



Verification and certification report form for GS project activities

VERIFICATION AND CERTIFICATION REPORT

Title of the project activity	Yunttag Wind Power Project
GS Reference number of the project activity	352
Version number of the verification and certification report	1.0Aa
Completion date of the verification and certification report	30/07/2019
Monitoring period number and duration of this monitoring period	3 rd Monitoring Period 01/05/2018 - 30/04/2019 (both days included)
Version number of monitoring report to which this report applies	Version 2 of 12/06/2019
Crediting period of the project activity corresponding to this monitoring period	21/03/2016- 19/03/2023
Project participant(s)	Innores Elektrik Uretim A.S. (Private Entity, Project Owner)
Host Party	Turkey
Sectoral scope(s), selected methodology(ies)	Sectoral scope 1: Energy Industries (Renewable-/non-renewable sources) ACM0002, Grid-connected electricity generation from renewable sources --- Version 16.0
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	112,582 tCO ₂
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	113,945 tCO ₂
Name of DOE	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the verification and certification report	Laura Severino (Authorized officer signing for the DOE) Head of Sustainability & Food Certification Compliance Unit 

SECTION A. Executive summary

Purpose and general description of the project

The project qualifies as a large-scale GS project activity. The project is 60 MWm/60 MWe wind power plant. The project consists of 24 turbines each having 2.5 kW capacities. Total output of the project is 60 MWe as per the Generation License /13/. The turbines are N90 of the 2.5 MW output, 90m diameter and 80m hub height as verified via Re-Validation Report /8/. There is no change in this crediting period as confirmed. The generated electricity is fed to the Turkey national grid. The estimated net electricity production is 203,900 MWh and the annual emission reductions are estimated to be 112,582 tCO₂ per year as confirmed through the revised registered PDD /1/. 2nd crediting period of Yuntdag WPP started on 21/03/2016 and the crediting period is 7 years which will end on 20/03/2023 /1/.

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

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

Location

The project is located at, Bergama district (Yuntdag Village) of Izmir, Turkey.

Scope of verification

Verification is the periodic independent review and ex-post determination by a DOE of the monitored reductions in GHG emissions that have occurred as a result of the registered GS4GG project activity during a defined monitoring period. Certification is the written assurance by a DOE that, during a specific period in time, a project activity achieved the emission reductions as verified. The objective of this verification is to verify and certify emission reductions reported for the Yuntdag Wind Power Project, Turkey for the period 01/05/2018 - 30/04/2019.

The scope of the verification is to verify that:

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

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

Verification process

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

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

Conclusion

RINA commissioned by Innorek Elektrik Uretim A.S. is performing the verification of the emission reductions reported for the project activity Yuntdag Wind Power Project, Turkey, GS Registration Reference No. 352 for the monitoring period 01/05/2018 - 30/04/2019, with regard to the relevant GS requirements and principles for project activities. The project was re-validated by RINA (validation Yuntdag Wind Power Project, Turkey" Report N° 2015-TQ-23-MD, Revision N° 1.3 Aa issued on 19/04/2016).

The GHG emission reductions are calculated on the basis of the approved methodology ACM0002, Grid-connected electricity generation from renewable sources -- version 16.0 of 28/11/2014 /7/ and the monitoring plan included in the registered PDD version 09 of 08/04/2016 /1/ and approved GS4GG Transition Annex /2/. In our opinion the GHG emission reductions reported for the project in the monitoring report version 2 of 12/06/2019 are fairly stated.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

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

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Liu	Hui Feng	RINA China
2	Approver	IR	Severino	Laura	RINA HQ

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in the quantification of emissions (which may be more likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording).	Low	This is the 3 rd verification after the Re-Validation, the project proponent is familiar with monitoring procedures from and previous another verification and certification project activities developed by the PP and data reporting in line with the registered PDD. In addition, previous verifications of another WPPs which belong to the project proponent are performed by RINA. The prime monitoring parameter is net export to grid which is as per monthly generation report as recorded in calibrated energy meters. Hence, the risk level is low.	During the site visit, the verification team will interview the staffs of the CDM team and check all records to confirm whether the monitoring plan has been well implemented. The major parameters used for determining the project's baseline emissions are the measurement of net electricity generation according to the monitoring plan is recorded monthly. The team will review the whole data set of the monthly report, and crosschecked against invoice raised. The verification team will check the relevant records to confirm whether the data
2	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Low	Being 3 rd verification, the project proponent has already established a well organized monitoring team, monitoring plan, including data collection	

			procedure and QA/QC procedure consistent with registered monitoring plan. Monitoring equipments are calibrated at defined frequency. Hence, the risk level is low.	collection procedure and QA/QC procedure have been well implemented.
3	Manual adjustment of otherwise automatically recorded activity levels.	Low	As detailed in section C.2 below, the data of the main monitoring parameters are taken from calibrated meters (energy meter) and can be verified from totalizer values. The monitoring equipment's are calibrated according to national standards and rules. Hence, the risk level is low.	

C.2. Consideration of materiality in conducting the verification

The project activity happens at a single site and export to grid from the plant is monitored and recorded using calibrated energy meter and 100% data is available for verification. The data which directly affect emission reduction calculations being net electricity generation is monitored and measured by calibrated electricity meters, 100% verifiable. Hence, in line with paragraph 329 and section 9.1.2.3.1 of the CDM Validation and Verification standard /6/ no significant reporting risks to the materiality of the verification were envisaged while planning for the verification and were not identified during the verification process. During the course of the verification, the team reviewed the whole data set of monthly records for net electricity /16/ and cross-checked with monthly meter records /15/. The data reported in the monitoring report are consistent with the monthly records, and the emission reductions are correctly calculated. In conclusion, the verification team confirms the data set to be free from material error.

SECTION D. Means of verification

D.1. Desk review

The monitoring report version 2 of 12/06/2019 /3/, the emission reduction calculations provided in the form of a spreadsheet "ER calculations_Yuntdag" version1, submitted on 15/04/2019 /9/, the approved baseline and monitoring methodology ACM0002 version 16.0 of 28/11/2014 /7/ and all the documentation provided to support the monitoring period /1 – 29/, was assessed as part of the verification. In addition, the Project Design Document (PDD) version 09 of 08/04/2016 /1/, in particular as regards the baseline estimations and the monitoring plan, the Transition Annex /2/, the Re-Validation Report version 1.3Aa of 19/04/2016 /8/ and the Previous Verification Report /28/ for the project, were reviewed. The list of all documents reviewed are referenced during the verification is available in Appendix 3 below.

D.2. On-site inspection

Duration of on-site inspection: 08/05/2019				
No.	Activity performed on-site	Site location	Date	Team member
1.	Implementation and operation of the proposed project activity. Checked the monitoring equipment, interviewed key personnel of the plant to confirm the operational and data collection procedures, cross-checked between information provided in the monitoring report and data plant	Bergama District of Izmir Province	08/05/2019	Fulya Ekinci Ozen
2	Reviewed the information flows for generating, aggregating and reporting the monitoring parameters	Bergama District of Izmir Province	08/05/2019	Fulya Ekinci Ozen
3	Checked calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions	Bergama District of Izmir Province	08/05/2019	Fulya Ekinci Ozen
4	Checked the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Bergama District of Izmir Province	08/05/2019	Fulya Ekinci Ozen
5	Cross-checked between information provided in the monitoring report and data evidence, including the Gold Standard for Global Goal parameters	Bergama District of Izmir Province	08/05/2019	Fulya Ekinci Ozen

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	AKDEMIR	Kerem Ziya	Life İklim ve Enerji <i>Carbon Consultant</i>	08/05/2019	Implementation status of the project Monitoring equipment and operation Generated Electricity	Fulya Ekinci Ozen
2.	ALPTEKINOGLU	Hamit	Yunt dag <i>Operation Manager</i>	08/05/2019	Commissioning of the new turbines Monitoring of Gold Standard for Global Goal Parameters	Fulya Ekinci Ozen
3.	ALTIOK	Mehmet	Ismailli Mukhtar (headman)	08/05/2019	Local Employment Receiving General Opinion of the local stakeholder about the project	Fulya Ekinci Ozen
4.	IKIZLER	Suleyman	Balabanli Village <i>Mukhtar (headman)</i>	08/05/2019	Benefit of the project to the village Dust Emission Noise Emission Local Employment Grievance Process	Fulya Ekinci Ozen

The project area was visited on 08/05/2019. The project employees were interviewed about the implementation status of the project, monitoring equipment and operation, generated electricity of the project activity. During on site visit it was confirmed that no negative feedbacks or comments were received related to project activity during grievance mechanism and continuous inputs for the monitoring period. In addition to this, the DOE assessed that whether a comment book available at the most appropriate and publicly accessible location (Ismaili Village where is the nearest location of the project activity) so that stakeholders can provide feedback on the project. The continuous input/grievance mechanism has been verified through interview with the headman of village. However, the log book couldn't be checked due to it was lost. As per declaration of village headman there isn't any positive or negative comment written on it. He also indicated that the villagers have a good relationship and whenever they need, they are able to communicate directly and easily with the operating manager of the project activity. During the site visit a new log book has been delivered to the headman in line with the GS4GG requirements.

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

D.4. Sampling approach

Not applicable.

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

Areas of verification findings	No. of CR	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form			
Compliance of the project implementation with the registered PDD	1	1	
Post-registration changes			
Compliance of the monitoring plan with the monitoring methodology including applicable tool and standardized baseline			
Compliance of monitoring activities with the registered monitoring plan			
Compliance with the calibration frequency requirements for measuring instruments	1		
Assessment of data and calculation of emission reductions or net removals	3	3	
Others (please specify)			
Total	5	4	

SECTION E. Verification findings

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

Means of verification	The monitoring report version 2 /3/ and previous version submitted by the PP has been the basis for starting the verification process. RINA confirms that the Monitoring report is based on the currently valid MR template of GS4GG Monitoring Report, version 01.0 /10/.
Findings	NA
Conclusion	RINA verified that the monitoring report was completed in accordance with the GS4GG Monitoring Report Form, version 01.0 /10/.

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

Based on the review of the Gold Standard Foundation /23/ and previous Verification Report /28/, no FAR was raised during the verification period.

E.3. Compliance of the project implementation with the registered project design document

Means of verification	The Monitoring Report for the project activity "Yuntdag Wind Power Project ", version 2 of 12/06/2019 /3/ submitted by the Innores Elektrik Uretim A.S. has been the basis for the verification process. The project qualifies as a large-scale GS project activity. The project is 60 MWm/60 MWe wind power plant. The project consists of 24 turbines each having 2.5 kW
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	capacities. Total output of the project is 60 MWe as per the Generation License /13/ . The turbines are N90 of the 2.5 MW output, 90m diameter and 80m hub height as verified via Re-Validation Report /8/ . There is no change in this crediting period as confirmed The generated electricity is fed to the Turkey national grid. The estimated net electricity production is 203,900 MWh and the annual emission reductions are estimated to be 112,582 tCO ₂ per year as confirmed through the revised registered PDD /1/ . 3 rd crediting period of Yuntdag WPP started on 21/03/2016 and the crediting period is 7 years which will end on 20/03/2023 /1/ .
Findings	CAR 1: Please clarify/correct the issues listed below: - The unit of ERs is indicated as tCO_{2e} in the MR. However, the unit of the combined emission factor is tCO₂/MWh not tCO_{2e}/MWh. - EPIAS records are used for calculating ERs. PMUM is not valid abbreviation. - Please provide the chronological order of monitoring period number in addition to duration of this monitoring period and indicate whether the both days included or not. - The operation and management diagram is not provided in the MR. - Please indicate the crediting period start date in DD/MM/YYYY under the section C of MR. - Please provide the revision no and date of registered PDD and Transition Annex presented under section E.2 in the MR. The unit of ERs is now indicated as tCO₂ in the MR. EPIAS records are used for calculating ERs. Correct abbreviation is now used. The chronological order of monitoring period number in addition to duration of this monitoring period is now provided and it is indicated whether the both days included or not. The operation and management diagram is now provided in the MR. The crediting period start date is now indicated as 21/03/2016 under the section C of MR. The revision no and date of registered PDD and Transition Annex are now presented under section E.2 in the MR. Hence, CAR 1 is closed. CR 1: Please add a clear explanation regarding the Transition Process from GS ver. 2.2 to GS4GG under the section A.1. in the MR and also add under the table 2. A clear explanation regarding the Transition Process from GS ver. 2.2 to GS4GG under the section A.1. and table 2 in the MR is now added. The final transition review feedback form dated 16/11/2018 is now provided to the DOE. Hence, CR 1 is closed.
Conclusion	RINA confirms that the above MR is based on the currently valid MR template /10/ and is completed in accordance with the applicable guidance document /10/ . Based on the onsite inspection and checking the above documents, RINA confirms that the project activity has been implemented and it is in operation as described above in accordance with the project activity in the registered PDD /1/ .

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

Not available.

E.4.2. Corrections

Not available.

E.4.3. Changes to the start date of the crediting period

E.4.4. Inclusion of a monitoring plan to a registered project activity

Not available

E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

Not available

E.4.6. Changes to the project design of a registered project activity

Not available

E.4.7. Types of changes specific to afforestation and reforestation project activities

Not available

E.5. Compliance of monitoring plan with the monitoring methodology including applicable tool and standardized baseline

Means of verification	The project applies the approved methodologies ACM0002 “Consolidated baseline methodology for grid-connected electricity from renewable sources” version 16.0 of 28/11/2014 /7/ . The following tools are also applicable to the project activity: Tool to calculate the emission factor for an electricity system, version 04.0 of 04/10/2013 /11/ ; “Tool for the demonstration and assessment of additionality”, version 07.0 of 23/11/2012 /12/ .
Findings	NA
Conclusion	The monitoring plan in the registered PDD /1/ is in accordance with the monitoring methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity from renewable sources” version 16.0 of 28/11/2014 /7/ .

E.6. Compliance of monitoring activities with the registered monitoring plan**E.6.1. Data and parameters fixed ex ante or at renewal of crediting period**

Means of verification	The parameters were available at the validation stage, which do not need to monitor during the crediting period, as per the registered PDD /1/ :			
	DATA/ PARAMETER	Source of data	Reported value for the project period	Assessment/ Observation
	Combined Margin Emission Factor	TEIAS statistics	0.5521 tCO ₂ /MWh	As per the approved methodology ACM0002 version 16.0, the combined emission factor has been determined using the ex-ante option and so it is not requested to monitor and recalculate the emission factors during the crediting period. The combined emission factor is determined to be 0.5521 tCO ₂ /MWh in the registered PDD /1/ and validation report /8/ .
Findings	NA			
Conclusion	Data and parameters fixed ex-ante are in accordance with the registered PDD /1/			

E.6.2. Data and parameters monitored

Means of verification	The following parameter is monitored in accordance with the registered PDD /1/ . The only monitoring parameter is “Quantity of net electricity generation supplied by the project plant to the grid in year y (EG _{facility,y} with unit MWh/yr)” as per the registered monitoring plan presented in the registered PDD /1/ . The parameter is monitored continuously as “MWh” by two electricity meters that are located at the project area. The main meter is EMH – LZQJ-XC model with serial number 4364955 and the backup meter is EMH – LZQJ-XC model with serial number 4364956. The meters have the accuracy of 0.5 s as confirmed through site inspection. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” /17/ and given information in
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	the PDD /1/. The electricity meters are sealed by TEIAS as confirmed during the site visit. The meters were calibrated on 05/12/2013 as confirmed through the Re-Validation Report /8/ performed by RINA. The recalibration of these meters will be done in line with the equipment requirements and through the period defined by national metrology institutes country by country and for Turkey this period is defined as 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /18/. At the last day of each month, the electricity generation supplied to the grid and electricity consumption from the grid is read and the monthly official electricity metering reports /15/. The monthly reading protocols are filled by the Project personnel and sent to TEIAS. In this way, it is checked if there are inconsistencies between the values read by OSOS and the reading protocols. Also the EPIAS (formerly named as PMUM) records /16/ are available as main sources for the calculation of emission reduction. Monthly meter reading protocols have been used for cross-check. During the monitoring period of 01/05/2018 to 30/04/2019 (both days included) the net electricity supplied to the grid ($EG_{\text{facility},y}$) amount to 206,386.46 MWh and the emission reductions to 113,945 (rounded down) tCO₂. According to the monitoring plan in the registered PDD /1/ and in the monitoring report version 2 of 12/06/2019 /3/, estimated $EG_{\text{facility},y}$ and the following sustainability parameters (SDGs) are monitored which are approved by GS /2/ /5/. Estimated SDGs: 1 – SDG 13: CO₂: 112,582 tCO₂/year, CO: 36.3tons/year and NMVOC: 7.7 tons/year 2 – SDG 7: Avoidance of natural gas import by using renewable energy system (WPP). 3 – SDG 8: Trained workers and at least 2 local employees 4 – SDG 6: Avoidance of 23,294 m³ wastewater discharge to the environment. Estimated $EG_{\text{facility},y}$: 238,000 MWh/yr The following parameters have been monitored in accordance with the monitoring plan in the registered PDD /1/ and Transition Annex /2/ and the monitoring report /3/. Actual values of SDGs achieved during this monitoring period have been presented for the following sections of this report.
Findings	NA
Conclusion	RINA's opinion that the monitoring of the project activity has been carried out in accordance with the monitoring plan in the revised PDD /1/.

E.6.3. Implementation of sampling plan

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

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	TEIAS is responsible for calibration and maintenance of the devices as per the registered PDD. The project owner has no control on the meters since the meters are sealed by the TEIAS. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. During this monitoring period no discrepancy was occurred. The meters were calibrated on 05/12/2013 as confirmed through the Re-Validation Report /8/ and also tested by TEIAS on ---- as confirmed through the test report /24/. The recalibration of these meters will be done in line with the equipment requirements and through the period defined by national metrology institutes country by country and for Turkey this period is defined as 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /18/.
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	During on-site assessment, it was confirmed that the meters are in place and functions well. During the monitoring period, no brake down has been recorded.
Findings	CR 2: The brand of the meters are EMH – LZQJ-XC as confirmed through site visit. Please revise through whole report accordingly. 05/12/2013 has been verified as calibration date of the meters. Therefore, footnote 9 is not related to calibration it is related to test report. Please provide the validity of calibration and provide test report including current monitoring period (if available). The test report dated 29/04/2018 for main and back-up meters is now provided to DOE. The validity of calibration is also presented Hence, CR 2 is closed.
Conclusion	RINA's opinion that the monitoring of the project activity has been carried out in accordance with the monitoring plan in the registered PDD /1/ .

E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The baseline emissions include the CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, multiplying the electricity supplied to the grid (MWh) with the combined margin CO₂ emission factor for grid connected power generation in year. $BE_y = EG_{\text{facility},y} \times EF_{\text{grid,CM},y}$ Where: BE_y = Baseline emissions in year y (tCO₂/yr). EG_{facility,y} = Quantity of net electricity generation supplied by the project activity to the grid in year y (MWh). EF_{grid,CM,y} = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" Baseline Emission in 2018 (starting from 01/05/2018 to 31/12/2018): BE₂₀₁₈ = 141,330.06 [MWh] * 0.5521 [tCO₂/MWh] = 78,028 tCO₂ Baseline Emission in 2019 (01/01/2019 to 30/04/2019): BE₂₀₁₉ = 65,056.40 [MWh] * 0.5521 [tCO₂/MWh] = 35,917 tCO₂ EG_{facility,y} = Quantity of net electricity generation supplied by the project plant to the grid in year 2018 by the project activity (starting from 01/05/2018 to 30/04/2019) as follows; EG_{facility} = 206,386.46 MWh The details of verified calculation is provided by the PP via calculation spreadsheet /9/
Findings	CR 3: The missing values (ERs belongs to March and April 2018) under the section E.3 shall be provided. Section E.3 is now revised and the total ERs are verified as 113,945 tCO₂. Hence, CR 3 is closed. CAR 2: The amounts of electricity generation of March and April 2019 couldn't be verified via supporting documents. Please provide and revise the ERs calculation as well as related SDG parameters. Supporting documents are now presented and the amounts of electricity generation of March and April 2019 are now verified. Hence, CAR 2 is closed. CAR 3: EG_{facility,y} (SDG 7) is given as 176,031.24 MWh. However, it shall be revised after CAR 2 resolved.

	EG _{facility,y} (SDG 7) is correctly calculated as 206,386.46 MWh verified through calculation spreadsheet. Hence, CAR 3 is closed.
Conclusion	RINA verified that the baseline emissions were calculated in accordance with the registered PDD and methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity from renewable sources" version 16.0 of 28/11/2014 /7/ .

E.8.2. Calculation of project GHG emissions or actual net GHG removals by sinks

Means of verification	The project emissions are assumed to be zero as per the ACM0002 /7/ since the project is a renewable energy project as defined in the registered PDD /1/ and validation report /8/ .
Findings	NA
Conclusion	RINA verified that the project emissions were assumed 0 in accordance with the registered PDD /1/ and methodology ACM0002 /7/

E.8.3. Calculation of leakage GHG emissions

Means of verification	The leakage emissions are assumed to be zero as per the ACM0002 /7/ as defined in the registered PDD /1/ . Since the project and leakage emissions are zero, the emission reduction equals to baseline emissions.
Findings	N/A
Conclusion	Leakage was considered as zero in accordance with the applied methodology /7/ .

E.8.4. Summary of calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	According to the applied methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources" /7/, the emission reductions have been calculated based on the following formula: Emission reductions are calculated as follows: $ER_y = BE_y - PE_y - LE_y$ Where: ER_y = Emission reductions in year y (t CO₂/yr). BE_y = Baseline emissions in year y (t CO₂/yr). PE_y = Project emissions in year y (t CO₂/yr). LE_y = Leakage emissions in year y (t CO₂/yr). Emission Reduction in 2018 (starting from 01/05/2018 to 31/12/2018): $ER_{2018} = 78,028 - 0 - 0 = 78,028 \text{ tCO}_2$ Baseline Emission in 2019 (01/01/2019 to 30/04/2019): $ER_{2019} = 35,917 - 0 - 0 = 35,917 \text{ tCO}_2$ $ER_{total} = 113,945 \text{ tCO}_2 \text{ (SDG 13)}$
Findings	NA
Conclusion	The emission reduction calculations provided in the spreadsheet /9/ have been verified to be correct and in line with the registered PDD /1/ and applied methodologies /7/ .

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report version 2 of 12/06/2019 /3/ is equivalent to 113,945 tCO ₂ . The reported emission reductions are higher (1.2%) than the estimated emission reduction of 112,582 tCO ₂ for the period 01/05/2018 – 30/04/2019 (365 days) as per the registered PDD /1/ due to higher wind power than expected and it is acceptable. The calculation is verified through calculation spreadsheet /9/ .
Findings	CR 4: Please provide the calculation details of estimated ER reductions for current monitoring period in the section E.5 and E.6 of MR and revise the explanation in line

	with the project activity. The calculation details of estimated ER reductions for current monitoring period are now provided in the section E.5 and E.6 of MR and the explanation is revised in line with the project activity. Hence, CR 4 is closed.
Conclusion	The actual emission reduction is a little bit higher than the estimated reduction given in the registered PDD /1/. The reason of the difference between the actual and estimation emission reduction is explained related to higher wind speed than expected.

E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	The emission reductions from the project for the monitoring period as reported in the monitoring report version 2 of 12/06/2019 /3/ is equivalent to 113,945 tCO ₂ . The reported emission reductions are higher (1.2%) than the estimated emission reduction of 112,582 tCO ₂ for the period 01/05/2018 – 30/04/2019 (365 days) as per the registered PDD /1/ due to higher wind power than expected and it is acceptable. The calculation is verified through calculation spreadsheet /9/.
Findings	CR 4: Please provide the calculation details of estimated ER reductions for current monitoring period in the section E.5 and E.6 of MR and revise the explanation in line with the project activity. The calculation details of estimated ER reductions for current monitoring period are now provided in the section E.5 and E.6 of MR and the explanation is revised in line with the project activity. Hence, CR 4 is closed.
Conclusion	The actual emission reduction is a little bit higher than the estimated reduction given in the registered PDD /1/. The reason of the difference between the actual and estimation emission reduction is explained related to higher wind speed than expected.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	RINA verified that the actual monitoring period does not fall into the first commitment period.
Findings	NA
Conclusion	RINA verified that the actual monitoring period does not fall into the first commitment period.

E.8.8. Assessment of the sustainability parameters

Means of verification	The assessment of the monitored parameters is described in the tables below:		
	Data variable	Source of Data	Reported value for the project period
	Air Quality (SDG 13) Amount of CO ₂ emissions Amount of CO, NMVOC emissions	Ex-ante fixed respective emission factor and Electricity Generation, ERs Calculations /9/	• CO₂= 113,945 t • CO =33.06 t • NMVOC =7.06 t
	Assessment		
	Amount of CO ₂ , CO, NMVOC emissions: The parameter is monitored annually by calculation with ex-ante fixed respective emission factors and amount of net electricity generation.		
	Data variable	Source of Data	Reported value for the project period
	Water Quality and Quantity (SDG 6) Amount of	Invoices of Wastewater Discharge /19/ /20/	No wastewater discharge to the environment for the monitoring period.

	wastewater transferred by sewage trucks		
	Assessment		
	<u>Amount of wastewater transferred by sewage trucks:</u> The parameter is monitored by the sewage truck records (if it is performed). It is confirmed that the waste water is stored in a septic tank on site and no disposal to the environment. In addition to this, the invoices /19/ /20/ for this monitoring period are provided to the verification team. There are 2 discharges have been realized during this period.		
	Data variable	Source of Data	Reported value for the project period
	Quality of Employment (SDG 8) Training records for all employees	Certificates and attendance lists of the trainings /25-27/	Employees participated to the HSE and additional trainings.
	Assessment		
	<u>Training records for all employees:</u> The parameter is monitored annually base by checking the certificates and attendance lists of the trainings. Even if it is enough to provide the training records for locals according to the parameter, the PP is provided the HSE trainings of 17 employees (including sub-contractor). The missing HSE training related to new employee will be finalized within 2019 and provided in the next verification. This parameter is being checking every monitoring period so there is no need to raise a FAR.		
	Data variable	Source of Data	Reported value for the project period
	Quantitative Employment and Income Generation (SDG 8) Number of employees	Employment Registration Document /14/ /22/	There are total 20 employees who are working for Innore but there are 2 office employees who are not physically work in the plant, they are working in the HQ. Hence, 18 employees (including sub-contractor) are working in the plant.
	Assessment		
	<u>Number of employees:</u> This parameter is monitored on each verification by the Registration Document /22/ of employees.		
	Data variable	Source of Data	Reported value for the project period
	Human and institutional capacity (including empowerment, education, involvement, gender) (SDG 8) Local employees	Training records for local employees /14/ /25/ /26/	There are total 20 employees who are working for Innore but there are 2 office employees who are not physically work in the plant, they are working in the HQ. There are 10 local employees and 9 of them works physically in the plant /14/.
	Assessment		
	<u>Number of employees:</u> This parameter is monitored on each verification by the Training records for local employees.		
	Data variable	Source of Data	Reported value for the project period

	(SDG 7) Electricity Generation /9/ /15/ /16/ 206,386.46 MWh EG_{facility,y}: Quantity of net electricity generation supplied by the project plant to the grid in year y						
	Assessment <i>(EG_{facility}) Quantity of net electricity generation supplied by the project plant to the grid in year y:</i> EG_{facility,y} (SDG 7) is correctly calculated as 206,386.46 MWh verified through calculation spreadsheet.						
	<table><tr><th>Data variable</th><th>Source of Data</th><th>Reported value for the project period</th></tr><tr><td>Other Pollutants Soil Condition Waste collection</td><td>Letter from the municipality /27/</td><td>According to the interviews There is no complaints about wastes due to project activity.</td></tr></table>	Data variable	Source of Data	Reported value for the project period	Other Pollutants Soil Condition Waste collection	Letter from the municipality /27/	According to the interviews There is no complaints about wastes due to project activity.
	Data variable	Source of Data	Reported value for the project period				
	Other Pollutants Soil Condition Waste collection	Letter from the municipality /27/	According to the interviews There is no complaints about wastes due to project activity.				
Assessment <i>Waste collection:</i> The parameter is monitored by letter from the municipality for the waste collection. Garbage is being collected by the municipality.							
<table><tr><th>Data variable</th><th>Source of Data</th><th>Reported value for the project period</th></tr><tr><td>Other Pollutants Biodiversity Number of observed bird strikes</td><td>Letter from the municipality /27/ and instead of ornithology report, official letter related to no need ornithological monitoring anymore /29/</td><td>According to the interviews There is no complaints about wastes due to project activity.</td></tr></table> Assessment <i>Waste collection:</i> The parameter is monitored by letter from the mukhtar and ornithology reports. Official letter received from Ministry of Forestry and Water Affairs dated 18/01/2017, stating bird observation and ornithological monitoring are not needed anymore, is now provided. Additionally, during site visit the DOE interviewed with locals and asked them if they came across any problem regarding bird strikes and there is no negative feedback is received.	Data variable	Source of Data	Reported value for the project period	Other Pollutants Biodiversity Number of observed bird strikes	Letter from the municipality /27/ and instead of ornithology report, official letter related to no need ornithological monitoring anymore /29/	According to the interviews There is no complaints about wastes due to project activity.	
Data variable	Source of Data	Reported value for the project period					
Other Pollutants Biodiversity Number of observed bird strikes	Letter from the municipality /27/ and instead of ornithology report, official letter related to no need ornithological monitoring anymore /29/	According to the interviews There is no complaints about wastes due to project activity.					
Findings	CAR 4: - All relevant SDGs (SDG 13, SDG7, SDG 6) shall be revised in line with the total net electricity generation. Please see CAR 2. - SDG 7 couldn't be verified via under the section C of approved Transition Annex. Please clarify. - Water Quality and Quantity: <i>Avoidance wastewater discharge:</i> Please provide the wastewater discharge invoices as reference in the MR. - Quality of Employment: <i>Training records for all employees:</i> The parameter should be in line with the approved "chosen parameter" Training details shall be presented in the MR properly and remove the explanation under section E.5. "This part will be provided after site visit.". Please provide the missing HSE trainings records for all employees (including sub-contractor) which are checked during onsite inspection. - Quantitative Employment and Income Generation:						

	<u>Number of employees:</u> Please revise the chosen parameter as GS approved and provide the objective evidence to be checked total number of employee. According to the approved Transition Annex, there will be minimum of about 13 workers. - Human and institutional capacity (including empowerment, education, involvement, gender) (SDG 8) <u>Local employees:</u> Please revise the chosen parameter as GS approved and provide the objective evidence to be checked total number of local employees. - Soil condition <u>Waste collection:</u> The parameter is monitored by letter from the municipality for the waste collection. However, any letter is not provided to the DOE as stated in the MR. - Biodiversity <u>Number of observed bird strikes:</u> Please revise the chosen parameter as GS approved. There is an explanation in the MR "Letter from the muhtar and ornithology reports are provided." However, the mentioned documents are not provided. Since any ornithology report is not prepared in 2018 please explain the reason. - Please revise all related sections in the MR (such as cover page, Section A.1, D.2., E. etc.) after applying the corrections. - All relevant SDGs (SDG 13, SDG7, SDG 6 are revised in line with the total net electricity generation. - There is no quantified target for SDG 7 (Affordable and clean energy) and it is just present in the MR to indicate renewable energy generation. - Water Quality and Quantity: <u>Avoidance wastewater discharge:</u> The wastewater discharge invoices dated 14/01/2019 and 12/12/2018 are provided to the DOE. - Quality of Employment: <u>Training records for all employees:</u> The raining records for the local workers are provided such as occupational health and safety trainings as in line with the approved parameter. Even if it is enough to provide the training records for locals according to the parameter, the PP is provided the HSE trainings of 17 employees (including sub-contractor). The missing HSE training related to new employee will be finalized within 2019 and provided in the next verification. This parameter is being checking every monitoring period so there is no need to raise a FAR. - Quantitative Employment and Income Generation: <u>Number of employees:</u> It is verified through social security records (SGK) that there are total 20 employees who are working for Innorees but there are 2 office employees who are not physically work in the plant, they are working in the HQ. There are 10 local employees and 9 of them works physically in the plant. - Human and institutional capacity (including empowerment, education, involvement, gender) (SDG 8) <u>Local employees:</u> It is verified through social security records (SGK) that there are 10 local employees and 9 of them works physically in the plant. - Soil condition <u>Waste collection:</u> The mentioned letter received from the municipality for the waste collection dated 25/04/2018 is now provided. - Biodiversity <u>Number of observed bird strikes:</u> Official letter received from Ministry of Forestry and Water Affairs dated 18/01/2017, stating bird observation and ornithological monitoring are not needed anymore, is now provided. Additionally, during site visit the DOE interviewed with locals and asked them if they came across any problem regarding bird strikes and there is no
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	negative feedback is received. All related sections in the MR (such as cover page, Section A.1, D.2., E. etc.) is now amended after applying the corrections. <u>Hence, CAR4 is closed.</u> CR 5: A clear statement on how stakeholders may provide inputs/grievances shall be presented under section F.1 of MR in line with the “Stakeholder Consultation & Engagement Procedure, Requirements & Guidelines”. Since the continuous input/grievance mechanism has been verified through interview with the headman of village. However, the log book couldn’t be checked due to it was lost. During the site visit a new log book has been presented to the mukhtar, please clearly explain this issue in the MR. A FAR (FAR 1) is raised related to the Grievance Mechanism. A clear statement on how stakeholders may provide inputs/grievances is now presented under section F.1. FAR 1 will be verified at next verification period. <u>Hence, CR 5 is closed.</u>
Conclusion	RINA verified that the GS indicators described in the monitoring report /3/ are accurate and real. Data to cross check the monitored parameters are available at the office of the company. Also the registers of the sustainability indicators were available during the onsite inspection.

SECTION F. Internal quality control

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

SECTION G. Verification opinion

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity Yunttag Wind Power Project, Turkey, GS Registration Reference No. 352 for the period 01/05/2018 – 30/04/2019, with regard to the relevant GS requirements and principles. The project participants are responsible for the preparation for the collection of data in accordance with the monitoring plan and the reporting emission reductions from the project. It is RINA's responsibility to express an independent verification opinion on the reported emission reductions from the project and does not express any opinion on the selected baseline scenario or on the validated and registered PDD. Based on documented evidences and corroborated by an on-site assessment RINA can confirm that: (i) the project has been implemented and operated as per the registered PDD; (ii) the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable GS requirements and principles; (iii) the monitoring is in place as per the applied baseline and monitoring methodology; (iv) the monitoring complies with the registered monitoring plan; (v) the monitoring plan in the registered PDD is as per the applied baseline and monitoring methodology.

SECTION H. Certification statement

It is RINA's opinion that the GHG emission reductions stated in the latest version of monitoring report (version 2 of 12/06/2019) [/3/](#) for the project activity "Yunttag Wind Power Project, Turkey" for the period 01/05/2018 – 30/04/2019 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology ACM0002, Grid-connected electricity generation from renewable sources - version 16.0 of 28/11/2014 [/7/](#). Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/05/2018 to 30/04/2019 amount to 113,945 tCO₂.

Appendix 1. Abbreviations

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

Appendix 2. Competence of team members and technical reviewers



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

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

Fulya Ekinci Ozen

è qualificato come:
is qualified as:

TEC, VAL, VER, LOCAL EXPERT, TL, ITRP

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
13.1	Solid waste and wastewater	13

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	27/01/2017	First issue
5	08/12/2017	Update qualification as VAL

Head of QPT
Laura Severino

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

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

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

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

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

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

Hui Feng Liu

è qualificato come:
is qualified as:

TEC, VAL, VER, TL, ITRP

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

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
8.1	Mining and mineral processes	8
9.2	Iron, steel and Ferro alloy production	9
13.1	Solid waste and wastewater	13

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

Responsabile di schema
Scheme Leader
Rita Valoroso



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

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

RINA Services S.p.A. è accreditato/ricosciuto da
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UNFCCC	quali Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects
VCSA	per condurre la Validazione e la Verifica di Progetti VCS to carry out Validation and Verification of VCS Projects
GIS Foundation	per condurre la Validazione e la Verifica di Progetti GIS to carry out Validation and Verification of GIS Projects
Ecologica Institute	per condurre la Validazione e la Verifica di rapporti SCS to carry out Validation and Verification of SCS Reports
American Carbon Registry ACR	per condurre la Validazione e la Verifica di Progetti ACR to carry out Validation and Verification of ACR projects
The Climate, Community & Biodiversity Alliance CCB	per condurre la Validazione e la Verifica di Progetti co-benefit CCB to carry out Validation and Verification of co-benefit CCB projects

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	Life İklim ve Enerji	GS-PDD for “Yuntdag Wind Power Project , Turkey” in Turkey	version 09 of 08/04/2016	Project participant
2	Life İklim ve Enerji	Approved Berges_WPP-Transition_Annex.v3	version 3 of 16/11/2018	Project participant
3	Life İklim ve Enerji	Monitoring Report for “Yuntdag Wind Power Project, Turkey” in Turkey	version 2 of 12/06/2019 version 1 of 15/04/2019	Project participant
4	Gold Standard Foundation	GS4GG Standard Requirements	Version 1.1 of 01/03/2018	Publicly available
5	Gold Standard Foundation	GS4GG Transition Review Form (Final)	version 3 of 16/11/2018	Other
6	CDM Executive Board	Clean Development Mechanism Validation and Verification Standard	version 02.0 of 29/11/2018	Publicly available
7	CDM Executive Board	Baseline and monitoring methodology “ACM0002” “Grid-connected electricity from renewable sources”	version 16.0 of 28/11/2014	Publicly available
8	RINA	Re- Validation Report for “Yuntdag Wind Power Project , Turkey” Report N° 2015-TQ-23-MD, Revision N° 1.3 Aa	issued on 19/04/2016	Others
9	Life İklim ve Enerji	Emission Reduction Calculation Spreadsheet “ER calculations_Yuntdag”	version 2 of 12/06/2019 version 1 of 15/04/2019	Project participant
10	Gold Standard Foundation	GS4GG Monitoring Report Form	version 1 of 06/2017	Publicly available
11	CDM Executive Board	Methodological Tool “Tool to calculate the emission factor for an electricity system”	version 04.0 of 04/10/2013	Publicly available
12	CDM Executive Board	Methodological Tool “ Tool for the demonstration and assessment of additionality”	version 07.0 of 23/11/2012	Publicly available
13	Energy Market Regulatory Authority	Generation License EU/325-2/457	date 04/06/2004 of	Project participant
14	Social Security Institution	Declarating the Number of Local Employees	submitted on 12/06/2019	Project participant
15	TEIAS	Monthly Meter Reading Protocols	from 01/05/2018 - 30/04/2019	Project participant
16	Enerji Piyasaları İşletme A.S.(EPIAS)	Monthly Electricity Records within the Monitoring Period	from 01/05/2018 - 30/04/2019	Project participant
17	Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	date 22/03/2003 of	Publicly available
18	The Ministry of Trade and Industry	Regulation of Metering and Testing of Metering Systems	date 24/07/1994 of	Publicly available
19	İZSU (İzmir Water and Sewerage Administration)	Invoice of Wastewater Discharge No: 1767	date 12/12/2018 of	Project participant
20	İZSU (İzmir	Invoice of Wastewater Discharge No: 84358	date of	Project

	Water and Sewerage Administration)		14/01/2019	participant
21	TEIAS	Electricity Meters Replacement Protocol	date of 05/12/2013	Project participant
22	Social Security Institution	Recruitment Declaration for 20 Employees	submitted on 12/06/2019	Project participant
23	The Gold Standard Foundation	3-week issuance review period under GS Version 2.2	version 2 of 19/09/2018	Others
24	TEIAS	Test Report of the meters	date of	Project participant
25	Doga Akademi Secim OSGB EkoGlobal ISG	Health and Safety Training Certificates for 17 Employees (including sub-contractor) of working at project site (except the new employee)	submitted on 12/06/2019	Project participant
26	Akademi	First Aid Training Certificates for 16 Employees	submitted on 12/06/2019	Project participant
27	Bergama Municipality	Letter from Municipality regarding the waste collection numbered E.67/4458	date of 25/04/2018	Project participant
28	Re-carbon	2 nd Verification Report version 2, (Monitoring Period: 01/04/2017 - 30/04/2018 (both days included))	date of 04/09/2018	Project participant
29	The Ministry of Forestry and Water Affairs	Official letter related to no need ornithological monitoring anymore	date of 18/01/2017	Project participant

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

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

FAR ID	1	Section no.	Date:
Description of FAR			
NA			
Project participant response			Date:
Documentation provided by project participant			
DOE assessment			Date:

Table 2. CR from this verification

CR ID	1	Section no.	E.3	Date: 21/05/2019
Description of CR				
Please add a clear explanation regarding the Transition Process from GS ver. 2.2 to GS4GG under the section A.1. in the MR and also add under the table 2.				
Project participant response				Date: 12/06/2019
<i>Transition Process from GS ver. 2.2 to GS4GG is now clarified under Section A.1. Start date and end date of the transition process are now added in Table 2.</i>				
Documentation provided by project participant				
DOE assessment				Date: 19/07/2019
A clear explanation regarding the Transition Process from GS ver. 2.2 to GS4GG under the section A.1. and table 2 in the MR is now added. The final transition review feedback form dated 16/11/2018 is now provided to the DOE.				
Hence, CR 1 is closed.				

CR ID	2	Section no.	E.7.	Date: 21/05/2019
Description of CR				
The brand of the meters are EMH – LZQJ-XC as confirmed through site visit. Please revise through whole report accordingly. 05/12/2013 has been verified as calibration date of the meters. Therefore, footnote 9 is not related to calibration it is related to test report. Please provide the validity of calibration and provide test report including current monitoring period (if available).				
Project participant response				Date: 12/06/2019
<i>Meter information is now updated. There was a typo in footnote 9. "Calibration report" statement is now deleted and corrected as test report. Last test is conducted on the meters on 29.04.2018. This test report was shared with the DOE. Throughout this monitoring period, no test is conducted on the meters. Thus, no further test reports can be send to DOE for now. In 2019, no test is conducted on the meters for now. After conducting the test, test report of 2019 will be shared with the DOE in the next verification.</i>				
Documentation provided by project participant				
DOE assessment				Date: 19/07/2019
The test report dated 29/04/2018 for main and back-up meters is now provided to DOE. The validity of calibration is also presented				
Hence, CR 2 is closed.				

CR ID	3	Section no.	E.8.1	Date: 21/05/2019
Description of CR				
The missing values (ERs belongs to March and April 2018) under the section E.3 shall be provided.				
Project participant response				Date: 12/06/2019
<i>Section E.3. is now revised and March and April values are now added.</i>				
Documentation provided by project participant				
DOE assessment				Date: 19/07/2019
Section E.3 is now revised and the total ERs are verified as 113,945 tCO ₂ .				
Hence, CR 3 is closed.				

CR ID	4	Section no.	E.8.5 – E.8.6	Date: 21/05/2019
Description of CR				
Please provide the calculation details of estimated ER reductions for current monitoring period in the section E.5 and E.6 of MR and revise the explanation in line with the project activity.				
Project participant response				Date: 12/06/2019
Section E.5. and E.6. are now revised with the latest data and show correct information. Section E.6. is now elaborated and compares the actual and estimated emission reductions.				
Documentation provided by project participant				
DOE assessment				Date: 19/07/2019
The calculation details of estimated ER reductions for current monitoring period are now provided in the section E.5 and E.6 of MR and the explanation is revised in line with the project activity.				
Hence, CR 4 is closed.				

CR ID	5	Section no.	E.8.8.	Date: 21/05/2019
Description of CR				
A clear statement on how stakeholders may provide inputs/grievances shall be presented under section F.1 of MR in line with the "Stakeholder Consultation & Engagement Procedure, Requirements & Guidelines". Since the continuous input/grievance mechanism has been verified through interview with the headman of village. However, the log book couldn't be checked due to it was lost. During the site visit a new log book has been presented to the mukhtar, please clearly explain this issue in the MR. A FAR (FAR 1) is raised related to the Grievance Mechanism.				
Project participant response				Date: 12/06/2019
<i>Section F.1. is now revised and now include how stakeholders may provide inputs/grievances. Providing a new logbook is now stated clearly in the MR. FAR 1 is now answered.</i>				
Documentation provided by project participant				
DOE assessment				Date: 19/07/2019

A clear statement on how stakeholders may provide inputs/grievances is now presented under section F.1. FAR 1 will be verified at next verification period.
Hence, CR 5 is closed.

Table 3. CAR from this verification

CAR ID	1	Section no.	E.3	Date:	21/05/2019
Description of CAR					
Please clarify/correct the issues listed below:					
- The unit of ERs is indicated as tCO₂e in the MR. However, the unit of the combined emission factor is tCO₂/MWh not tCO₂e/MWh. - EPIAS records are used for calculating ERs. PMUM is not valid abbreviation. - Please provide the chronological order of monitoring period number in addition to duration of this monitoring period and indicate whether the both days included or not. - The operation and management diagram is not provided in the MR. - Please indicate the crediting period start date in DD/MM/YYYY under the section C of MR. - Please provide the revision no and date of registered PDD and Transition Annex presented under section E.2 in the MR.					
Project participant response					Date: 12/06/2019
- The unit of ER is now corrected in the MR. - PMUM abbreviations are now corrected as EPIAŞ. - Crediting period and monitoring period numbers are now stated in the cover page and “both days are included” statement is now added. - Operation and management diagram is now added under Section C.1.2. - Crediting period start date is now revised as DD/MM/YYYY under the section C of MR. - Revision no and dates of registered PDD and Transition Annex are now added under Section E.2.					
Documentation provided by project participant					
DOE assessment					Date: 19/07/2019
- The unit of ERs is now indicated as tCO₂ in the MR. - EPIAS records are used for calculating ERs. Correct abbreviation is now used. - The chronological order of monitoring period number in addition to duration of this monitoring period is now provided and it is indicated whether the both days included or not. - The operation and management diagram is now provided in the MR. - The crediting period start date is now indicated as 21/03/2016 under the section C of MR. - The revision no and date of registered PDD and Transition Annex are now presented under section E.2 in the MR.					
Hence, CAR 1 is closed.					

CAR ID	2	Section no.	E.8.1	Date:	21/05/2019
Description of CAR					
The amounts of electricity generation of March and April 2019 couldn't be verified via supporting documents. Please provide and revise the ERs calculation as well as related SDG parameters.					
Project participant response					Date: 12/06/2019
March and April electricity generation documents are now shared with the DOE. Relevant SDG parameters and values are now updated.					
Documentation provided by project participant					
DOE assessment					Date: 19/07/2019
Supporting documents are now presented and the amounts of electricity generation of March and April 2019 are now verified.					
Hence, CAR 2 is closed.					

CAR ID	3	Section no.	E.8.1	Date:	21/05/2019
Description of CAR					
EG _{facility,y} (SDG 7) is given as 176,031.24 MWh. However, it shall be revised after CAR 2 resolved.					
Project participant response					Date: 12/06/2019

EGfacility,y (SDG 7) is now revised since all generation date is now completed and submitted to DOE.	
Documentation provided by project participant	
DOE assessment	Date: 19/07/2019
EGfacility,y (SDG 7) is correctly calculated as 206,386.46 MWh verified through calculation spreadsheet. Hence, CAR 3 is closed.	

CAR ID	4	Section no.	E.8.8	Date: 21/05/2019
Description of CAR				
CAR 4: - All relevant SDGs (SDG 13, SDG7, SDG 6) shall be revised in line with the total net electricity generation. Please see CAR 2. - SDG 7 couldn't be verified via under the section C of approved Transition Annex. Please clarify. - Water Quality and Quantity: <u>Avoidance wastewater discharge:</u> Please provide the wastewater discharge invoices as reference in the MR. - Quality of Employment: <u>Training records for all employees:</u> The parameter should be in line with the approved "chosen parameter" Training details shall be presented in the MR properly and remove the explanation under section E.5. "This part will be provided after site visit.". Please provide the missing HSE trainings records for all employees (including sub-contractor) which are checked during onsite inspection. - Quantitative Employment and Income Generation: <u>Number of employees:</u> Please revise the chosen parameter as GS approved and provide the objective evidence to be checked total number of employee. According to the approved Transition Annex, there will be minimum of about 13 workers. - Human and institutional capacity (including empowerment, education, involvement, gender) (SDG 8) <u>Local employees:</u> Please revise the chosen parameter as GS approved and provide the objective evidence to be checked total number of local employees. - Soil condition <u>Waste collection:</u> The parameter is monitored by letter from the municipality for the waste collection. However, any letter is not provided to the DOE as stated in the MR. - Biodiversity <u>Number of observed bird strikes:</u> Please revise the chosen parameter as GS approved. There is an explanation in the MR "Letter from the muhtar and ornithology reports are provided." However, the mentioned documents are not provided. Since any ornithology report is not prepared in 2018 please explain the reason. - Please revise all related sections in the MR (such as cover page, Section A.1, D.2., E. etc.) after applying the corrections.				
Project participant response				Date: 12/06/2019

- All relevant SDGs are now revised in line with the total net electricity generation.
- SDG 7 is not present under the Section C of the approved Transition Annex. However, SDG 7 and relevant targets are elaborated in cover page, Section A.1, Section A.2.2 and Section A.3 of the approved Transition Annex. SDG 7 is selected to indicate the use of renewable energy systems, in this case, wind power plant. Although there is no quantified target for SDG 7, it is present in the MR to indicate renewable energy generation.
- Two İZSU wastewater invoices has already been sent to DOE before site visit.
- Parameter is now revised and training records of employees are now listed in MR. Moreover, these records are also sent to DOE.
- Social security records of all employees are now shared with the DOE. There are 18 employees in the plant and there are additional 2 office employees who are not physically work in the plant. There are total 20 employees.
- Social security records of all employees are now shared with the DOE. There are 18 employees in the plant and there are additional 2 office employees who are not physically work in the plant. It can be checked from these records whether employees are local or not. There are 10 local employees and 9 of them works physically in the plant.
- Waste collection letter from the municipality is now shared with the DOE.
- While in transition, it is anticipated to provide letters from muhtar and ornithology reports to DOE. However, Ornithological monitoring is not needed anymore at Yuntdağ WPP by the decision of the ministry. Thus, letters from muhtar and ornithology reports will no longer be provided. Official letter from Ministry of Forestry and Water Affairs, stating bird observation and ornithological monitoring are not needed anymore, was provided to DOE before site visit.
- All relevant sections are now revised.

Documentation provided by project participant

DOE assessment

Date: 19/07/2019

- All relevant SDGs (SDG 13, SDG7, SDG 6 are revised in line with the total net electricity generation.
- There is no quantified target for SDG 7 (Affordable and clean energy) and it is just present in the MR to indicate renewable energy generation.
- **Water Quality and Quantity:**
Avoidance wastewater discharge: The wastewater discharge invoices dated 14/01/2019 and 12/12/2018 are provided to the DOE.
- **Quality of Employment:**
Training records for all employees: The raining records for the local workers are provided such as occupational health and safety trainings as in line with the approved parameter. Even if it is enough to provide the training records for locals according to the parameter, the PP is provided the HSE trainings of 17 employees (including sub-contractor). The missing HSE training related to new employee will be finalized within 2019 and provided in the next verification. This parameter is being checking every monitoring period so there is no need to raise a FAR.
- **Quantitative Employment and Income Generation:**
- Number of employees: It is verified through social security records (SGK) that there are total 20 employees who are working for Innorets but there are 2 office employees who are not physically work in the plant, they are working in the HQ. There are 10 local employees and 9 of them works physically in the plant.
- **Human and institutional capacity (including empowerment, education, involvement, gender) (SDG 8)**
Local employees: It is verified through social security records (SGK) that there are 10 local employees and 9 of them works physically in the plant.
- **Soil condition**
Waste collection: The mentioned letter received from the municipality for the waste collection dated 25/04/2018 is now provided.
- **Biodiversity**
Number of observed bird strikes: Official letter received from Ministry of Forestry and Water Affairs dated 18/01/2017, stating bird observation and ornithological monitoring are not needed anymore, is now provided. Additionally, during site visit the DOE interviewed with locals and asked them if they came across any problem regarding bird strikes and there is no negative feedback is received.

All related sections in the MR (such as cover page, Section A.1, D.2., E. etc.) is now amended after applying the corrections.

Hence, CAR4 is closed.

Project participant response	Date:
Documentation provided by project participant	
DOE assessment	Date:

Table 4. FAR from this verification

FAR ID	1	Section No.		Date:
Description of FAR				
According to the GS4GG, Project Developers are required to seek inputs from stakeholders on the best methods for continuous consultation, input and the submission and resolution of grievances. Additionally, a Continuous Input and Grievance Expression Process Book is mandatory. Please ensure the availability of the log book even if any comment or input are not received via it.				
Project participant response				Date: 12/06/2019
Stakeholder engagement procedure was conducted at the Yuntdağ Wind Power Project control room with the local stakeholders and heads of the Balaban and İsmaili villages on 8th of May 2019. As validated during the site visit, muhtars (heads of the village) of Balaban and İsmaili villages had already taken the contact information of Company Executive of the company so that the local stakeholders will be able to reach company executive whenever they have any complaints, suggestions or ideas about the project. Since muhtar is the head of the village, he will be the main contact person between the project owner and the local stakeholders. Muhtar will make sure that there is continuous communication between the two parties. Moreover, logbook was delivered to the head of İsmaili village since muhtar of the village was changed and logbook was lost. This logbook will be checked in the next verifications to see whether there has been any complaints from the local stakeholders. During the site visit, it is validated that there was no negative comments from the stakeholders.				
Documentation provided by project participant				
DOE assessment				Date:

Document information

Version	Date	Description
01.0	10/06/2016	Initial publication.