Verification and certification report form for GS project activities

VERICATION AND CERTIFICATION REPORT	
Title of the project activity	Canta WPP
GS Reference number of the project activity	1235
Version number of the verification and certification report	1.3Aa
Completion date of the verification and certification report	13/06/2018
Monitoring period number and duration of this monitoring period	1st Period 02/02/2015 - 31/10/2016
Version number of monitoring report to which this report applies	Version 05 of 01/06/2018
Crediting period of the project activity corresponding to this monitoring period	02/02/2015 -01/02/2022
Project participant(s)	Boydak Enerji Uretim ve Ticaret Anonim Sirketi (Private Entity, Project Owner) GTE Karbon (Private Entity, Project Developer)
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 13.0.0
Estimated GHG emission reductions or net anthropogenic GHG removals for this monitoring period in the registered PDD	167,840
Certified GHG emission reductions or net anthropogenic GHG removals for this monitoring period	162,305
Name of DOE	RINA Services S.p.A. (RINA)
Name, position and signature of the approver of the verification and certification report	Laura Severino – Sustainability & Food Certification Compliance Head

SECTION A. Executive summary

Purpose and general description of the project

The project activity is a wind power plant consists of 19 wind turbines with a capacity of 2.5 MW and with a total capacity of 47 MWm/45 MWe as confirmed through the registered PDD /1/. The generated electricity is fed to the national grid. The estimated net electricity production is 163,200 MWh and the annual emission reductions are estimated to be 96,072 tCO_2e per year.

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.

Location

The project is located at Canta Village of Silivri District within boundaries of Istanbul Province.

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 GS 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 Canta WPP for the period 02/02/2015 - 31/10/2016.
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 asses 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 Boydak Enerji Uretim ve Ticaret Anonim Sirketi has performed the verification of the emission reductions reported for the project activity Canta WPP, GS Registration Reference No. 1235 for the monitoring period 02/02/2015 - 31/10/2016, with regard to the relevant GS requirements and principles for project activities. The project was validated by re-consult (validation report N° 145, version 0.6 of 20/11/2015).

The GHG emission reductions are calculated on the basis of the approved methodology ACM0002, Consolidated methodology for grid-connected electricity generation from renewable sources --- Version 13.0.0 and the monitoring plan included in the registered PDD version 07 of 09/06/2014. In our opinion the GHG emission reductions reported for the project in the monitoring report version 05 of 01/06/2018 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 Expert TA 1.2	IR	Kiratli	Tugce	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 Office
2	Approver	IR	SEVERINO	Laura	RINA Head Office

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	The project proponent is familiar with monitoring procedures and data reporting in line with the registered PDD and previous verification and certification reports. 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 collection procedure and
2	Undue reliance on a poorly designed information system, which may have few effective quality controls.	Low	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.	
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.	QA/QC procedure have been well implemented.

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 410 and section 11.2.3 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 and cross-check against invoices raised. 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.

The data presented in the monitoring report /3/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Therefore, it is RINA's opinion that the claimed emission reductions are free from material errors, omissions or misstatements, with reasonable level of assurance.

SECTION D. Means of verification

D.1. Desk review

The monitoring report version 05 of 01/06/2018 /3/, the emission reduction calculations provided in the form of a spreadsheet "Conf _Canta WPP_VER_Calcs_Monitoring_Report_I_01.06.2018.xlsx" version 03, submitted on 08/06/2018 /9/, the approved baseline and monitoring methodology ACM0002 version 13.0 of 11/05/2012 /7/ and all the documentation provided to support the monitoring period /1 – 39/, was assessed as part of the verification. In addition, the Project Design Document (PDD) version 07 of 09/06/2014 /1/, in particular as regards the baseline estimations and the monitoring plan, the Passport, version 04 of 12/12/2013 /2/ and the validation report revision 0.6 of 20/11/2013 /8/ 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: 02/02/2017				
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	Canta Village of Silivri District, Istanbul Province	02/02/2017	Tugce Kiratli
2	Reviewed the information flows for generating, aggregating and reporting the monitoring parameters	Canta Village of Silivri District, Istanbul Province	02/02/2017	Tugce Kiratli
3	Checked calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions	Canta Village of Silivri District, Istanbul Province	02/02/2017	Tugce Kiratli
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	Canta Village of Silivri District, Istanbul Province	02/02/2017	Tugce Kiratli
5	Cross-checked between information provided in the monitoring report and data evidence, including the Gold Standard parameters	Canta Village of Silivri District, Istanbul Province	02/02/2017	Tugce Kiratli

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	**First name**	**Affiliation**			
1.	PERDELI	CANSU	GTE Carbon Carbon Consultant	02/02/2017	Implementation status of the project Monitoring equipments and operation Generated Electricity Monitoring of Gold Standard Parameters	Tugce Kiratli
2.	KOC	ENGIN	GTE Carbon Carbon Consultant	02/02/2017		Tugce Kiratli
3.	IRGAC	N. TAYYAR	Boydak Enerji Project Manager	02/02/2017		Tugce Kiratli
4.	SAVAS	UFUK	Boydak Enerji Operating Chief	02/02/2017		Tugce Kiratli
5.	ALBAG	NIGAR	Almer Proje Biologist	02/02/2017		Tugce Kiratli
6	SUSULU	HASAN	Balaban Village The Mukhtar	02/02/2017	Benefits of the project activity Noise Problem Logbook Top Soil Expropriation Roads Tumulus	Tugce Kiratli
7	ERCAN	OMER	Sancaktepe Village The Mukhtar	02/02/2017		Tugce Kiratli
8	KAYNAR	SELCUK	Boydak Enerji General Service	02/02/2017		Tugce Kiratli

The project area was visited on 02/02/2017. The project employee were interviewed about the implementation status of the project, monitoring equipment and operation, generated electricity, monitoring of gold standard parameters, trainings given to the employees.

In addition, the muhktars were interviewed about benefits and harms of the project activity. They explained that there is no complain or negative feedback about the project activity.

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	
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	1		
Compliance with the calibration frequency requirements for measuring instruments	1		
Assessment of data and calculation of emission reductions or net removals	2	2	
Others (please specify)			
Total	4	3	

SECTION E. Verification findings

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

Means of verification	The monitoring report version 05 /3/ 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 /10/.
Findings	**NA**
Conclusion	RINA verified that the monitoring report was completed in accordance with the CDM-MR-FORM - Monitoring report form, including its Attachment: Instructions for filling out the monitoring report form, version 5.1 /10/.

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

Based on the review of the Gold Standard Foundation /21/ and validation report /8/, 6 FARs were raised during the validation period.

FAR#1: It is stated in validation site visit that permission from Ministry of Forestry is not yet obtained. DOE will raise a FAR for the inspection of the permit by verification DOE in first verification.

The permission from Ministry of Forestry dated on 24/10/2013 is now provided to DOE. The necessary information is now added to the monitoring report.

Hence, FAR 1 is closed.

FAR#2: Emergency action plan is provided in PIF pg 47. In this section, 4 types of trainings are foreseen for employees. This FAR is raised so that the realization of these trainings is checked during first verification and refresher trainings are stated in the training plan for future years.
It is now confirmed that all the trainings are now given to the employees. The fire trainings are given under the Health and Safety Trainings.

Hence, FAR 2 is closed.

FAR#3: Please provide “contract with licensed waste oil collector” to verification DOE as a proof of “waste oil being disposed in line with regulations. Also, verification DOE should check if municipal solid waste is disposed adequately.

The waste disposal records for the years of 2014, 2015 and 2016 are provided to the verification team.

Hence, FAR 3 is closed.

FAR#4: The verification DOE shall please check information electricity meters, if they are in line with the regulations by means of model, accuracy and calibration essentials.
The electricity meters' information given in the monitoring report is confirmed through the calibration reports.

<u>Hence, FAR 4 is closed.</u>

FAR#5: Please provide "Firefighter report" as stated in the PIF.
The firefighter report dated 22/05/2014 is provided to verification team.

<u>Hence, FAR 5 is closed.</u>

FAR#6: A FAR is raised so that during first verification DOE makes sure the logbooks are collected back at end of SFR and PP acted appropriately to answer any comments raised by stakeholders via logbooks or other means.
During on site-visit, 2 mukhtars were interviewed. Hasan Usulu (Canta Balaban village) and Omer Ercan (Canta Sancaktepe Village) said that logbooks had been laid. We asked them if there was any comment, considering that all the information about the stakeholders was collected by the mukhtar. They confirmed that the process is still ongoing. This FAR will be monitored during the second verification.

<u>Hence, FAR 6 is closed and a new FAR is raised.</u>

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

Means of verification	The Monitoring Report for the project activity "Canta WPP", in "Turkey", version 05 of 01/06/2018 submitted by the Boydak Enerji Uretim ve Ticaret Anonim Sirketi has been the basis for the verification process. It was verified during the site visit that the proposed project activity has been implemented and it is in operation in accordance with the project activity described in the registered PDD /1/. The starting date of operation and the crediting period is presented as 02/02/2015. The project activity consists of 19 model of Nordex N100/2500kW wind turbines making the total installed capacity of 47.5 MWm/45 MWe as confirmed through the registered PDD. The technical details of the wind turbines given as a figure in the monitoring report is comply with the registered PDD /1/. It is confirmed during the site visit that all installed turbines are Nordex N100 turbines. The project boundary in the registered PDD /1/ is in line with the actual project boundary. The generated electricity is supplied to the National Electricity Transmission Grid of Turkey.
Findings	**CAR 1:** Please clarify the listed issues. - The starting date of operation and the crediting period is presented as 01/10/2014. However, this date is not in line with the provided Temporary Acceptance Protocol. - The estimated emission reduction given in the first page and Section E.5 of the MR should be revised as per the new start date. - In the milestone, no expected date should be given. All the commissioning dates should be presented and also supporting documents should be provided to verification team. In addition, please revise the monitoring period dates. - In Section A.5 of the MR, it is defined that "length of the crediting period", however, the given dates are related with the monitoring period. Please clarify. - The organization chart given in Figure 3 is not in line with the PP's explanation defined during on site visit. - In Appendix 1 of the MR, the "Organization Name" and "Contact Person" are not given correctly. - The FARs are not discussed in the monitoring report. - In the milestone, now no expected date is given. - In Section A.5 of the MR, the given dates are corrected. - The organization chart given in Figure 3 is now in line with the PP's explanation defined during on site visit. - In Appendix 1 of the MR, the "Organization Name" and "Contact Person" are now given correctly. - The FARs are now discussed in the monitoring report. **<u>Hence, CAR 1 is not closed.</u>**
Conclusion	The project is fully implemented according to the description presented in the PDD, which is discussed above. The verifier confirms, through physical inspection at site

	that all features of the CDM project activity including the equipment's, data collecting systems and storage have been implemented in accordance with the registered PDD. The project activity is completely operational and the same has been confirmed on-site.

E.4. Post-registration changes

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

Not applicable

E.4.2. Corrections

PMUM records are used as a base source of data for electricity generation instead of monthly meter readings.

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

Not applicable

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

Not applicable

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

Not applicable

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

Not applicable

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

Not applicable

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 "Grid-connected electricity generation from renewable sources" version 13.0 of 11/05/2013 /7/. The following tools are also applicable to the project activity: Tool to calculate the emission factor for an electricity system, version 03.0.0 of 23/11/2012 /11/; "Tool for the demonstration and assessment of additionality", version 07.0.0 of 23/11/2012 /12/.
Findings	N/A
Conclusion	The monitoring plan in the revised registered PDD /1/ is in accordance with the monitoring methodology ACM0002 "Grid-connected electricity generation from renewable sources" version 13.0 of 11/05/2013 /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:

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/ Observation
Combined Margin Emission Factor	TEIAS statistics	0.589 tCO_2/MWh	As per the approved methodology ACM0002 version 13.0, 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 0.589 tCO_2/MWh in the registered PDD /1/ and validation report /8/.

Findings	N/A
Conclusion	Data and parameters fixed ex-ante are in accordance with the registered revised PDD /1/

E.6.2. Data and parameters monitored

Means of verification	The following parameters are monitored in accordance with the revised registered PDD /1/. The only monitoring parameter is “Quantity of net electricity generation supplied by the project plant to the grid in year y ($EG_{facility,y}$)” as per the registered monitoring plan presented in the registered PDD /1/. The parameter is monitored continuously as “GWh” by two electricity meters that are located at project area. The main meter is Elster A 1500 with serial number 471064 and the backup meter is Elster A 1500 with serial number 471066. The accuracy of the meters is 0.5s as confirmed during on site visit. The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” /16/. The electricity meters are sealed by TEIAS as confirmed during the site visit. At the last day of each month, the electricity generation supplied to the grid and electricity consumption from the grid is read remotely from the electricity meters through Automatic Meter Reading System by the EPIAS personnel. Also the EPIAS records are available for the project participant. All protocols /15/ /22/ within this monitoring period was checked during the site visit. The EPIAS records /15/ are crosschecked with the monthly official electricity metering records /22/ during this monitoring period.
Findings	**CR 1:** The “measured/calculated/default” column for the parameter of “$EG_{facility,y}$” is not in line with the current situation. The “measured/calculated/default” column for the parameter of “$EG_{facility,y}$” is now in line with the current situation. **Hence, CR 1 is closed.**
Conclusion	The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD. All the parameters were monitored and determined as per the registered monitoring plan. Referring to clause 389-391 of the VVS version 09.0, DOE confirms through site visit verification, from the document review, the actual monitoring system complies with the registered monitoring plan. During the verification, all the relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method; the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. It is confirmed that all the monitoring parameters have been measured/determined without material misstatements and are in line with all applicable standards and relevant requirements. RINA confirms: - That all the parameters stated in the registered PDD have been monitored; - The responsibilities and authorities for monitoring and reporting are in accordance with those stated in the registered PDD; - The monitoring results are consistently recorded as per the approved frequency; - Quality assurance and quality control procedure have been applied in accordance with the registered PDD.

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	TEAIS 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 electricity meters were calibrated on 26/03/2014 as confirmed through the calibration report /35/ and no need to re-calibrate during this monitoring period. 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 /17/. 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 calibration date of the electricity meters given in the specification table is not in line with the date given in para under the table. Please check. The calibration date of the electricity meters given in the specification table is now in line with the date given in para under the table. **Hence, CR 2 is closed.**
Conclusion	The verifier confirms that the calibration confirms the proper functioning of the monitoring equipment and is valid for the whole verification monitoring period. According to clause 373 (b), and 402 of VVS version 09.0, verification team has checked calibration records to confirm that the frequency of calibration is carried out as specified in the registered monitoring plan (clause 387, 390, and 394of VVS, version 09.0).

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 CO_2 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 CO_2 emission factor for grid connected power generation in year. $BEy = EG_{facility,y} \times EF_{grid,CM,y}$ Where: $EG_{facility,y}$ = Net electricity supplied to the grid (MWh) $EF_{grid,CM,y}$ = Combined margin grid emission factor (tCO_2/MWh)
Findings	N/A
Conclusion	RINA verified that the baseline emissions were calculated in accordance with the registered PDD and methodology ACM0002 “Grid-connected electricity generation from renewable sources” version 13.0 of 11/05/2013 /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 calculated in accordance with the registered PDD 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: ERy = BEy – PEy – Ly Where: BEy = Baseline emissions in year y (tCO_2e/yr) PEy = Project emissions in year y (tCO_2e/yr) Ly = Leakage emissions in year y (tCO_2e/yr)
Findings	**CR 3:** Section E.1 of the MR is not given in line with the registered PDD. Please check. Section E.1 of the MR is now given in line with the registered PDD. **Hence, CR 3 is closed.** **CAR 2:** The calculations should be revised since the crediting and monitoring period start date is changed as 24/07/2014. Please also revise all the necessary sections in the MR. Within the first year of emission reduction start date, any start date can be preferred. These findings were included only because the dates agreed upon during the field visit differed and a revision of the monitoring report was requested. It is also suitable for us if the PP confirms in this way. **Hence, CAR 2 is closed.**
Conclusion	RINA confirms: - All the data and parameters were monitored in accordance with the registered PDD; - The data presented in the monitoring report /03/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. - The calculation of emission reductions have been carried out in accordance with the formulae and methods described in the registered PDD, the applied methodology and methodological tools; Emission factor and default values have been applied in the calculation in accordance to the registered PDD.

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 05 of 01/06/2018 /3/ is equivalent to 162,305 tCO2e. The reported emission reductions are 3.3% lower than the estimated emission reduction of 167,840 tCO2e for the period as per the registered PDD /1/.
Findings	**CR 4:** After the estimated and the actual value are revised, the difference between them should also be re-calculated. The correct explanation about the difference between estimated and actual emissions is now given in the report. **Hence, CR 4 is closed.**
Conclusion	Verified during the onsite visit the reported emission reductions are lower than the estimated emission reduction in the registered PDD.

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

Means of verification	For wind power projects the reason for this increase in emission reductions is the weather conditions. %3.3 deviation is acceptable.
Findings	**CR 4:** After the estimated and the actual value are revised, the difference between them should also be re-calculated. The correct explanation about the difference between estimated and actual emissions is now given in the report. **Hence, CR 4 is closed.**
Conclusion	The actual emission reduction is quite the same with the estimated emission reduction given in the registered PDD.

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	The emission reductions from the project for the monitoring period as reported in the monitoring report version 05 /3/ is equivalent to 162,305.
Findings	**CAR 2:** The calculations should be revised since the crediting and monitoring period start date is changed as 24/07/2014. Please also revise all the necessary sections in the MR. Within the first year of emission reduction start date, any start date can be preferred. These findings were included only because the dates agreed upon during the field visit differed and a revision of the monitoring report was requested. It is also suitable for us if the PP confirms in this way. **Hence, CAR 2 is closed.**
Conclusion	The emission reductions calculation provided in the spreadsheet will have been verified to be correct and in line with the registered PDD.

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 SO2 and NOx emissions from grid connected plants	Electricity Generation and Calculation	- 539 tons SO_2 - 414 tons NO_x
Assessment		
SO$_2$ and NO$_x$ emissions from grid connected plants: The parameter is monitored yearly by calculation with the Turkey's GHG Inventory and TEIAS Statistics. For this monitoring period SO_2 is calculated as 539 tons and NO_x is calculated as 414 tons.		

Data variable	**Source of Data**	**Reported value for the project period**
Water Quality and Quantity Disposal of the waste water	Waste Disposal Records	The wastewater is transported by sewage trucks
Assessment		
Disposal of the waste water: The parameter is monitored annually by assessing disposal methods during site visits and checking waste disposal records /18/ /19/. It is confirmed that the waste water is stored in a septic tank on site and disposed of periodically with vacuum.		

Data variable	**Source of Data**	**Reported value for the project period**

Other Pollutants Noise, Waste oil, Top Soil and Aggregates	- Waste oil delivery protocols - Interview with locals and GS Grievance notebook - Photos	- Waste oil is disposed by licensed companies - No noise emission - Top soil is used for rehabilitation.
Assessment		
Noise: According to the interview with the Mukhtars of the Balaban and Sancaktepe villages, there are no noise complaints from the stakeholders. *Waste oil:* The waste oil is disposed by licensed companies. Waste Declaration forms /23/ /24/ and UATF forms /25/ are provided to confirm waste oil disposal. *Top Soil and Aggregates:* The excavation is used for filling the roads and the top soil is used for rehabilitation as confirmed through the photos /30/.		

Data variable	**Source of Data**	**Reported value for the project period**
Soil Condition Amount of non-hazardous solid wastes	Correspondence with Silivri Municipality	Wastes are disposed by Silivri Municipality
Assessment		
Amount of non-hazardous solid wastes during construction and operational phases. Appropriate management of all waste in line with regulations: The parameter is monitored annually Site visit and checking waste disposal records. During on site visit it is confirmed that wastes are disposed by Silivri Municipality /27/.		

Data variable	**Source of Data**	**Reported value for the project period**
Access to affordable and clean energy services Fossil fuel replaced	Electricity Generation and Calculation	14,744,750 €.
Assessment		
Fossil fuel replaced: The parameter is monitored yearly through comparing electricity generated by proposed project and natural gas that would be used to produce the same amount of electricity by a thermal power plant. The calculation is clearly presented in the excel sheet /9/.		

Data variable	**Source of Data**	**Reported value for the project period**
Quality of Employment Number of personnel certified/trained during operation phase	Certificates and attendance lists of the trainings	Employees participated to the trainings.
Assessment		
Number of personnel certified/trained during operation phase: The parameter is monitored yearly by review employment records and training documents/certificates. All the trainings /32-34/ during this monitoring period was provided to the verification team.		

Data variable	**Source of Data**	**Reported value for the project period**
Quantitative Employment and	Social Security Documents	8 employees are hired

Income Generation		

Assessment

Payments made to staff: This parameter is monitored yearly by the evaluation documents for wages paid and social security documents. It was confirmed that 8 employees are hired by the project activity and their wage was credited by Boydak Enerji Uretim ve Ticaret Anonim Sirketi as confirmed through the Social Insurance Institution /14/.

Data variable	Source of Data	Reported value for the project period
Balance of Payments and Investment	Electricity Generation and Calculation	61.209 million m^3 Natural gas

Assessment

Currency saving due to avoided fuel import: This parameter is monitored yearly by through comparing electricity generated by Canta WPP and natural gas that would be used to produce the same amount of electricity according to baseline scenario.

Data variable	Source of Data	Reported value for the project period
Conservation of Tumulus	Interview with Locals	Tumulus's are not impacted to the project area.

Assessment

This parameter is monitored once for each verification by talking to the locals. During on site visit, Balabanli and Sancaktepe villages' mukhtars are interviewed about the Tumulus and they confirmed that tumulus are not impact to the project area.

Data variable	Source of Data	Reported value for the project period
Traffic Management	Interview with Locals Photos	Traffic warning signs are placed in the project area.

Assessment

This parameter is monitored once for each verification by talking to the locals an photos. Photos of the signs /29/ are provided to the verification team. The speed limit signs are also seen during on site visit.

Data variable	Source of Data	Reported value for the project period
Calibration of Meters	Calibration records	The electricity meters are calibrated before operation.

Assessment

This parameter is monitored once for each verification by calibration reports. During this monitoring period, it is confirmed that the electricity meters were calibrated on 26/03/2014 by ABB /35/. The meters' test reports /36/ are also provided to the verification team.

Data variable	Source of Data	Reported value for the project period
Livelihood of the poor	Interview with land owner	Process is still ongoing and monitored in the next verification.

	Assessment *Compensation of Expropriation:* This parameter is monitored once after construction by interviewing with land owners. During on site visit, it was confirmed through the interview with PP and Mukhtars that the process is still ongoing.

Data variable	Source of Data	Reported value for the project period
Biodiversity	Ornithology Reports	3 bird strikes
Assessment		
Number of bird species and affected species: This parameter is monitored once by ornithology reports /26/. According to the reports and interview with the biologist, it was confirmed that 3 bird strikes were seen in the project area.		

Findings	**CAR 3:** **Air Quality:** *SO_2 and NO_x emissions from grid connected plants:* The parameter is monitored yearly by calculation with the Turkey's GHG Inventory and TEIAS Statistics. However, "Mitigation Measure" of the parameter is not in line with the registered PDD. In addition, please revise the calculation as per the new starting date of the crediting period. **Water Quality and Quantity:** *Disposal of the waste water:* The parameter is monitored annually by assessing disposal methods during site visits and checking waste disposal records /18/ /19/. It is confirmed that the waste water is stored in a septic tank on site and disposed of periodically with vacuum. However, the invoices related with the year 2014 should be added to the MR since the monitoring period start date is changed. **Access to affordable and clean energy services:** *Fossil fuel replaced:* The parameter is monitored yearly through comparing electricity generated by proposed project and natural gas that would be used to produce the same amount of electricity by a thermal power plant. The calculation is clearly presented in the excel sheet /9/. However, please re-calculate the value after the net electricity generation is revised. **Quality of Employment:** *Number of personnel certified/trained during operation phase:* The parameter is monitored yearly by review employment records and training documents/certificates. All the trainings /32-34/ during this monitoring period was provided to the verification team. However, Vocational training and Health and safety trainings are not listed in the training table. Please clarify. **Balance of Payments and Investment:** *Currency saving due to avoided fuel import:* This parameter is monitored yearly by through comparing electricity generated by Canta WPP and natural gas that would be used to produce the same amount of electricity according to baseline scenario. However, please re-calculate the value after the net electricity generation is revised. **Livelihood of the poor:** *Compensation of Expropriation:* This parameter is monitored once after construction by interviewing with land owners. During on site visit, it was confirmed through the interview with PP and Mukhtars that the process is still ongoing. However, no explanation is given in the MR. Please clarify. **Biodiversity:** *Number of bird species and affected species:* This parameter is monitored once by ornithology reports /26/. According to the reports and interview with the biologist, it was confirmed that 3 bird strikes were seen in the project area. However, this issue is not discussed in the MR.

	Air Quality: *SO2 and NOx emissions from grid connected plants:* The “Mitigation Measure” of the parameter is now in line with the registered PDD. If the PP chooses 01/10/2014, there is no need to re-calculate the air quality. **Water Quality and Quantity:** *Disposal of the waste water:* If the PP chooses 01/10/2014, there is no need to add wastewater records before this date. **Access to affordable and clean energy services:** *Fossil fuel replaced:* Since there is no change with the crediting and monitoring start date, no revision is required. **Quality of Employment:** *Number of personnel certified/trained during operation phase:* Vocational training and Health and safety trainings are now listed in the training table. **Balance of Payments and Investment:** *Currency saving due to avoided fuel import:* Since there is no change with the crediting and monitoring start date, no revision is required. **Livelihood of the poor:** *Compensation of Expropriation:* This parameter is revised in the MR. **Biodiversity:** *Number of bird species and affected species:* This parameter is monitored once by ornithology reports /26/. According to the reports and interview with the biologist, it was confirmed that 3 bird strikes were seen in the project area. **Hence, CAR 3 is closed.**
Conclusion	RINA verified that the GS indicators described in the monitoring report 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 Canta WPP, GS Registration Reference No. 1235 for the period 02/02/2015 - 31/10/2016, 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 monitoring report version 05 of 01/06/2018 for the project activity “Canta WPP” in Turkey, for the period 02/02/2015 - 31/10/2016 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 13.0.0. Hence RINA is able to certify that the emission reductions from the project during the monitoring period 02/02/2015 - 31/10/2016 amount to 162,305 tCO_2e.

Year 2015 02/02/2015 to 31/12/2015 83,663 tCO_2e
Year 2016 01/01/2016 to 31/10/2016 78,643 tCO_2e

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_2e	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
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)
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

RINA SERVICES
classification, certification, inspection & testing

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:
Tugce Kiratli

è qualificato come:
is qualified as:
TEC, VAL, VER, TL, ITRP
LOCAL EXPERT

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*
1.2	Renewables	1
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
1	09/06/2017	Added qualification as ITRP and Local Expert

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

GHG_QUAL_CERT_EN_07_16 Voluntary(Certificate) Page 1 of 1

RINA SERVICES

classification, certification, inspection & testing

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

Valoroso Rita

*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: Indipendent technical reviewer

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

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

GHG_QUAL_CERT_EN_07_16 Voluntary(Certificate) Page 1 of 1

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	Global Tan Energy Ltd.	GS-PDD for “Canta WPP” in Turkey	version 07 of 09/06/2014	Project participant
2	Global Tan Energy Ltd.	Gold Standard Passport for Project Activity “Canta WPP” in Turkey	version 04 of 12/2/2013	Project participant
3	Global Tan Energy Ltd.	Monitoring Report for “Canta WPP” in Turkey Monitoring Report for “Canta WPP” in Turkey Monitoring Report for “Canta WPP” in Turkey Monitoring Report for “Canta WPP” in Turkey Monitoring Report for “Canta WPP” in Turkey	version 01 of 29/12/2016 version 02 of 29/09/2017 version 03 of 09/11/2017 version 04 of 10/05/2018 version 05 of 01/06/2018	Project participant
4	Gold Standard Foundation	Gold Standard Requirements	version 2.1 of 01/07/2009	Publicly available
5	Gold Standard Foundation	Gold Standard Toolkit	version 2.1 of 01/07/2009	Publicly available
6	CDM Executive Board	Clean Development Mechanism Validation and Verification Standard	version 09.0 of 20/02/2015	Publicly available
7	CDM Executive Board	Baseline and monitoring methodology “ACM0002”, “Grid-connected electricity generation from renewable sources”	version 13.0 of 11/05/2013	Publicly available
8	Re-consult	Validation Report for “Canta WPP” No. 145	version 06 of 20/11/2015	Others
9	Global Tan Energy Ltd.	Emission Reduction Calculation Spreadsheet “Conf_CantaWPP_VER_Calcs_Monitoring_Report_I_29.12.2016.xlsx” Emission Reduction Calculation Spreadsheet “Conf_CantaWPP_VER_Calcs_Monitoring_Report_I_08.09.2017.xlsx” Emission Reduction Calculation Spreadsheet “Conf_CantaWPP_VER_Calcs_Monitoring_Report_I_01.06.2018.xlsx”	version 01 submitted on 29/12/2016 version 02 submitted on 08/09/2017 version 03 submitted on 08/06/2018	Project participant
10	CDM Executive Board	Guideline for Completing the Monitoring Report Form	version 05.1 of 04/05/2015	Publicly available
11	CDM Executive Board	Methodological Tool “Tool to calculate the emission factor for an electricity system”	version 03.0.0 of 23/11/2012	Publicly available
12	CDM Executive Board	Methodological Tool “ Tool for the demonstration and assessment of additionality”	version 07.0.0 of 23/11/2012	Publicly available
13	Ministry of Energy and Natural Resources	Temporary Acceptance Protocol	Date of 24/07/2014	Project participant
14	Social Insurance Institution	SGK Records for 8 Employees	date of 10/2016	Project participant
15	Market Financial Settlement Center (EPIAS)	Monthly Electricity Records within the Monitoring Period	from 07/2014 – 10/2016	Project participant

16	Energy Market Regulatory Authority	Communiqué for Measurement Devices used in the Electricity Market	date of 22/03/2003	Publicly available
17	The Ministry of Trade and Industry	Regulation of Metering and Testing of Metering Systems	date of 24/07/1994	Publicly available
18	Bircanlar Nakliyat	Invoices of Sewage Truck Invoices of Sewage Truck, No. 014450	date of 13/08/2014 date of 07/06/2016	Project participant
19	Arslan Nakliye	Invoices of Sewage Truck, No. 15 Invoices of Sewage Truck, No. 31 Invoices of Sewage Truck, No. 45	date of 23/07/2014 date of 04/03/2015 date of 26/08/2015	Project participant
20	TEIAS	Electricity Meter Inspection Control Sheet Electricity Meter Inspection Control Sheet	date of 19/06/2015 date of 14/06/2016	Project participant
21	The Gold Standard Foundation	6-week issuance review period under GS Version 2.1	date of 15/12/2015	Others
22	Boydak Enerji Uretim ve Ticaret Anonim Sirketi	Monthly Meter Readings	from 07/2014 – 10/2016	Project participant
23	Boydak Enerji Uretim ve Ticaret Anonim Sirketi	Waste Declaration Form Waste Declaration Form	of 2014 of 2015	Project participant
24	Nordex Enerji A.S.	Waste Declaration Form Waste Declaration Form	of 2014 of 2015	Project participant
25	Cevre Denizcilik	National Waste Transportation Form No. 3410383627 National Waste Transportation Form No. 3410383641	date of 13/11/2014 date of 26/06/2015	Project participant
26	Boydak Enerji Uretim ve Ticaret Anonim Sirketi	Ornithology Report for Winter Spring Ornithology Report for Autumn	of 07/2016 of 12/2015	Project participant
27	Silivri Municipality	Waste Collection Receipt, No. 476917 Waste Collection Receipt, No. 528710	of 13/05/2015 of 06/11/2015	Project participant
28	Ministry of Culture and Tourism	Acknowledgment about Tumulis	of 28/12/2012	Project participant
29	Boydak Enerji Uretim ve Ticaret Anonim Sirketi	Photos for the Traffic Mangement	submitted on 19/06/2015	Project participant
30	Boydak Enerji Uretim ve Ticaret Anonim Sirketi	Photos for the Top Soil	submitted on 19/06/2015	Project participant
31	Boydak Enerji Uretim ve Ticaret Anonim Sirketi	Excel Sheet for Final Status of Expropriation	submitted on 19/06/2015	Project participant
32	Basaran Is Sagligi ve Guvenligi	Health and Safety Training Certificate for 8 Employees	date of 15/10/2016	Project participant

33	TurkishRedCrescent	First Aid Certificate for 2 Employees First Aid Certificate for 1 Employee First Aid Certificate for 2 Employees First Aid Certificate for 1 Employee	date of 22-23/07/2015 date of 06-07/06/2016 date of 12-13/03/2016 date of 09-10/08/2016	Project participant
34	Afet Faaliyetleri	First Aid Certificate for 1 Employee	date of 31/05-01/06/2014	Project participant
35	ABB	Calibration Report of the Electricity Meters	of 26/03/2014	Project participant
36	TEIAS	Test Report of the Electricity Meters	of 14/06/2016 of 19/06/2015	Project participant
37	Boydak Enerji	Payment Slip and Receipts for Forest Land	of 21/11/2016	Project participant
38	Hakser Madencilik	Project Introduction File	of 01/2009	Project participant
39	Ministry of Education	General Directorate of Lifelong Learning – Hygiene Training	of 25/02/2016	Project participant

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

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

<table>
<tr><td>FAR ID</td><td>1</td><td>Section no.</td><td>E.2</td><td>Date: 12/03/2017</td></tr>
<tr><td colspan="5">Description of FAR</td></tr>
<tr><td colspan="5">It is stated in validation site visit that permission from Ministry of Forestry is not yet obtained. DOE will raise a FAR for the inspection of the permit by verification DOE in first verification.</td></tr>
<tr><td colspan="4">Project participant response</td><td>Date: 29/09/2017</td></tr>
<tr><td colspan="5">Permission from Ministry of Forestry has been obtained, which is valid for from 24.10.2013 to 18.08.2060 (Please see the files in JPG format.) Documentation regarding permission letter and land permit payments is sent to DOE. Date of the Forest Permission has been changed accordingly in the MR within Table-1: Project Milestones.</td></tr>
<tr><td colspan="5">Documentation provided by project participant</td></tr>
<tr><td colspan="5">Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx
22.09.2017 Orman Belgeleri.zip</td></tr>
<tr><td colspan="4">DOE assessment</td><td>Date: 02/10/2017</td></tr>
<tr><td colspan="5">The permission from Ministry of Forestry dated on 24/10/2013 is now provided to DOE. The necessary information is now added to the monitoring report.
However, none of the FARs have been discussed in the monitoring report.
<u>Hence, FAR 1 is not closed.</u></td></tr>
<tr><td colspan="4">Project participant response</td><td>Date: 09/11/2017</td></tr>
<tr><td colspan="5">FARs discussed in monitoring report under Section E.7. (Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx)</td></tr>
<tr><td colspan="4">DOE assessment</td><td>Date: 30/11/2017</td></tr>
<tr><td colspan="5">All the FARs are now discussed in the monitoring report.
<u>Hence, FAR 1 is closed.</u></td></tr>
</table>

<table>
<tr><td>FAR ID</td><td>2</td><td>Section no.</td><td>E.2</td><td>Date: 12/03/2017</td></tr>
<tr><td colspan="5">Description of FAR</td></tr>
<tr><td colspan="5">Emergency action plan is provided in PIF pg 47. In this section, 4 types of trainings are foreseen for employees. This FAR is raised so that the realization of these trainings is checked during first verification and refresher trainings are stated in the training plan for future years.</td></tr>
<tr><td colspan="4">Project participant response</td><td>Date: 29/09/2017</td></tr>
<tr><td colspan="5">Realization of 4 types of trainings is checked during first verification and mentioned in the MR. Future targets for the parameter are stated. The most recent training certificates sent by the company is shared with DOE.</td></tr>
<tr><td colspan="5">Documentation provided by project participant</td></tr>
<tr><td colspan="5">Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx
Eğitimler_22.09.2017.zip</td></tr>
<tr><td colspan="4">DOE assessment</td><td>Date: 02/10/2017</td></tr>
<tr><td colspan="5">4 types of trainings are defined as “protection”, “rescue”, “first aid” and “fire”. All the given trainings are provided to the verification team. However, fire trainings are not provided. Please send.
<u>Hence, FAR 2 is not closed.</u></td></tr>
<tr><td colspan="4">Project participant response</td><td>Date: 09/11/2017</td></tr>
<tr><td colspan="5">Fire training is included in Health and Safety trainings (see Eğitimler_22.09.2017.zip)</td></tr>
<tr><td colspan="4">DOE assessment</td><td>Date: 30/11/2017</td></tr>
<tr><td colspan="5">The fire trainings are given under the Health and Safety Trainings.
<u>Hence, FAR 2 is closed.</u></td></tr>
<tr><td>FAR ID</td><td>3</td><td>Section no.</td><td>E.2</td><td>Date: 12/03/2017</td></tr>
<tr><td colspan="5">Description of FAR</td></tr>
</table>

Please provide “contract with licensed waste oil collector” to verification DOE as a proof of “waste oil being disposed in line with regulations. Also, verification DOE should check if municipal solid waste is disposed adequately.	
Project participant response	**Date:** 12/09/2017
Waste oil delivery to the licenced company are mentioned with their dates in the MR. The documentation regarding the disposal of waste oil has previously been shared with DOE in a zipped format.	
Documentation provided by project participant	
Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx *6-Atık Yağların Bertarafı ile İlgili Belgeler.zip* *11.10.17 Atık Beyanları.zip*	
DOE assessment	**Date:** 02/10/2017
The waste disposal records for the years of 2014 and 2015 are provided to the verification team. However, no records are given for 2016 (till October 2016). **Hence, FAR 3 is not closed.**	
Project participant response	**Date:** 09/11/2017
The waste records for 2016 were also received from the firm and now shared with DOE in a zipped format *(11.10.17 Atık Beyanları.zip)*	
DOE assessment	**Date:** 30/11/2017
The waste disposal records for the year of 2016 is now provided to the verification team. **Hence, FAR 3 is closed.**	

FAR ID	4	**Section no.**	E.2	**Date:** 12/03/2017
Description of FAR				
The verification DOE shall please check information electricity meters, if they are in line with the regulations by means of model, accuracy and calibration essentials.				
Project participant response				**Date:** 12/09/2017
The documentation regarding the electricity meters have previously been shared with DOE. Information on electricity meters are mentioned in the MR.				
Documentation provided by project participant				
14-Sayaçların Kalibrasyon Belgeleri.zip *Çanta WPP_I. Monitoring_Report_29092017_v.02_clean.docx*				
DOE assessment				**Date:** 02/10/2017
The electricity meters’ information given in the monitoring report is confirmed through the calibration reports. **Hence, FAR 4 is closed.**				

FAR ID	5	**Section no.**	E.2	**Date:** 12/03/2017
Description of FAR				
Please provide “Firefighter report” as stated in the PIF.				
Project participant response				**Date:** 29/09/2017
Firefighter Report is sent to DOE.				
Documentation provided by project participant				
İtfaiye Raporu.pdf				
DOE assessment				**Date:** 02/10/2017
The firefighter report dated 22/05/2014 is provided to verification team. **Hence, FAR 5 is closed.**				

FAR ID	6	**Section no.**	E.2	**Date:** 12/03/2017
Description of FAR				
A FAR is raised so that during first verification DOE makes sure the logbooks are collected back at end of SFR and PP acted appropriately to answer any comments raised by stakeholders via logbooks or other means.				
Project participant response				**Date:** 12/09/2017
During first verification, PP acted appropriately to answer any comments raised by stakeholders via logbooks or other means. Also, the situation regarding expropriation is mentioned in the MR.				
Documentation provided by project participant				
Çanta WPP_I. Monitoring_Report_29092017_v.02_clean.docx				
DOE assessment				**Date:** 02/10/2017

During on site-visit, 2 mukhtars were interviewed. Hasan Usulu (Canta Balaban village) and Omer Ercan (Canta Sancaktepe Village) said that logbooks had been laid. We asked them if there was any comment, considering that all the information about the stakeholders was collected by the mukhtar. They confirmed that the process is still ongoing. This FAR will be monitored during the second verification. **Hence, FAR 6 is closed and a new FAR is raised.**

Table 2. CR from this verification

CR ID	1	**Section no.**	E.5	**Date:** 12/03/2017
Description of CR				
The “measured/calculated/default” column for the parameter of “EGfacility,y” is not in line with the current situation.				
Project participant response				**Date:** 12/09/2017
The net electricity generation value for the year 2014 has been corrected as “3 months” from “7 months” in the Excel calculation document and also in the MR.				
Documentation provided by project participant				
Conf _Canta WPP_VER_Calcs_Monitoring_Report_I_08.09.2017.xlsx *Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx* *Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx*				
DOE assessment				**Date:** 02/10/2017
The “measured/calculated/default” column for the parameter of “$EG_{facility,y}$” is not in line with the current situation. In addition, the provided revised report must be in track change mode. For example, revised explanation “3 months” is not given in this mode. The changes could not be monitored clearly. **Hence, CR 1 is not closed.**				
Project participant response				**Date:** 09/11/2017
The expression is changed as “measured” and the descriptions were revised accordingly. The revised MR document (*Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx)* is sent to DOE in both revised and clean forms.				
DOE assessment				**Date:** 30/11/2017
The “measured/calculated/default” column for the parameter of “$EG_{facility,y}$” is now in line with the current situation. In addition, the provided revised report is now in track change mode. **Hence, CR 1 is closed.**				

CR ID	2	**Section no.**	E.7	**Date:** 12/03/2017
Description of CR				
The calibration date of the electricity meters given in the specification table is not in line with the date given in para under the table. Please check.				
Project participant response				**Date:** 14/04/2017
The statement in the paragraph has been corrected as “26.03.2014”, in line with the date given in the specification table and the PDD.				
Documentation provided by project participant				
Çanta WPP_I. Monitoring_Report_29092017_v.02_clean.docx				
DOE assessment				**Date:** 02/10/2017
The calibration date of the electricity meters given in the specification table is now in line with the date given in para under the table. **Hence, CR 2 is closed.**				

CR ID	3	**Section no.**	E.8.4	**Date:** 12/03/2017
Description of CR				
Section E.1 of the MR is not given in line with the registered PDD. Please check.				
Project participant response				**Date:** 08/09/2017
Section E.1 is updated in line with the registered PDD.				
Documentation provided by project participant				
Çanta WPP_I. Monitoring_Report_29092017_v.02_clean.docx				
DOE assessment				**Date:** 02/10/2017
Section E.1 of the MR is now given in line with the registered PDD. **Hence, CR 3 is closed.**				

CR ID	4	Section no.	E.8.5 – E.8.6	Date: 12/03/2017
Description of CR				
After the estimated and the actual value are revised, the difference between them should also be re-calculated.				
Project participant response				**Date:** 07/09/2017
Since the dates are taken from the PDD, which has already been approved, the estimated and actual values are valid and do not need to be revised. The difference is calculated and indicated at the end of Section E.5.				
Documentation provided by project participant				
Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx *Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx*				
DOE assessment				**Date:** 02/10/2017
The correct explanation about the difference between estimated and actual emissions is now given in E.5 instead of E.6. Please check. There were two values (%2.7 and %3) in the para. **Hence, CR 4 is not closed.**				
Project participant response				**Date:** 09/11/2017
The necessary explanation about the difference between estimated and actual emissions is moved under Section E.6.				
DOE assessment				**Date:** 30/11/2017
The correct explanation about the difference between estimated and actual emissions is now given in the report. **Hence, CR 4 is closed.**				

Table 3. CAR from this verification

CAR ID	1	Section no.	E.3	Date: 12/03/2017
Description of CAR				
Please clarify the listed issues. - The starting date of operation and the crediting period is presented as 01/10/2014. However, this date is not in line with the provided Temporary Acceptance Protocol. - The estimated emission reduction given in the first page and Section E.5 of the MR should be revised as per the new start date. - In the milestone, no expected date should be given. All the commissioning dates should be presented and also supporting documents should be provided to verification team. In addition, please revise the monitoring period dates. - In Section A.5 of the MR, it is defined that “length of the crediting period”, however, the given dates are related with the monitoring period. Please clarify. - The organization chart given in Figure 3 is not in line with the PP’s explanation defined during on site visit. - In Appendix 1 of the MR, the “Organization Name” and “Contact Person” are not given correctly. - The FARs are not discussed in the monitoring report.				
Project participant response				**Date:** 12/09/2017
- Date of commissioning updated as per provisional acceptance record. - Crediting period start date is not changed so no change in estimated emission reduction is made. It is in line with the ex-ante estimate of emission reduction stated in PDD. The calculation of the values estimated in ex ante calculation of registered PDD, which corresponds to the monitoring period, is added to the Calculations Excel document. (Doc name: *Conf _Canta WPP_VER_Calcs_Monitoring_Report_I_08.09.2017.xlsx*) - The wording has been revised as “Commissioning Date” and the commissioning date has been revised as “24/07/2014” in Table 1. - Statement revised as “crediting period” in the MR. - The organization chart was revised in the MR (see Figure 3). - The contact person is revised as “Nejdet Tayyar Irgaç” in Section A.6 and in Appendix-1. Also, organization name is revised as “Boydak Ruzgar Elektrik Üretim Sanayi ve Ticaret A.Ş”, in line with the PDD.				
Documentation provided by project participant				
Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx; *Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx* *Conf _Canta WPP_VER_Calcs_Monitoring_Report_I_08.09.2017.xlsx*				
DOE assessment				**Date:** 02/10/2017

Please clarify the listed issues. - In the milestone, now no expected date is given. - In Section A.5 of the MR, the given dates are corrected. - The organization chart given in Figure 3 is now in line with the PP's explanation defined during on site visit. - In Appendix 1 of the MR, the "Organization Name" and "Contact Person" are now given correctly. - The FARs are not discussed in the monitoring report. **Hence, CAR 1 is not closed.**

Project participant response	**Date:** 09/11/2017
FARs discussed in monitoring report under Section E.7.	
DOE assessment	**Date:** 30/11/2017
The FARs are now discussed in the monitoring report. **Hence, CAR 1 is closed.**	

CAR ID	2	**Section no.**	E.8.4 – E.8.7	**Date:** 12/03/2017
Description of CAR				
The calculations should be revised since the crediting and monitoring period start date is changed as 24/07/2014. Please also revise all the necessary sections in the MR.				
Project participant response				**Date:** 07/09/2017
We didn't change crediting or monitoring period.				
Documentation provided by project participant				
-				
DOE assessment				**Date:** 02/10/2017
Within the first year of emission reduction start date, any start date can be preferred. These findings were included only because the dates agreed upon during the field visit differed and a revision of the monitoring report was requested. It is also suitable for us if the PP confirms in this way. **Hence, CAR 2 is closed.**				

CAR ID	3	**Section no.**	E.8.8	**Date:** 12/03/2017
Description of CAR				

Air Quality: *SO2 and NOx emissions from grid connected plants:* The parameter is monitored yearly by calculation with the Turkey's GHG Inventory and TEIAS Statistics. However, "Mitigation Measure" of the parameter is not in line with the registered PDD. In addition, please revise the calculation as per the new starting date of the crediting period. **Water Quality and Quantity:** *Disposal of the waste water:* The parameter is monitored annually by assessing disposal methods during site visits and checking waste disposal records /18/ /19/. It is confirmed that the waste water is stored in a septic tank on site and disposed of periodically with vacuum. However, the invoices related with the year 2014 should be added to the MR since the monitoring period start date is changed. **Access to affordable and clean energy services:** *Fossil fuel replaced:* The parameter is monitored yearly through comparing electricity generated by proposed project and natural gas that would be used to produce the same amount of electricity by a thermal power plant. The calculation is clearly presented in the excel sheet /9/. However, please re-calculate the value after the net electricity generation is revised. **Quality of Employment:** *Number of personnel certified/trained during operation phase:* The parameter is monitored yearly by review employment records and training documents/certificates. All the trainings /32-34/ during this monitoring period was provided to the verification team. However, Vocational training and Health and safety trainings are not listed in the training table. Please clarify. **Balance of Payments and Investment:** *Currency saving due to avoided fuel import:* This parameter is monitored yearly by through comparing electricity generated by Canta WPP and natural gas that would be used to produce the same amount of electricity according to baseline scenario. However, please re-calculate the value after the net electricity generation is revised. **Livelihood of the poor:** *Compensation of Expropriation:* This parameter is monitored once after construction by interviewing with land owners. During on site visit, it was confirmed through the interview with PP and Mukhtars that the process is still ongoing. However, no explanation is given in the MR. Please clarify. **Biodiversity:** *Number of bird species and affected species:* This parameter is monitored once by ornithology reports /26/. According to the reports and interview with the biologist, it was confirmed that 3 bird strikes were seen in the project area. However, this issue is not discussed in the MR.

Project participant response	**Date:** 12/09/2017

Air Quality:

SO2 and NOx emissions from grid connected plants: It is stated in the sustainable development matrix of the registered Passport that "No mitigation measure needed for NOx and SOx" for the air quality indicator. Therefore the mitigation measure is stated as "not required" in the MR, which is in line with the Passport.

Also, in the registered PDD, calculation does not need to be revised since the starting date of the crediting period was not changed.

Water Quality and Quantity:

Disposal of the waste water: The invoices belonging to the year 2014 do not need to be added to the MR since the monitoring period start date was not changed; and since the 2014 invoices are of July and August, which correspond prior to the monitoring period from October 2014 onward.

Access to affordable and clean energy services:

Fossil fuel replaced: Re-calculation of the value is not required since the net electricity generation was not revised.

Quality of Employment:

Number of personnel certified/trained during operation phase: Basic first aid, Hygiene Training for Workers in Food and Water Sector, Work permit in electrical heavy current installations training and Occupational health and safety trainings are stated in the training table (see Appendix 2- Indicator 2).

Balance of Payments and Investment:

Currency saving due to avoided fuel import: Re-calculation of the value is not required since the net electricity generation was not revised.

Livelihood of the poor:

Compensation of Expropriation: This section has been revised in the MR accordingly.

Biodiversity:

Number of bird species and affected species: This section has been updated and the strikes have been mentioned in the MR.

Documentation provided by project participant	
Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx; *Çanta WPP_I. Monitoring_Report_09112017_v.03_clean.docx*	
DOE assessment	**Date:** 02/10/2017

Water Quality and Quantity:

Disposal of the waste water: If the PP chooses 01/10/2014, there is no need to add wastewater records before this date.

Access to affordable and clean energy services:

Fossil fuel replaced: Since there is no change with the crediting and monitoring start date, no revision is required.

Quality of Employment:

Number of personnel certified/trained during operation phase: Vocational training and Health and safety trainings are now listed in the training table.

Balance of Payments and Investment:

Currency saving due to avoided fuel import: Since there is no change with the crediting and monitoring start date, no revision is required.

Livelihood of the poor:

Compensation of Expropriation: This parameter is revised in the MR.

Biodiversity:

Number of bird species and affected species: This parameter is monitored once by ornithology reports /26/. According to the reports and interview with the biologist, it was confirmed that 3 bird strikes were seen in the project area. However, this issue is not discussed in the MR.

Project participant response	**Date:** 09/11/2017

Biodiversity: In the MR, under the Biodiversity indicator, the strikes are mentioned as: "During the interview conducted with the Biologist of the WPP, she stated that they witnessed 3 bird strikes. Other than these strikes, natural flora & fauna of the region is not affected negatively due to project activities. Ornithology report was provided to DOE". Also, a statement made in the ornithology report is added: "It is stated in the Ornithology Report that Detection of dead birds is very difficult due to the presence of predatory mammals." (see *Çanta WPP_I. Monitoring_Report_09112017_v.03_trackchanged.docx)*

DOE assessment	**Date:** 30/11/2017
Biodiversity: *Number of bird species and affected species:* The given explanation is found acceptable. **Hence, CAR 3 is closed.**	

Table 4. FAR from this verification

FAR ID	1	**Section No.**	E.2	**Date:** 30/11/2017
Description of FAR				
During on site-visit, 2 mukhtars were interviewed. Hasan Usulu (Canta Balaban village) and Omer Ercan (Canta Sancaktepe Village) said that logbooks had been laid. We asked them if there was any comment, considering that all the information about the stakeholders was collected by the mukhtar. They confirmed that the process is still ongoing. This FAR will be monitored during the second verification. **Hence, FAR 1 is raised.**				
Project participant response				**Date:**
Documentation provided by project participant				
DOE assessment				**Date:**

Document information

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