	2.0	29/11/2018
D10	CDM Project Cycle Procedure for Project Activities	2.0	29/11/2018
D11	Gold Standard for Global Goals	1.1	-
D12	Tool to calculate the emission factor for an electricity system	07.0	-
D13	Tool for the demonstration and assessment of additionality	07.0	-
D14	Tool to calculate project or leakage CO2 emissions from fossil fuel combustion	3.0	-
D15	Tool Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period	3.0.1	-
D16	Revised PDD for Renewal of Crediting Period	05	12/04/2021
D17	Revised PDD for Renewal of Crediting Period	06	14/07/2021
D18	ER Calculation Excel Sheet	01	12/04/2021
D19	ER Calculation Excel Sheet	02	14/07/2021
D20	Hazardous Waste Declaration Forms to the Ministry of Environment and Urbanization	-	2012 2019
D21	Waste Water Transfer and Disposal Records		2012 2019

Document Number	Document Name	Version	Date (dd/mm/yyyy)
D22	Social Security System (SGK) Records for PP Site Employees	-	-
D23	Signed Declaration by PP (About Confirmation and Avoidance of Double Counting)	-	02/08/2021
D24	Signed Declaration by PP (About Ongoing Financial Need of the Project)	-	03/08/2021
D25	Signed Letter by the Mukhtars (About the Contact Details of PP Relevant Staff in case of Any Complaint by Balabanlı and Maksutlu Villagers)	-	19/09/2019
D26	Electricity Generation License (Last Amendment)	-	24/07/2008
D27	Provisional Acceptance Protocols	-	13/10/2011
D28	Wind Data Analysis and Energy Generation Assessment Report	-	27/10/2010
D29	Turkish National Electricity Network Emission Factor Information Form	00	
D30	Turbine Specifications	-	-
D31	Training Records	-	2016-2020
D32	Meter Photos, test reports	-	2018-2020
D33	Transactions to Ministry of Forestry for tree plantation	-	03/02/2016
D34	Revised PDD for Renewal of Crediting Period	07	28/01/2022
D35	ER Calculation Excel Sheet	03	28/01/2022
D36	Revised PDD for Renewal of Crediting Period	08	18/07/2022
D37	Revised PDD for Renewal of Crediting Period	09	28/08/2022

7. VALIDATION TEAM AND ITR COMPETENCE

Fikriye Seda ATABEK, B.Sc. in Chemical Engineering has completed her M.Sc. degree in Istanbul Technical University in Energy Science and Technology. She is a lead auditor and trainer for ISO 50001 and has been working about management systems, ISO 14064 and energy management in industry since 2004. She has been involved in more than 80 GS and VCS projects as a team leader/validator/verifier especially in the energy sector. She has been working as contracted voluntary market projects' team leader/validator/verifier and CDM validator/verifier in the context of Re Carbon.

Sandeep KANDA holds a degree in Mechanical Engineering, Masters in Energy systems engineering from Indian Institute of Technology – Bombay and Post Graduate Diploma in Industrial Safety & Environmental Management from National Institute of Industrial Engineering in India. He has more than ten years of work experience with auditing and consultancy firms, seven years thereof with Designated Operational Entities under the CDM. He is experienced working on diversified areas of energy and environmental management, including policies, Clean Development Mechanism (CDM), Corporate Sustainability Reporting (CSR) Audits, energy audits, utility audits and product development. As CDM auditor and technical reviewer for TÜV Süd, he has audited more than 30 CDM projects as technical reviewer; 40 projects as lead auditor and 7 PoAs in various capacities; covering a broad range of sectoral scopes, such as Energy industries (renewable - / non-renewable sources), Energy distribution, Energy demand, Manufacturing industries, Chemical industries, Transport, Metal production, Waste handling & disposal and Agriculture. He has been working as a contracted team leader, technical reviewer, TA 1.1 and renewable energy expert in the context of Re Carbon.

7.1. Appointment Certificates

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Prof. Dr. Aziz Sancar Cad. 27/6 TR / 06690 Çankaya-Ankara Tel.: 0090-312-287 6122 Fax: 0090-312-287 3373	**Certificate of Appointment** Carbon Division	re-carbon Page: 1/1

This Certificate of Appointment is given to **Mrs. Fikriye Seda ATABEK** as a confirmation of compliance with internal qualification requirements as follows:

Clean Development Mechanism				
Validator	**Verifier**	**Team leader**	**Technical reviewer**	**Technical Expert**
08-02-2021	08-02-2021	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**
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Speciality	**Regional (Country) expertise**	**Financial expertise**	**Technical area**
N/A	Turkey	N/A	1.2, 2.1 and 3.1

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 SOYLER	Certification Manager	08-02-2021	
Name	**Position**	**Date**	**Signature**

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Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. Prof. Dr. Aziz Sancar Cad. 27/2 TR / 06690 Çankaya-Ankara Tel.: 0090-312-287 5122 Fax: 0090-312-287 3373	**Certificate of Appointment** Carbon Division	re-carbon Page: 1/1

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

Clean Development Mechanism				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Verified Carbon Standard, Gold Standard, World Commission on Dams, Social Carbon				
Validator	Verifier	Team leader	Technical reviewer	Technical Expert
08-02-2021	08-02-2021	08-02-2021	08-02-2021	08-02-2021

Speciality	Regional (Country) expertise	Financial expertise	Technical area
N/A	India, Vietnam, Nepal and Turkey	N/A	1.1, 1.2, 2.1, 3.1, 4.1, 9.1, 9.2, 13.1, 13.2 & 15.1

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	08-02-2021	
Name	Position	Date	Signature

8. VALIDATION OPINION

Re Carbon Ltd. has performed the 2nd crediting period validation of the "Killik Wind Power Plant, Turkey" between 12/04/2021 and 18/08/2021. 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 "Fikriye Seda ATABEK as Team Leader and Sandeep KANDA as an ITR", and the project activity was checked against the applicable rules and regulations of CDM including CDM Validation and Verification Standard version 2.0, CDM Project Standard version 2.0, CDM Project Cycle Procedure version 2.0 and Gold Standard for Global Goals version 1.0.

Re Carbon Ltd. hereby confirms that the proposed project activity "Killik Wind Power Plant, Turkey" has applied all relevant CDM Executive Board and Gold Standard 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 55,523 tCO_2e per year over the 2nd 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 "Killik Wind Power Plant, Turkey", as described in the PDD (version 09, dated 28/08/2022)

- meets all relevant Host Country criteria;
- meets all relevant requirements of Gold Standard, 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 ACM0002 version 20;
- is likely to achieve estimated emission reductions;

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

Fikriye Seda ATABEK	Sandeep KANDA	Esin TUNALI
Team Leader	ITR	Certification Manager
28/08/2022	28/08/2022	28/08/2022

ANNEX 1: VALIDATION PROTOCOL

Table 1 – GS and CDM Renewal of Crediting Period Validation Requirements

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
Cover Page-Key Project Information					
1. Has the following information been indicated in the cover page of the PDD?	GS-PDD-FORM Ver. 1.2	DR	Please see below	OK	OK
1.1. GS ID of the project activity	GS-PDD-FORM Ver. 1.2	DR	Yes, latest template of GS PDD is used.	OK	OK
1.2. Title of the project activity	GS-PDD-FORM Ver. 1.2	DR	Title is stated as "KILLIK 40.0 MW WIND POWER PLANT". The title has been indicated as "KILLIK WIND POWER PLANT" in the GS registry. Please revise in all documentation.	CAR-1	OK
1.3. Time of first submission date	GS-PDD-FORM Ver. 1.2	DR	Please state time of first submission date.	CL-1	OK
1.4. Date of design certification	GS-PDD-FORM Ver. 1.2	DR	14/09/2012	OK	OK
1.5. Version number of the PDD	GS-PDD-FORM Ver. 1.2	DR	For renewal crediting period: v1 – 12/04/2021	OK	OK
1.6. Completion date of version	GS-PDD-FORM Ver. 1.2	DR	12/04/2021	OK	OK
1.7. Project developer	GS-PDD-FORM Ver. 1.2	DR	a) Please clarify the ownership whether it is Tokat Enerji A.Ş. or PEM Enerji. b) Please provide evidences about legal rights and any name change.	CL-2	OK
1.8. Project representative	GS-PDD-FORM Ver. 1.2	DR	SEKANS ENERJİ LTD. ŞTİ. is the project representative.	OK	OK
1.9. Project participants and any communities involved	GS-PDD-FORM Ver. 1.2	DR	-	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
1.10. Host country (ies)	GS-PDD-FORM Ver. 1.2	DR	Host country and project location have been indicated as Turkey.	OK	OK
1.11. Activity requirements applied	GS-PDD-FORM Ver. 1.2	DR	Renewable Energy Activities	OK	OK
1.12. Scale of the project activity	GS-PDD-FORM Ver. 1.2	DR	Stated as large scale	OK	OK
1.13. Other requirements applied	GS-PDD-FORM Ver. 1.2	DR	-	OK	OK
1.14. Methodology (ies) applied and version number	GS-PDD-FORM Ver. 1.2	DR	Stated as ACM0002, version 20.0	OK	OK
1.15. Product requirements applied	GS-PDD-FORM Ver. 1.2	DR	GHG Emissions Reduction & Sequestration	OK	OK
1.16. Project cycle	GS-PDD-FORM Ver. 1.2	DR	Stated as regular.	OK	OK
2. Has the estimated sustainable development contributions of the project activity been provided in the relevant tabular format?	GS-PDD-FORM Ver. 1.2	DR	Stated as 1 – SDG 7 Affordable and Clean Energy 2 –SGD 8 Decent Work and Economic Growth 3 – SDG 13 Climate Action	OK	OK
A. Description of Project					
A.1. **Purpose and general description of project**					
A.1.1. Is the scenario existing prior to the implementation of the project activity including, where applicable, the type of facility where the project activity will take place or replace,	GS-PDD-FORM Ver. 1.2	DR	Yes, the project is stated as Greenfield wind power plant (in B.2 of PDD).	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
described in the PDD?					
A.1.2. Is the baseline scenario described as identified in section B4 of the PDD?	GS-PDD-FORM Ver. 1.2	DR	Baseline described in PDD	OK	OK
A.1.3. Has the PPs provided an estimation of annual average and total GHG emission reductions for the chosen crediting period?	GS-PDD-FORM Ver. 1.2	DR	Annual average given as 55,523 tonnes of CO2eq at first submission of PDD. Total is 371,629.	OK	OK
A.1.4. Is the purpose of the project activity described including how it contributes to the sustainable development of the Host Party?	GS-PDD-FORM Ver. 1.2 EB 101 Report Annex 1 §36c	DR	Purposes described	OK	OK
A.1.1. **Eligibility of the project under Gold Standard**		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
A.1.2. **Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project**					
A.1.2.1. 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. 1.2	DR	The generation licence is provided and the project is already registered within Gold Standard.	OK	OK
A.2. **Location of the project activity**		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting**			

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
		period.			
A.3. **Technologies and/or measures**		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
A.4. **Scale of the project**					
A.4.1. Has the scale of the project defined (micro scale, small scale or others)?	GS-PDD-FORM Ver. 1.2	DR	Stated as large scale	OK	OK
A.4.2. Is the justification for the scale of the project provided referring to relevant activity requirement?	GS-PDD-FORM Ver. 1.2	DR	40 MW capacity is stated. a) Please describe in PDD section A.1 about the capacity increase and that capacity increase is not registered with GS and how double counting is avoided along with the relevant evidence. b) Please clearly state is the existing 40 MW capacity is not included in IREC and provide evidences.	CL-3	OK
A.5. **Funding source of project**		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
B. Application of Approved Gold Standard Methodology (ies) and/or Demonstration of SDG Contributions					
B.1. **Reference of approved methodology(ies)**					
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. 1.2	DR	ACM0002 version 20 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	GS-PDD-FORM	DR	Tools and versions are stated in PDD as:	CAR-2	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
methodologies to which the selected methodology(ies) refer given in the PDD?	Ver. 1.2 EB 101 Report Annex 1 §54		• Tool for the demonstration and assessment of additionality" version 05.2. • "Tool to calculate the emission factor for an electricity system" version 2. Please refer to latest versions of tools.		
B.2. **Applicability of methodology(ies)**					
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. 1.2 EB 101 Report Annex 1 §54 EB 101 Report Annex 2 §67	DR	All applicability conditions have been discussed in PDD	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?	EB 101 Report Annex 2 §67	DR	All applicability conditions have been met	OK	OK
B.2.3. Has the PPs explained the documentation that has been used and provided the references to applicability of methodology?	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
ACM 0002					
B.2.4. Is the type of proposed project activity defined?	ACM 0002 Version 20.0	DR	Yes ,project is stated as Greenfield wind power plant.	OK	OK
B.2.5. If the proposed project activity is a hydro	ACM 0002 Version 20.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
power plant project, does one of the following conditions conform to the proposed project activity?					
B.2.5.1. Is the proposed project activity implemented in an existing single or multiple reservoirs, with no change in the volume of any of the reservoirs?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.5.2. Is the project activity implemented in an existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density calculated using equation (3), is greater than 4 W/m2?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.5.3. Is the project activity results in new single or multiple reservoirs and the power density calculated using equation (3), is greater than 4 W/m2?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.5.4. If the project activity is an integrated hydro power project, has the PPs demonstrated that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.5.5. If the project activity is an integrated hydro power project, has the PPs provided an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs?	ACM 0002 Version 20.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.2.6. If the project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs calculated using equation (3) is lower than or equal to 4 W/m2, do all the following conditions conform the project activity?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.6.1. The power density calculated using the total installed capacity of the integrated project, as per equation (4), is greater than 4 W/m2;	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.6.2. Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity;	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.6.3. Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m2 shall be:	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.6.3.1. Lower than or equal to 15 MW; and	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.2.6.3.2. Less than 10 per cent of the total installed capacity of integrated hydro power project.	ACM 0002 Version 20.0	DR	N/A	OK	OK
ACM 0001					
B.2.7. Does the project activity include one of the following conditions?	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.1. Install a new landfill gas (LFG) capture system in an existing or new (Greenfield) SWDS where no LFG	ACM 0001 Version 19.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
capture system was or would have been installed prior to the implementation of the project activity; or					
B.2.7.2. Make an investment into an existing LFG capture system to increase the recovery rate or change the use of the captured LFG, provided that:	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.1. The captured LFG was vented or flared and not used prior to the implementation of the project activity; and	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.2. In the case of an existing active LFG capture system for which the amount of LFG cannot be collected separately from the project system after the implementation of the project activity and its efficiency is not impacted on by the project system: historical data on the amount of LFG capture and flared is available;	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.3. Flare the LFG and/or use the captured LFG in any (combination) of the following ways:	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.4. Generating electricity;	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.5. Generating heat in a boiler, air heater or kiln (brick firing only) or glass melting furnace; and/or	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.6. Supplying the LFG to consumers through a natural gas	ACM 0001	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
distribution network;	Version 19.0				
B.2.7.2.7. Supplying compressed/liquefied LFG to consumers using trucks;	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.2.8. Supplying the LFG to consumers through a dedicated pipeline;	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.2.7.3. Do not reduce the amount of organic waste that would be recycled in the absence of the project activity.	ACM 0001 Version 19.0	DR	N/A	OK	OK
ACM 0022					
B.2.8. Does the project activity include the fresh waste, originally intended for disposal in a solid waste disposal site (SWDS), and treated using any (combination) of the waste treatment options listed in Table 2 of the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.9. Does the project activity avoid emissions of methane associated with disposing organic waste in a SWDS with or without a partial landfill gas (LFG) capture system?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.10. Does the project activity cover applicability conditions that apply for each specific treatment option as defined in the Table-2 of the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.11. Does the project cover the following conditions?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.11.1.The construction of a new plant to implement one or several of the alternative waste treatment options provided in Table 2 of the methodology	ACM 0022 Version 2.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.2.11.2.Except for the case of composting, co-composting and anaerobic digestion, only wastes for which emission reductions are claimed (fresh waste or wastewater) are processed.	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.11.3.Neither organic fresh waste nor products and by-products from the waste treatment plant established under the project activity are stored on-site under anaerobic conditions.	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.11.4.Any run-off wastewater is treated within the project boundary	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.11.5.The project does not reduce the amount of waste that would be recycled in the absence of the project activity	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.2.11.6.In the case that applicable laws or regulations require the use of the waste treatment option(s) implemented under the project activity, the compliance rate of such laws and regulations should be below 50 per cent in the period for which issuance of VERs is requested in order to claim emission reductions for that period.	ACM 0022 Version 2.0	DR	N/A	OK	OK
AM0058					
B.2.12. Is this a project activity that introduce a primary district heating system to supply heat to residential and commercial consumers?	AM0058 Version 5.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.2.13. If this is a project activity that introduce a primary district heating system to supply heat to residential and commercial consumers, does the heat come from one of the following?	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.13.1.An existing grid connected thermal power plant with no steam extraction for heating purposes, other than that required for the operation of the power plant auxiliary systems, prior to the project activity;	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.13.2.A new centralised heat only boiler(s); or	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.13.3.A combination of both B.2.13.1 and B.2.13.2	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14. Does the project activity include any of below components?	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14.1.Heat supplied to the district heating system is predominantly used for heating and/or hot tap water supply for residential and/or commercial users. At the most 20 per cent of the heat may be supplied to other users, such as for industrial production processes;	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14.2.For project activities in which a co-generation plant supplies heat to the district heating system:	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14.3.The power plant is fossil fuel fired;	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14.4.Only one type of fuel is used by	AM0058	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
the project's co-generation plant (a maximum of 1 per cent of auxiliary fuel may be used for start-up.). The same type of fossil fuel is fired in the power plant in the baseline and project scenarios;	Version 5.0				
B.2.14.5.The project activity does not lead to an increase in the technical lifetime of the power plant and does not result in any major integrated production changes at the power plant, other than the modifications required for heat extraction for the district heating.	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14.6.Emission reductions resulting from heat supply to new residential areas, in cases where more than 50% of the annual heat production originates from heat-only boilers and less than 50% of heat comes from the power plant within the primary district heating system;	AM0058 Version 5.0	DR	N/A	OK	OK
B.2.14.7.Emission reductions resulting from a decrease in heat losses due to the water losses or from demand-side measures (e.g. insulation of buildings, use of thermostatic valves, behavioural changes due to billing practices).	AM0058 Version 5.0	DR	N/A	OK	OK
AMS-I.D.					
B.2.15. 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	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.2.15.1.Electricity to a national or a regional grid, or	AMS I.D. Version 18.0 §2 §4 §7	DR	N/A	OK	OK
B.2.15.2.Electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling?	AMS I.D. Version 20.0 §2 §4 §7	DR	N/A	OK	OK
B.2.15.3.Does the new unit (proposed project activity) have both renewable and non-renewable components?	AMS I.D. Version 18.0 §6 §11	DR	N/A	OK	OK
B.2.16. Does the new unit co-fires fossil fuel?	AMS I.D. Version 18.0 §7	DR	N/A	OK	OK
B.2.17. 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	N/A	OK	OK
B.2.18. Is the project activity a retrofit, rehabilitation or a replacement?	AMS I.D. Version 18.0 §9	DR	N/A	OK	OK
B.2.19. 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	N/A	OK	OK
B.2.20. 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

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.2.21. 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^2?	AMS I.D. Version 18.0 §5	DR	N/A	OK	OK
B.2.22. 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/m2?	AMS I.D. Version 18.0 §5	DR	N/A	OK	OK
The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reductions from Manure Management Systems and Municipal Solid Waste					
B.2.23. Does the proposed project activity involve the following?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.23.1.Manure management on one or multiple livestock farms where the existing anaerobic manure treatment system, within the project boundary, is replaced by one or a combination of more than one animal waste management systems (AWMSs) that result in less GHG emissions compared to the existing system	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24. Does the proposed project activity involve manure management project under the following conditions?	MMS & MSW version 1.0	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
In addition					
B.2.24.1.Farms where livestock populations, comprising of cattle, buffalo, swine, sheep, goats, and/or poultry, is managed under confined conditions;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.2.Farms where manure is not discharged into natural water resources (e.g. rivers or estuaries);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.3.In case of anaerobic lagoons treatments systems, the depth of the lagoons used for manure management under the baseline scenario should be at least 1 meter;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.4.The annual average ambient temperature at the site where the anaerobic manure treatment facility in the baseline existed is higher than 5°C;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.5.In the baseline case, the minimum retention time of manure waste in the anaerobic treatment system is greater than 1 month;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.6.The AWMS(s) in the project case results in no leakage of manure waste into ground water, e.g. the lagoon should have a non-permeable layer at the lagoon bottom;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.7.If residues are stored in between collection activities, storage tanks shall comprise outdoor open equipments;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.8.If the manure/ treated residue is used as fertilizer in the baseline, project proponents must ensure that this end	MMS & MSW	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
use remains the same throughout the project activity;	version 1.0				
B.2.24.9.In case residual waste from the digestion is handled aerobically and/or submitted to soil application, the proper conditions and procedures (not resulting in methane emissions) for storage and transportation and soil application must be ensured.	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.10. In case of co-digestion, for one or more sources of substrates, it cannot be demonstrated that the organic matter would otherwise have been left to decay anaerobically, baseline emissions related to such organic matter shall be accounted for as zero, whereas project emissions shall be calculated according to the procedures presented in this methodology for all co-digested substrates;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.11. Has the legally binding declaration been provided by the other parties involved that they will not claim VERs from the improved animal waste treatment practices other than the Central Treatment Plant managing person/entity?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.2.24.12. If the project activity involves co-digestion of MSW, have the applicability conditions referred in the Table-2 of the latest applicable version of ACM0022 been met?	MMS & MSW version 1.0	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.3. **Project boundary**					
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. 1.2	DR	Tabular format is used to present emission types.	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.3 of the PDD?	GS-PDD-FORM Ver. 1.2	DR	Yes, flow diagram is presented in PDD.	OK	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.3 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. 1.2	DR	Yes, flow diagram includes the emissions and general flow.	OK	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?	EB 101 Report Annex 1 §58	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?	EB 101 Report Annex 1 §58	DR	Yes, selections are explained.	OK	OK
B.3.6. Have all sources and GHGs necessary for the calculation of emissions been included within the project boundary?	EB 101 Report Annex 2 §69	DR	Yes, relevant gases are included.	OK	OK
B.3.7. Does the PDD correctly describe the project boundary and the physical delineation of the proposed project activity?	EB 101 Report Annex 1 §57	DR	Yes, project boundary and delineation is correctly described.	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.3.8. Has the selected methodology been correctly applied with respect to project boundary?	EB 101 Report Annex 2 §63a	DR	Yes, boundary is correctly applied as per ACM0002	OK	OK
ACM 0002					
B.3.9. Is the spatial extent of the project boundary identified correctly?	ACM 0002 Version 20.0	DR	Yes, boundary is correctly applied as per ACM0002	OK	OK
B.3.10. Are the greenhouse gases and emission sources included in or excluded from the project boundary given in the tabular form as per the guidance given in Table-2 of ACM 0002?	ACM 0002 Version 20.0	DR	Tabular format is used to present emission types.	OK	OK
ACM 0001					
B.3.11. Does the project boundary include the following as applicable?	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.3.11.1.Sites where the LFG is flared or used (e.g. flare, power plant, boiler, air heater, glass melting furnace, kiln, natural gas distribution network, dedicated pipeline or biogas processing facility);	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.3.11.2.Captive power plant(s) (including emergency diesel generators) or power generation sources connected to the grid, which are supplying electricity to the project activity;	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.3.11.3.Captive power plant(s) (including emergency diesel generators) or power generation sources connected to the grid, which are supplying electricity in	ACM 0001 Version 19.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
the baseline that is displaced by electricity generated by captured LFG in the project activity;					
B.3.11.4.Heat generation equipment or sources which are supplying heat in the baseline that is displaced by heat generated by captured LFG in the project activity; and	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.3.11.5.The transportation of the compressed/liquefied LFG from the biogas processing facility to consumers.	ACM 0001 Version 19.0	DR	N/A	OK	OK
ACM 0022					
B.3.12. Does the spatial extent of the project been defined as the following?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.3.12.1.SWDS where the waste is disposed of in the baseline, anaerobic lagoons or sludge pits treating organic wastewater in the baseline, and the site of the alternative waste treatment process(es)	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.3.12.2.On-site electricity and/or heat generation and use, on-site fuel use and the wastewater treatment plant used to treat the wastewater by-products of the alternative waste treatment process(es).	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.3.13. If the project provides electricity to a grid, does the spatial extent of the project boundary include those plants connected to the energy system to which the plant is connected?	ACM 0022 Version 2.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.3.14. If the upgraded biogas is fed to a natural gas distribution system within the context of the project activity, does the natural gas distribution system been included in the boundary?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.3.15. Has emission sources been included in or excluded from the project boundary as listed in Table 3 of the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
AM0058					
B.3.16. Does the physical delineation of the project boundary include the following?	AM0058 Version 5.0	DR	N/A	OK	OK
B.3.16.1.For project activities in which a power plant supplies heat to the district heating network, the site of the power plant, including the heat extraction unit(s) and all interrelated production units to account for emissions resulting from changes in power generation and consumption due to the project activity;	AM0058 Version 5.0	DR	N/A	OK	OK
B.3.16.2.The heat-only boilers that supply heat to the district heating system;	AM0058 Version 5.0	DR	N/A	OK	OK
B.3.16.3.The district heating system, including pipes, sub-stations and buildings that are or will be connected to the district heating system.	AM0058 Version 5.0	DR	N/A	OK	OK
B.3.17. Has it been illustrated by PP how the project boundary is defined and where the points to measure heat supplied to buildings (Qe and Qn) should be located in line with the Figure-1 in AM0058?	AM0058 Version 5.0	DR	N/A	OK	OK
B.3.18. Are the emissions sources included in or excluded from the project boundary indicated	AM0058 Version 5.0	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
in the PDD in line with the Table-2 of the methodology?					
AMS-I.D.					
B.3.19. Is the spatial extent of the project boundary identified correctly?	AMS I.D. Version 20.0 §18	DR	N/A	OK	OK
The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reductions from Manure Management Systems and Municipal Solid Waste					
B.3.20. Does the spatial extent of the project boundary include the following as applicable?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.20.1.The site of the AWMS(s)) and /or solid waste disposal site (if applicable),	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.20.2. Treatment facility and/ or central treatment facility including the storage tanks (if applicable)	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.20.3.The site where the residual waste from biological treatment or products from those treatments, like slurry, are handled, disposed, submitted to soil application, or treated thermally/mechanically	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.20.4.Onsite flare or energy and/or heat generation equipment and the power/heat source	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.20.5.The road itineraries and/or piping system between the manure collection points	MMS & MSW	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	version 1.0				
B.3.20.6.Waste/ residue transportation (if applicable),	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.20.7.The central treatment plant and sold waste disposal site (if applicable)	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.21. Are the emissions sources included in or excluded from the project boundary indicated in the PDD in line with the Table-2 of the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.22. Has the clear diagrammatic representation of the project scenario been provided by PP showing the following?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.22.1.All the manure waste treatments steps as well as its final disposal	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.22.2.The final use of methane, if any is captured, and also the auxiliary energy used to run project treatments steps	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.22.3.The fraction of volatile solids degraded within the project boundary in the pre-project situation before disposal.	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.23. Has the precise location of the farm(s) been identified by PP including the following?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.3.23.1.Co-ordinates of farm(s) using global positioning system	MMS & MSW version 1.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.3.23.2.The road distances of the itineraries between them and the manure central treatment plant using information from official sources	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4. **Establishment and description of the baseline scenario**					
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? •	EB 101 Report Annex 2 §94 EB 101 Report Annex 1 §59	DR	According to ACM0002 (Version 20), if the project activity is the installation of a new grid-connected renewable power plant, the baseline scenario is the electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected power plants and by the addition of new generation sources. The baseline scenario is clearly stated in PDD but please make use of "Tool to assess the validity of the original/current baseline and to update the baseline at the renewal of a crediting period" and please state in PDD.	CL-4	OK
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?	EB 101 Report Annex 2 §75 EB 101 Report Annex 1 §61	DR	Please see above.	OK	OK
B.4.3. If the methodology requires use of the tools to identify the baseline scenario, have all those been applied?	EB 101 Report Annex 2 §77	DR	Yes	OK	OK
B.4.4. Are there relevant national and/or sectoral policies to identify the baseline scenario?	EB 101 Report Annex 2 §81	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	EB 101 Report Annex 1 §64				
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?	EB 101 Report Annex 2 §83d	DR	N/A	OK	OK
B.4.6. Are there relevant circumstances to identify the baseline scenario?	EB 101 Report Annex 2 §81	DR	N/A	OK	OK
B.4.7. Does the methodology require several alternative scenarios to be considered in the identification of the most reasonable baseline scenario?	EB 101 Report Annex 2 §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?	EB 101 Report Annex 2 §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	EB70 Report Annex 8	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
project activity?					
B.4.11. Does the list of alternative scenarios given in the PDD include the following?	EB 101 Report Annex 2 §93	DR	N/A	OK	OK
B.4.11.1.The project activity is undertaken without being registered as a GS project	EB 101 Report Annex 2 §93a	DR	N/A	OK	OK
B.4.11.2.All plausible alternatives	EB 101 Report Annex 2 §93b	DR	N/A	OK	OK
B.4.11.3.Comply with all applicable and enforced legislation	EB 101 Report Annex 2 §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. 1.2 EB 101 Report Annex 1 §59	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. 1.2	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. 1.2	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 ratinonales?	GS-PDD-FORM Ver. 1.2	DR	N/A	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?	GS-PDD-FORM Ver. 1.2 EB 101 Report Annex 2 §80	DR	N/A	OK	OK
B.4.17. Has the selected methodology been correctly applied with respect to baseline identification?	EB 101 Report Annex 2 §63b	DR	Yes	OK	OK
ACM 0002					
B.4.18. If the project activity involves the installation of a greenfield power plant, is the baseline scenario identified appropriately in accordance with the ACM 0002?	ACM 0002 Version 20.0	DR	According to ACM0002 (Version 20), if the project activity is the installation of a new grid-connected renewable power plant, the baseline scenario is 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. This is clearly stated in PDD.	OK	OK
B.4.19. If the project activity involves capacity addition to existing grid-connected renewable power plant/unit, is the baseline scenario identified appropriately in accordance with the ACM0002?	ACM 0002 Version 20.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.4.20. If the proposed project activity is a capacity addtion, retrofit, rehabilitation or replacement, have the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit or rehabilitation of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.21. If the project activity is the retrofit or replacement of existing grid-connected renewable power plant/unit, is the point of time at which the generation facility would likely be replaced or retrofitted ($DATE_{Baseline\ Retrofit}$) defined?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.22. If the project activity is the retrofit or replacement of existing grid-connected renewable power plant/unit, is the baseline scenario identified following the step-wise procedure in accordance with the ACM0002?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.23. Are the realistic and credible alternative baseline scenarios for power generation appropriately identified following the Step 1 of the "Combined tool to identify the baseline scenario and demonstrate additionality"?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.24. Is "the proposed project activity undertaken without being registered as a CDM project activity" listed as one of the alternatives?	EB70 Report Annex 8 EB 101 Report Annex 2 §93a	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	ACM 0002 Version 20.0				
B.4.25. Has "other realistic and credible alternative scenario(s) to the proposed CDM project activity scenario that deliver outputs services or services with comparable quality, properties and application areas" been listed as an alternative?	EB70 Report Annex 8 EB 101 Report Annex 2 §93b ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.26. Has "continuation of the current situation (no project activity or other alternatives undertaken" been listed as an alternative?	EB70 Report Annex 8 ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.27. If the barrier analysis is used, is the Step 2 of the latest applicable version of "Combined tool to identify the baseline scenario and demonstrate additionality" applied appropriately?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.28. If more than one alternative is remaining after Step 2 and if the remaining alternatives include scenarios P1 and P3, is the Investment Comparison as per step 3 of the "Combined tool to identify the baseline scenario and demonstrate additionality" applied appropriately?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.4.29. If more than one alternative is remaining after Step 2 and if the remaining alternatives include scenarios P1 and P2, is the Benchmark Analysis as per step 2b of the "Tool for the demonstration and assessment of additionality" applied appropriately?	ACM 0002 Version 20.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
ACM 0001					
B.4.30. Has the the most plausible baseline scenario been determined according to the simplified procedures or the procedures according to the latest applicable version of the "Combined tool to identify the baseline scenario and demonstrate additionality"? c)	ACM 0001 Version 19.0	DR	N/A	OK	OK
ACM 0022					
B.4.31. Have the one of the following two approaches been applied to select the most plausible baseline scenario as approprite?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.31.1.Approach 1 refers to the "Combined tool to identify the baseline scenario and demonstrate additionality"	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.31.2.Approach 2 relies on a set of objective criteria which are applied individually or in combination	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.31.3.In case of Approach 1, has it been applied according to the "Combined tool to identify the baseline scenario and demonstrate additionality" in line with the relevant requirements in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.32. In case of Approach 2 to identify the baseline scenario and demonstrate additionality, has it been applied in line with all relevant requirements in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.4.33. In case of Approach 2, has the collection coverage of MSW been estimated in line with the following?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.33.1.The quantity of waste collected divided by the total waste generation, or	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.33.2.The population covered by waste collection service divided by the total population	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.34. In case of Approach 2, has the the quantity of waste collected been obtained from one of the following?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.34.1.Municipal waste authority or	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.34.2.Based on local statistics or	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.4.34.3.Based on the MSW accepted by all waste processing facilities, including open dump sites	ACM 0022 Version 2.0	DR	N/A	OK	OK
AM0058					
B.4.35. Is the most plausible baseline scenario “no implementation of primary district heating system (continuation of current practice)”?	AM0058 Version 5.0	DR	N/A	OK	OK
AMS I.D.					
B.4.36. 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	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.4.37. If the project activity involves retrofits, rehabilitations or replacements of an existing facility, is baseline scenario identified appropriately in accordance with AMS I.D.?	AMS I.D. Version 18.0 §20	DR	N/A	OK	OK
B.4.38. 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.4.39. 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.4.40. 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
The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reductions from Manure Management Systems and Municipal Solid Waste					
B.4.41. In case of project with managing the manure in the existing facilities, have the complete set of existing/possible manure management systems listed in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories (Volume 4, Chapter 10, Table 10.17) been taken into consideration by PP?	MMS & MSW version 1.0	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.4.42. In case of project with managing the manure in the greenfield facilities, has the baseline scenario been determined as an uncovered anaerobic lagoon?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.43. If the baseline scenario has been determined as an uncovered anaerobic lagoon, have the several anaerobic lagoon design options for the particular manure stream that meet the relevant regulations and take into consideration local conditions (e.g. environmental legislation, ground water table, land requirement, temperature) been defined?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.44. If the baseline scenario has been determined as an uncovered anaerobic lagoon, do the design specifications include average depth and surface area of the anaerobic lagoon, residence time of the organic matter, as well as any other key parameters?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.45. In case of project with managing the manure for electricity generation, has the following baseline alternatives been considered by PP?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.45.1.Electricity generation from biogas, undertaken without being registered as GS project activity;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.45.2.Electricity generation in existing or new renewable based captive power plant(s);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.45.3.Electricity generation in existing and/or new grid-connected power plant;	MMS & MSW version 1.0	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.4.45.4.Electricity generation in an off-grid fossil fuel fired captive power plant;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.45.5.Electricity generation in existing and/or new grid-connected power plant and fossil fuel fired captive power plant(s).	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46. In case of project with managing the manure for heat generation, has the following baseline alternatives been considered by PP?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.1.Heat generation from biogas undertaken without being registered as GS project activity;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.2.Heat generation in existing or new fossil fuel fired cogeneration plant(s);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.3.Heat generation in existing or new renewable based cogeneration plant(s);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.4.Heat generation in existing or new on-site or off-site fossil fuel based boiler(s) or air heater(s);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.5.Heat generation in existing or new on-site or off-site renewable energy based boiler(s) or air heater(s);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.6.Any other source, such as district heat; and	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.46.7.Other heat generation technologies (e.g. heat pumps or solar energy).	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.47. In case of project with the treatment of the fresh waste, has the following alternatives or combinations of these alternatives been	MMS & MSW version 1.0	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
considered by PP?					
B.4.48. The project activity without being registered as a GS project activity (i.e. any (combination) of the waste treatment options; Composting, Co-composting or anaerobic digestion);	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.49. Disposal of the fresh waste in a SWDS with a partial capture of the LFG and flaring of the captured LFG;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50. Disposal of the fresh waste in a SWDS without a LFG capture system;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50.1.Part of the fresh fraction of the solid waste is recycled and not disposed in the SWDS;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50.2.Part of the fresh fraction of the solid waste is treated aerobically and not disposed in the SWDS;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50.3.Part of the organic fraction of the solid waste is incinerated and not disposed in the SWDS;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50.4.: Part of the organic fraction of the solid waste is gasified and not disposed in the SWDS;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50.5.Part of the organic fraction of the solid waste is treated in an anaerobic digester and not disposed in the SWDS;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.50.6.Part of the organic fraction of the solid waste is mechanically or thermally treated to produce RDF/SB and not disposed in the SWDS.	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.51. In case of project with the treatment of the fresh waste, has the baseline scenario been determined as the one of the following among	MMS & MSW version 1.0	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
the most plausible baseline scenario alternatives?					
B.4.52. Disposal of the fresh waste in a SWDS with a partial capture of the LFG and flaring of the captured LFG;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.4.53. Disposal of the fresh waste in a SWDS without a LFG capture system;	MMS & MSW version 1.0	DR	N/A	OK	OK
B.5. **Demonstration of additionality**		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
B.5.1. **Prior consideration of CDM**					
B.5.1.1. In case of projects undergoing design changes, has the request for design change approval is within one year design change start date?	GS-PDD-FORM Ver. 1.2	DR	Please state in the PDD section B5 that additionality has been evaluated in first validation and that the information is repeated in this PDD and no new additionality assessment is done.	CL-5	OK
B.5.2. **Ongoing financial need**					
B.5.2.1. Has a short narrative that demonstrates how the revenue from Gold Standard certification is material to the ongoing sustainability of the project been provided?	GS-PDD-FORM Ver. 1.2	DR	a) Please provide a short narrative that demonstrates how the revenue from Gold Standard certification is material to the ongoing sustainability of the project along with the relevant evidence. b) As per Principles & Requirements 4.1.52, please include some data and numbers to show the contribution of GS revenues (this info does not have to be in PDD but has to be submitted to VVB).	CL-6	OK
B.6. **Sustainable Development Goals (SDG) outcomes**					

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.1. Has the PPs specified the relevant SDG target for each of three SDGs addressed by the project?	GS-PDD-FORM Ver. 1.2	DR	Project refers to • SDG 7 - Affordable and Clean Energy:86658 MWh of clean energy expected to be generated annually. • • SDG 8 - Decent Work and Economic Growth : The project provides employment opportunities to 16 people • • SDG 13 - Climate Action :The project would realize annual emission reduction of is 53090 tonnes of CO2eq approximately All approved by DOE	OK	OK
B.6.1. **Explanation of methodological choices/approaches for estimating the SDG outcome**					
B.6.1.1. 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. 1.2	DR	Please see below	OK	OK
B.6.1.1.1. Baseline	GS-PDD-FORM Ver. 1.2	DR	Baseline is fossil fuel based grid for SDG 7 - Affordable and Clean Energy and SDG 13 - Climate Action. Regular employment conditions is baseline for SDG 8 - Decent Work and Economic Growth	OK	OK
B.6.1.1.2. Project	GS-PDD-FORM Ver. 1.2	DR	The project is expected to generated 85658 MWh annually grid for SDG 7 - Affordable and Clean Energy and realize emission reduction of is 371629 tonnes of CO2eq for SDG 13 - Climate Action For SDG 8 - Decent Work and Economic Growth : The project provides employment opportunities to 16 people	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.1.1.3. Leakage	GS-PDD-FORM Ver. 1.2	DR	No leakage in the project	OK	OK
B.6.1.1.4. Net benefit	GS-PDD-FORM Ver. 1.2	DR	a) Please revise typo "50,039 tonnes of CO2eq" in PDD. b) Please provide social security registry records for all employees. c) Please revise number of employees in PDD. d) Please also revise "4 O&M Technicians" in PDD as 6 people have been declared for maintenance e) Please state if there is any security personnel and provide their SGK records and trainings f) Please provide high voltage trainings of employees even though they are certificates of 10 years or so. g) Please provide evidences on donations made to villages.	CL-7	OK
B.6.1.2. Has the PPs clearly stated which equations will be used in calculating net benefit?	GS-PDD-FORM Ver. 1.2	DR	Calculations for ER are presented clearly	OK	OK
B.6.1.3. Has the PPs explained and justified all relevant methodological choices including the following?	GS-PDD-FORM Ver. 1.2 EB101 Report Annex 1 §72	DR	N/A	OK	OK
B.6.1.3.1. 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. 1.2 EB101 Report	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Annex 1 §72				
B.6.1.3.2. Where the methodology(ies) provide different options to choose from , indicate and justify which option is chosen for the project activity	GS-PDD-FORM Ver. 1.2 EB101 Report Annex 1 §72	DR	N/A	OK	OK
B.6.1.3.3. 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. 1.2	DR	N/A	OK	OK
B.6.2. **Data and parameters fixed ex ante**					
B.6.2.1. Have the PPs included a compilation of information on the data and parameters that are **not monitored** 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. 1.2	DR	Turkish grid emission factor has been used as CM and it is provided with correct reference.	OK	OK
B.6.2.2. 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. 1.2	DR	N/a	OK	OK
B.6.2.3. Are the following information regarding the data and parameters specified	GS-PDD-FORM	DR		OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
correctly?	Ver. 1.2				
B.6.2.3.1. Relevant SDG indicator	GS-PDD-FORM Ver. 1.2	DR	Stated as 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	OK	OK
B.6.2.3.2. Data/parameter	GS-PDD-FORM Ver. 1.2	DR	Stated as EFgrid,CM,y	OK	OK
B.6.2.3.3. Data/parameter unit	GS-PDD-FORM Ver. 1.2	DR	Stated as tCO2/MWh	OK	OK
B.6.2.3.4. Description of the data/parameter	GS-PDD-FORM Ver. 1.2	DR	Stated as Emission factor of the Turkish grid determined ex-ante. It's been published by the Ministry of Energy for 2018.	OK	OK
B.6.2.3.5. Source of data	GS-PDD-FORM Ver. 1.2	DR	Stated as https://enerjiapi.etkb.gov.tr/Media/Dizin/ETKB/Duyurular//0c6b62ea-bf2f-4fea-b9b3-28bc6f48ddf2_Bilgi_Formu_-_Web_Sitesi.pdf	OK	OK
B.6.2.3.6. Values applied to data/parameter	GS-PDD-FORM Ver. 1.2	DR	Stated as 0.6198	OK	OK
B.6.2.4. Where applied values have been measured, are the following included in the PDD?	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.2.4.1. The equipment used	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
	Ver. 1.2				
B.6.2.4.2. The standards used	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.2.4.3. Responsible person/entity having undertaken the measurement	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.2.4.4. The date of measurement(s)	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.2.4.5. The frequency of measurement(s)	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.2.4.6. The measurement results	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.2.5. Has the purpose of data been chosen as one of the following for each data/parameter?	GS-PDD-FORM Ver. 1.2	DR	Please see in below.	OK	OK
B.6.2.5.1. Calculation of baseline;	GS-PDD-FORM Ver. 1.2	DR	Stated as "Calculation of the baseline emissions-to demonstrate contribution to SDG Target 13.3.: Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning"	OK	OK
B.6.2.5.2. Calculation of project;	GS-PDD-FORM Ver. 1.2	DR	Transfer records for Hazardous waste (oil etc), municipal waste and waste water have been provided	OK	OK
B.6.2.5.3. Calculation of leakage.	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
	Ver. 1.2				
B.6.3. **Ex ante estimation of SDG impact**					
B.6.3.1. 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)?	EB101 Report Annex 1 §71 EB101 Report Annex 2 §110	DR	Yes	OK	OK
B.6.3.1.1. project outcome	EB101 Report Annex 1 §71 EB101 Report Annex 2 §110	DR	Yes	OK	OK
B.6.3.1.2. baseline outcome	EB101 Report Annex 1 §71 EB101 Report Annex 2 §110	DR	Yes	OK	OK
B.6.3.1.3. leakage	EB101 Report Annex 1 §71 EB101 Report Annex 2 §110	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.3.1.4. Net outcomes	EB101 Report Annex 1 §71 EB101 Report Annex 2 §110	DR	Please correct tables in Section B.6.4 of the PDD as per correct dates.	CAR-3	OK
B.6.3.2. Where the methodology allows for selection between options for equations or parameters, has adequate justification been provided in the PDD?	EB101 Report Annex 2 §111	DR	N/A	OK	OK
B.6.3.3. 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. 1.2	DR	Yes	OK	OK
B.6.3.4. 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. 1.2	DR	N/A	OK	OK
B.6.3.5. 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. 1.2	DR	N/A	OK	OK
B.6.3.6. Has the PPs provided a sample calculation for each equation used?	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
B.6.3.7. Have the PPs provided a sample	GS-PDD-	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
calculation for each equation used, substituting the values used in the equations?	FORM Ver. 1.2				
B.6.3.8. 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?	EB101 Report Annex 2 §112	DR	Yes	OK	OK
B.6.3.9. 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?	EB101 Report Annex 2 §63c	DR	Yes	OK	OK
AMS I.D.					
B.6.3.10.Are baseline emissions calculated using equation (1) given in the methodology?	AMS I.D. Version 18.0 §22	DR	N/A	OK	OK
B.6.3.11.Is the emission factor calculated using one of the following options:	AMS I.D. Version 18.0 §23	DR	N/A	OK	OK
B.6.3.11.1. 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	N/A	OK	OK
B.6.3.11.2. The weighted average emissions (in t CO2/MWh) of the current generation mix.	AMS I.D. Version 18.0 §23	DR	N/A	OK	OK
B.6.3.12. Have the calculations been based on	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
data from an official source (where available) and made publicly available?	Version 18.0 §24				
B.6.3.13.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	N/A	OK	OK
B.6.3.14.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	OK	OK
B.6.3.15.In case of capacity addition in hydro or geothermal power plants, have the requirements defined in Section 5.5.1.3 of the methodology been followed?	AMS I.D. Version 18.0 §28	DR	N/A	OK	OK
B.6.3.16.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	OK	OK
B.6.3.17.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	OK	OK
B.6.3.18.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	OK	OK
B.6.3.19.In case of retrofit, rehabilitation or replacement, have the PPs used among the following two time spans of historical data to determine EGhistorical?	AMS I.D. Version 18.0 §33 §35 §36	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.6.3.19.1. 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	OK	OK
B.6.3.19.2. The time period from the calendar year following *DATEhist*, 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 *DATEhist* is latest point in time between:	AMS I.D. Version 18.0 §35	DR	N/A	OK	OK
B.6.3.19.3. The commercial commissioning of the plant/unit;	AMS I.D. Version 18.0 §35	DR	N/A	OK	OK
B.6.3.19.4. If applicable: the last capacity addition to the plant/unit; or	AMS I.D. Version 18.0 §35	DR	N/A	OK	OK
B.6.3.19.5. If applicable: the last retrofit of the plant/unit	AMS I.D. Version 18.0 §35	DR	N/A	OK	OK
B.6.3.20. 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 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	AMS I.D. Version 18.0 §37 §38	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
a range is identified, the earliest date should be chosen.					
B.6.3.21. Where the project emissions are taken as "0" have the PPs made proper justification?	AMS I.D. Version 18.0 §39	DR	N/A	OK	OK
B.6.3.22. 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	OK	OK
B.6.3.23. 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	OK	OK
B.6.3.24. 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	OK	OK
B.6.3.25. Has the general guidance on leakage in biomass project activities been followed to quantify leakages pertaining to the use of biomass residues?	AMS I.D. Version 18.0 §42	DR	N/A	OK	OK
B.6.3.26. Are the emission reductions calculated using equation (9) given in the methodology?	AMS I.D. Version 18.0 §43	DR	N/A	OK	OK
ACM 0002					
B.6.3.27. Are baseline emissions calculated using equation (11) given in the methodology?	ACM 0002 Version 20.0	DR	Yes, equation 11 is used.	OK	OK
B.6.3.28. Is the quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the	ACM 0002 Version 20.0	DR	Yes, equation 12 is used.	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
project activity in year y ($EG_{PJ,y}$) calculated using equations (12), (13), (14), (15) or (16) given in the methodology depending on the project type and relevant requirements? ➢					
B.6.3.29. When the methodology offers options for approaches in calculations, is it documented in the PDD which option is applied?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.6.3.30. In the case of retrofits or replacements, has the point in time when the existing equipment would need to be replaced/retrofitted in the absence of the project chosen in a conservative manner?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.6.3.31. In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects)	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.6.3.31.1. Is it ensured that the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.6.3.31.2. Is it defined in the baseline emission section that no capacity addition, retrofit or rehabilitation of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity?	ACM 0002 Version 20.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.3.32. Are the project emissions calculated properly using equations (1), (2), (3), (4), (5), (6), (7), (8), (9) or (10) given in the methodology depending on the project type and the power density value?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.6.3.33. Where project emissions are taken as "0", has the PP made proper justification?	ACM 0002 Version 20.0	DR	N/A	OK	OK
B.6.3.34. Are the emission reductions calculated using equation (17) given in the methodology?	ACM 0002 Version 20.0	DR	Yes, equation 17 is used.	OK	OK
ACM 0001					
B.6.3.35.Are the baseline emissions calculated using relevant equations from equation (1) to equation (21) in the methodology? •	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.6.3.36.Are the project emissions calculated using relevant equations from equation (22) to equation (25) in the methodology?	ACM 0001 Version 19.0	DR	N/A	OK	OK
B.6.3.37.Are the emission reductions calculated using equation (26) in the methodology?	ACM 0001 Version 19.0	DR	N/A	OK	OK
ACM 0022					
B.6.3.38.Are the baseline emissions determined according to equation (1) in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.39.Do the baseline emissions comprise the following sources?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.39.1. Methane emissions from the SWDS in the absence of the project activity;	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.39.2. Methane emissions from the treatment of organic wastewater in the absence of the project	ACM 0022 Version 2.0	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
activity;					
B.6.3.39.3. Energy generated or electricity consumed by the grid in the absence of the project activity;	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.39.4. Natural gas used from the natural gas network in the absence of the project activity	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.40.Are the baseline emissions of methane from the SWDS determined using the latest applicable version of methodological tool "Emissions from solid waste disposal sites" and all relevant requirements in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.41.If applicable, has the baseline under a suppressed demand scenario been applied in line with all relevant requirements in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.42.Are the baseline emissions from organic wastewater calculated using Equation 3 and other relevant equations in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.43.Are the baseline emissions from generation of energy calculated using Equation 14 and other relevant equations in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.44.Are the baseline emissions associated with natural gas use ($BE_{NG,y}$) calculated using Equation 17 and other relevant equations in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.45.Are the project emissions in year y calculated for each alternative waste treatment option implemented in the project activity calculated using Equation 18 in the	ACM 0022 Version 2.0	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
methodology?					
B.6.3.46.Are the project emissions associated with composting or co-composting ($PE_{COMP,y}$) calculated according to the latest applicable version of methodological tool "Project and leakage emissions from composting"?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.47.Are the project emissions from anaerobic digestion ($PE_{AD,y}$) calculated according to the latest applicable version of methodological tool "Project and leakage emissions from anaerobic digesters"?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.48.Are the project emissions from gasification ($PE_{GAS,y}$) calculated using Equation 19 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.49.Are the project emissions associated with mechanical or thermal production of RDF/SB ($PE_{RDF_SB,y}$) calculated using Equation 20 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.50.. Are the project emissions from incineration ($PE_{INC,y}$) calculated using Equation 21 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.51.Are the project emissions from electricity consumption due to waste treatment process implemented under the project activity ($PE_{EC,t,y}$) calculated using the latest applicable version of "Tool to calculate baseline, project and/or leakage emissions from electricity consumption".	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.52.Are the project emissions from fossil fuel combustion associated with waste treatment process implemented under the project activity ($PE_{FC,t,y}$) calculated using the latest applicable version of "Tool to calculate	ACM 0022 Version 2.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
project or leakage CO_2 emissions from fossil fuel combustion"?					
B.6.3.53.Are the project emissions from combustion within the project boundary ($PE_{COM,c,y}$) calculated using Equation 22 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.54. Are the project emissions of CO_2 from combustion within the project boundary ($PE_{COM_CO2,c,y}$) calculated using Option 1, 2 or 3, whichever is applicable, in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.55.Are the project emissions of CH_4 and N_2O from combustion within the project boundary ($PE_{COM_CH4,N2O,c,y}$) calculated using Option 1 or 2, whichever is applicable, in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.56.If the run-off wastewater generated by the project activityis treated in the anaerobic digester, are the emissions from run-off wastewater management ($PE_{ww,t,y}$) calculated according to the latest applicable version of procedure "Project emissions from anaerobic digestion"?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.57.If the project activity generates run-off wastewater that is treated anaerobically (other than in an anaerobic digester that is part of the project activity), stored anaerobically or released untreated, are the emissions from run-off wastewater management (PEww,t,y) calculated using Equation 29 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.58.Are the leakage emissions calculated using Equation 31 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.6.3.59.Are the leakage emissions associated with composting ($LE_{COMP,y}$) calculated according to the latest applicable version of the methodological tool "Project and leakage emissions from composting"?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.60.Are the leakage emissions associated with anaerobic digestion of waste ($LE_{AD,y}$) calculated according to the latest applicable version of the methodological tool "Project and leakage emissions from anaerobic digesters"?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.61.Are the leakage emissions associated with RDF/SB ($LE_{RDF_SB,y}$) calculated using Equation 32 and other relevant equations in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
B.6.3.62. Are the emission reductions calculated using Equation 35 in the methodology?	ACM 0022 Version 2.0	DR	N/A	OK	OK
AM0058					
B.6.3.63.Are the baseline emissions calculated using equation (1) in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
B.6.3.64.Are the baseline emissions from heat generation calculated using equation (2) in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
B.6.3.65.Is the CO2 emission factor for heat supply in the baseline calculated using equation (3) in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
B.6.3.66.Is the emission factor for new users calculated using equation (4) in the methodology?	AM0058	DR	N/A	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	Version 5.0				
B.6.3.67.Are the baseline emissions from the power generation calculated using equation (5) and equation (6) in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
B.6.3.68.Are the project emissions calculated using latest applicable version of "Tool To Calculate Project or Leakage CO2 Emissions From Fossil Fuel Combustion" and the relevant principles defined in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
B.6.3.69.Are the leakage emissions calculated using equation (7) and equation (8) in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
B.6.3.70.Are the emission reductions calculated using equation (9) in the methodology?	AM0058 Version 5.0	DR	N/A	OK	OK
The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reductions from Manure Management Systems and Municipal Solid Waste					
B.6.3.71.Are the baseline emissions calculated using equation (1) in the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.72.Are the baseline emissions from animal waste treatment calculated using equation (2) in the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.73.Are the baseline emissions from baseline CH4 emissions from manure treatment using equation (3) in the methodology?	MMS & MSW version 1.0	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.6.3.74. Has $VS_{LT,y}$ been determined using the options available in the methodolgy?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.75. Has LT (NL_T) been determined using the options available in the methodolgy?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.76. Has the baseline emissions associated with electricity generation (BEEC,y) be calculated using the latest applicable version of "Tool to calculate baseline, project and/or leakage emissions from electricity consumption"?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.77. Are the baseline emissions associated with heat generation (BEHG,y) calculated using equation (11) in the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.78. Are the project emissions calculated properly using equations (12) to (21), where relevant, in the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.79. Are the leakage emissions calculated properly using equations (22) to (32), where relevant, in the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.3.80. Are the emission reductions calculated properly using equations (33) and (34) in the methodology?	MMS & MSW version 1.0	DR	N/A	OK	OK
B.6.4. **Summary of the ex-ante estimates of each SDG impact**					
B.6.4.1. 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. 1.2	DR	Yes, tabular format is used to present ER.	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.7. **Monitoring Plan**					
B.7.1. **Data and parameters to be monitored**					
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. 1.2	DR	Names of SDG indicators have been correctly included	OK	OK
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. 1.2	DR	Names of parameters have been correctly included	OK	OK
B.7.1.3. Has the unit of each data/parameter been included?	GS-PDD-FORM Ver. 1.2	DR	Units of parameters have been correctly included	OK	OK
B.7.1.4. Has the description of each data/parameter been included?	GS-PDD-FORM Ver. 1.2	DR	Descriptions of parameters have been correctly included	OK	OK
B.7.1.5. Has the source of each data/parameter been included?	GS-PDD-FORM Ver. 1.2	DR	Sources of parameters have been correctly included.	OK	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. 1.2	DR	N/A	OK	OK
B.7.1.7. Has the applied value of each data/parameter been included?	GS-PDD-FORM Ver. 1.2	DR	Values have been correctly included	OK	OK
B.7.1.8. Has the measurement methods and procedures been included?)	GS-PDD-FORM Ver. 1.2	DR	Methods and procedures have been correctly included	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.7.1.9. Has the PPs included which measurement equipment is used for monitoring?	GS-PDD-FORM Ver. 1.2	DR	Please state each event of calibration/change of meters/test in PDD.	CL-8	OK
B.7.1.10. Have the PPs included description of calibration procedures for the monitoring equipment including the following?	GS-PDD-FORM Ver. 1.2	DR	See below	OK	OK
B.7.1.10.1. Frequency of the calibration	GS-PDD-FORM Ver. 1.2 EB101 Report Annex 1 §81c ACM 0002 Version 20	DR	The meters are calibrated on yearly basis.	OK	OK
B.7.1.10.2. Accuracy of the calibration	EB101 Report Annex 1 §81b	DR	The calibration will be implemented in accordance with the related standard procedures (IEC-EN 62053-22 and 62053-23) by either Turkish Electricity Transmission Corporation (TEIAS) or the provider company in the name of TEIAS.	OK	OK
B.7.1.10.3. Uncertainty of the calibration	EB101 Report Annex 1 §81b	DR	Uncertainty is in line with legal legislation	OK	OK
B.7.1.10.4. Calibrating agency/person	EB101 Report Annex 1 §81c	DR	The calibration will be implemented in accordance with the related standard procedures (IEC-EN 62053-22 and 62053-23) by either Turkish Electricity Transmission Corporation (TEIAS) or the provider company in the name of TEIAS.	OK	OK
B.7.1.10.5. The relevant national/international standards	EB101 Report Annex 1	DR	The calibration will be implemented in accordance with the related standard procedures (IEC-EN 62053-22 and 62053-23) by either Turkish Electricity Transmission Corporation	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	§81c		(TEIAS) or the provider company in the name of TEIAS.		
B.7.1.11. Has the accuracy level of the measurement method included?	EB101 Report Annex 1 §81b	DR	Included	OK	OK
B.7.1.12. Has the responsible person/entity for the measurements included?	GS-PDD-FORM Ver. 1.2	DR	Included	OK	OK
B.7.1.13. Has the interval for the measurements included?	GS-PDD-FORM Ver. 1.2	DR	Included	OK	OK
B.7.1.14.Has the monitoring frequency for each data/parameter been included?	GS-PDD-FORM Ver. 1.2	DR	Included	OK	OK
B.7.1.15.Has the QA/QC procedures of each data/parameter been included?	GS-PDD-FORM Ver. 1.2 EB101 Report Annex 1 §81a ACM 0002 Version 20.0	DR	Included	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. 1.2	DR	Chosen for each parameter	OK	OK
B.7.1.16.1. Calculation of baseline outcome;	GS-PDD-FORM Ver. 1.2	DR	Chosen for each parameter	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
B.7.1.16.2. Calculation of project outcome;	GS-PDD-FORM Ver. 1.2	DR	Chosen for each parameter	OK	OK
B.7.1.16.3. Calculation of leakage.	GS-PDD-FORM Ver. 1.2	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?	EB101 Report Annex 1 §78 EB101 Report Annex 2 §117	DR	Monitoring plan is in line with methodology	OK	OK
B.7.1.18.Does the monitoring plan include all data, parameters and related information required by the selected methodology(ies)?	EB101 Report Annex 2 §118a-ii ACM 0002 Version 20.0	DR	Monitoring plan is in line with methodology	OK	OK
B.7.1.19.Are the monitoring arrangements described in the monitoring plan feasible within the project design?	EB101 Report Annex 2 §118b	DR	Monitoring arrangements are feasible.	OK	OK
AM0058					
B.7.1.20.Is the heat supplied to final consumers measured at each sub-station as part of the monitoring plan?	AM0058 Version 5.0	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.7.2. **Sampling plan**					
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. 1.2 EB101 Report Annex 2 §29e EB86 Report Annex 4	DR	No, sampling has not been used.	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. 1.2 EB105 Report Annex 1 §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 the PPs, are the elements of objectives and reliability requirements complete?	EB86 Report Annex 4 §40a-i	DR	N/A	OK	OK
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	DR	N/A	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	§40a-i				
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 calculation of the sample size adequately justified?	EB86 Report Annex 4 §40d	DR	N/A	OK	OK
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

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
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
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.7.3. **Other elements of monitoring plan**					
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. 1.2 EB101 Report Annex 1 §82a	DR	Responsibilities are stated in the PDD. The Project Owner will be responsible for the overall management of the monitoring proceduresincluding recording, data collection and store. The consultant will calculate emission reductions based onthese monitored data and prepare monitoring report.	OK	OK
B.7.3.2. Has the PP clearly indicated the responsibilities and institutional arrangements for data collection and archiving?	GS-PDD-FORM Ver. 1.2 EB101 Report Annex 1	DR	Please see above	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
	§82c				
C. Duration and crediting period		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
C.1. **Duration of project**					
C.1.1. **Start date of project**					
C.1.2. **Expected operational lifetime of project**		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
C.2. **Crediting period of project**					
C.2.1. **Start date of crediting period**					
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. 1.2	DR	a) "Under GS4GG please see Principles and Requirements section 5.1.46 'Delay in the completion of re-validation beyond the last date of current certification cycle shall result in a reduction of any issuance of Certified Products and/or Impact Statements available during following certification cycle (for example, a delay of 1 year beyond the first cycle shall mean that no Certified Impact Statements shall be issued for the period of delay).' CP start date will be the next day of previous CP end date, only no ERs will be issued for the delay period. b) st CP ends on Oct 12, 2018, please adjust start date of CP2 accordingly in excel and PDD considering above information and justify the selection, c) Please provide approval emails from GS about the relevant dates.	CAR-4	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
			d) Please arrange the Section C.2.1 of the PDD.		
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 project activity?	EB101 Report Annex 1 §89	DR	Yes	OK	OK
C.2.1.3. Has the PPs used any qualifications to the start date, such as "expected"?	EB101 Report Annex 1 §90	DR	No	OK	OK
C.2.2. **Total length of crediting period**					
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. 1.2	DR	Stated as 7 years, crediting period dates are correct	OK	OK
D. Summary of Safeguarding Principles and Gender Sensitive Assessment					
D.1. **Safeguarding principles that will be monitored**					
D.1.1. Has the safeguarding principles that will be monitored been summarized including the mitigation measures added to the monitoring plan? 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. 1.2	DR	Yes, they are summarized	OK	OK
D.1.2. Are all the safeguarding principles stated?	GS-PDD-FORM Ver. 1.2	DR	All stated	OK	OK
D.1.3. Are all the relevant assessment questions included pertaining to the safeguarding principles?	GS-PDD-FORM Ver. 1.2	DR	Yes	OK	OK

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Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
D.1.4. Is the relevance of the principle cited correctly (Yes/potentially/no)?	GS-PDD-FORM Ver. 1.2	DR	Correct	OK	OK
D.1.5. Is proper justification for the safeguarding principle indicated?	GS-PDD-FORM Ver. 1.2	DR	All stated	OK	OK
D.2. **Assessment that project complies with 'gender sensitive' requirements**					
D.2.1. Has the evidence been provided that the project concept and design cover the overall societal context from a gender perspective?	GS-PDD-FORM Ver. 1.2	DR	The grid connected wind power plant project is not gender sensitive project and does not adversely impact women or men. Evidences provided in PDD	OK	OK
D.2.2. 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. 1.2	DR	Yes	OK	OK
D.2.3. Has it been explained how the project align with existing country policies, strategies and best practices?	GS-PDD-FORM Ver. 1.2	DR	Yes	OK	OK
D.2.4. Has an expert been involved for the Gender Safeguarding Principles & Requirements, where required?	GS-PDD-FORM Ver. 1.2	DR	No	OK	OK
D.2.5. Has it been explained how the project address the questions raised in the Gold Standard Safeguarding Principles & Requirements document?	GS-PDD-FORM Ver. 1.2	DR	Evidences provided in PDD	OK	OK
D.2.6. Does the project apply the Gold Standard	GS-PDD-	DR	Yes	OK	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
Stakeholder Consultation & Engagement Procedure, Requirements & Guidelines?	FORM Ver. 1.2				
E. Summary of Local Stakeholder Consultation		**This section of the PDD is not reviewed as the project is under validation for renewal of crediting period.**			
E.1. **Summary of stakeholder mitigation measures**					
E.2. **Final continuous input / grievance mechanism**					
E.2.1. Has the relevant methods and all details of chosen methods been provided in the related tabular format?	GS-PDD-FORM Ver. 1.2	DR	Grievance methods explained in PDD	OK	OK
E.2.2. Has the following been provided as the mandatory methods as part of the final continuous input / grievance mechanism	GS-PDD-FORM Ver. 1.2				
E.2.2.1. Continuous input / grievance expression process book	GS-PDD-FORM Ver. 1.2	DR	Evidence that logbook has been presented to nearby villages muhtars is available	OK	OK
E.2.2.2. GS contact	GS-PDD-FORM Ver. 1.2	DR	GS contact info has been presented to nearby villages muhtars	OK	OK
F. Other Requirements					
F.1. **Forward action requests (FARs) identified during previous verification and/or design change review**					
F.1.1. Are there any FARs from the previous verification and/or design change	EB101 Report	DR	a) Please refer in PDD on the FAR in verification "Since 3000 tree plantation works hasn't been completed	CL-9	OK

*DR= Document Review, I= Interview

Question	Reference	Means of Validation*	Findings, Comments, References and Document Sources	Draft Opinion	Final Opinion
review, if applicable, stages?	Annex 2 §36		yet, the records for the plantation of remaining 805 trees shall be checked during the next verification". Please provide evidences if applicable. b) Please refer in PDD on the FAR in GS review "The project's 1st renewable crediting period has ended on 12/10/2018 and no crediting period renewal application to GS has been conducted. As per Annex Z, if the application for renewal of crediting period Is not submitted to GS within one year after the end of the previous crediting period, the crediting period will not be renewed." Please provide evidences if applicable.		

*DR= Document Review, I= Interview

Question	Reference	Means of validation*	Findings, comments, references and document sources	Draft opinion	Final opinion
Appendix-1 Safeguarding principles assessment					
1. Has the safeguarding principles assessment been completed for each principle using the relevant tabular format?	GS-PDD-FORM Ver. 1.2	DR	Yes	OK	OK
2. Has the justification of relevance for the related safeguarding principles assessment been provided?	GS-PDD-FORM Ver. 1.2	DR	Yes	OK	OK
3. If the respond is yes for the justification of relevance, has all relevant requirements from the GS4GG Safeguarding Principles and Requirements document been included in the tabular format?	GS-PDD-FORM Ver. 1.2	DR	Yes	OK	OK
4. If the respond is no or potentially for the justification of relevance, has this been justified clearly and adequately?	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
Appendix-2 Contact information of project participants					
1. Is the contact information of PPs provided in Appendix 2?	GS-PDD-FORM Ver. 1.2	DR	Yes	OK	OK
Appendix 3- LUF additional information					

*DR= Document Review, I= Interview

Question	Reference	Means of validation*	Findings, comments, references and document sources	Draft opinion	Final opinion
1. In case of land use and forest projects, has the additional information been provided in Appendix-3?).	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK
Appendix-4 Summary of approved design changes					
1. If applicable, is the summary of the approved design changes been provided?	GS-PDD-FORM Ver. 1.2	DR	N/A	OK	OK

*DR= Document Review, I= Interview

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
CAR-1 Title is stated as "KILLIK 40.0 MW WIND POWER PLANT". The title has been indicated as "KILLIK WIND POWER PLANT" in the GS registry. Please revise in all documentation.	1.2	The Sustaincert screenshot of "KILLIK WIND POWER PLANT" has been provided to the VVB.	Review-1: Ok Closed (Project name not revised).
CAR-2 Tools and versions are stated in PDD as: • Tool for the demonstration and assessment of additionality" version 05.2. • "Tool to calculate the emission factor for an electricity system" version 2. Please refer to latest versions of tools.	B.1.2	Section B.1. has been revised accordingly.	Review-1: Ok Closed (Latest versions of tools have been used).
CAR-3 Please correct tables in Section B.6.4 of the PDD as per correct dates.	B.6.3	Section B.6.4 has been revised accordingly.	Review-1: Ok Closed (Dates and ER's corrected).
CAR-4 a) "Under GS4GG please see Principles and Requirements section 5.1.46 'Delay in the completion of re-validation beyond the last date of current certification cycle shall result in a reduction of any issuance of Certified Products and/or Impact Statements available during following certification cycle (for example, a delay of 1 year beyond the first cycle shall mean that no Certified Impact	C.2.1	a) Unfortunately, the PP could not initiate the revalidation before the last date of current certification cycle. b)The related sections have been revised accordingly. c) Relevant dates are available in the previous GS reports and the rules stated in (a) is applicable for the project. d) Section C.2.1 of the PDD has been revised accordingly.	Review-1: a-b-c-d)Ok Closed (Dates and ER's corrected as per rule).

* 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
Statements shall be issued for the period of delay).' CP start date will be the next day of previous CP end date, only no ERs will be issued for the delay period. b) 1st CP ends on Oct 12, 2018, please adjust start date of CP2 accordingly in excel and PDD considering above information and justify the selection. c) Please provide approval emails from GS about the relevant dates. d) Please arrange the Section C.2.1 of the PDD.			
CL-1 Please state time of first submission date.	1.3	It's been stated.	Review-1: Ok Closed (Date stated).
CL-2 c) Please clarify the ownership whether it is Tokat Enerji A.Ş. or PEM Enerji. d) Please provide evidences about legal rights and any name change.	1.7	c) Section A.1 has been revised. d) Generation Licence is available to the VVB. c)revised	Review-1: c)Not Closed (Please revise PEM throughout the PDD and explain when and how the rights of ownership changed, as stated in licence). d)license available Review-2: Ok Closed (PDD revised).
CL-3 c) Please describe in PDD section A.1 about the capacity increase and that capacity increase is not registered with GS and how double counting is	A.4.2	a) Section B.6.3 has been revised accordingly. b)Section A1 has been revised accordingly.	Review-1: a-b)Ok Closed (Statements added).

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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
avoided along with the relevant evidence. d) Please clearly state is the existing 40 MW capacity is not included in IREC and provide evidences.			
CL-4 The baseline scenario is clearly stated in PDD but please make use of "Tool to assess the validity of the original/current baseline and to update the baseline at the renewal of a crediting period" and please state in PDD.	B.4.1	Sections B1 and B4 have been revised accordingly.	Review-1: Ok Closed (Tool stated).
CL-5 Please state in the PDD section B5 that additionality has been evaluated in first validation and that the information is repeated in this PDD and no new additionality assessment is done.	B.5.1	Section B5 has been revised accordingly.	Review-1: Ok Closed (Statements added).
CL-6 c) Please provide a short narrative that demonstrates how the revenue from Gold Standard certification is material to the ongoing sustainability of the project along with the relevant evidence. d) As per Principles & Requirements 4.1.52, please include some data and numbers to show the contribution of GS revenues (this info does not have to be in PDD but has to be submitted to VVB).	B.5.2	a)b) Section B5.2. has been revised accordingly.	Review-1: Ok Closed (OFN explanation added).
CL-7 a) Please revise typo "50,039 tonnes of CO2eq" in PDD. b) Please provide social security registry records for all employees.	B.6.1	a) Type has been corrected. b) The records are available to the VVB. c) It's been revised accordingly. d-e) Yes, the PDD has been revised accordingly and the SGK records have been provided to the VVB.	Review-1: a)Ok Closed (Typo corrected). b) Ok Closed (records available) c-d-e) Ok Closed (Revised) f) Ok Closed (records available)

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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
c) Please revise number of employees in PDD. d) Please also revise "4 O&M Technicians" in PDD as 6 people have been declared for maintenance e) Please state if there is any security personnel and provide their SGK records and trainings f) Please provide high voltage trainings of employees even though they are certificates of 10 years or so. g) Please provide evidences on donations made to villages.		f) High voltage trainings of employees have been provided to the VVB. g) The donation have been provided to the VVB.	g) Ok Closed (records available)
CL-8 Please state each event of calibration/change of meters/test in PDD.	B.7.1.9	Section B.7.1. has been revised accordingly.	Review-1: Ok Closed (Details added).
CL-9 a) Please refer in PDD on the FAR in verification "Since 3000 tree plantation works hasn't been completed yet, the records for the plantation of remaining 805 trees shall be checked during the next verification". Please provide evidences if applicable. b) Please refer in PDD on the FAR in GS review "The project's 1st renewable crediting period has ended on 12/10/2018 and no crediting period renewal application to GS has been conducted. As per Annex Z, if the application for renewal of crediting period Is not submitted to GS within one year after the end of the previous crediting period, the crediting period will not be renewed." Please provide evidences	F.1	a)The payments receipts for tree planting made to the forestry are available to the VVB. b)The PP could not apply within the allowed time period. *Delay in the completion of re-validation beyond the last date of current certification cycle shall result in a reduction of any issuance of Certified Products and/or Impact Statements available during following certification cycle (for example, a delay of 1 year beyond the first cycle shall mean that no Certified Impact Statements shall be issued for the period of delay).*	Review-1: a)Ok Closed (Payments receipts to Ministry of Environment have been provided). b) Ok Closed (CP dates have been arranged accordingly).

* 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
if applicable.			

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