

Monitoring report form for CDM project activity
(Version 06.0)

Complete this form in accordance with the instructions attached at the end of this form.

MONITORING REPORT

Title of the project activity	Sah Wind Power Plant	
UNFCCC reference number of the project activity	GS905	
Version number of the PDD applicable to this monitoring report	11	
Version number of this monitoring report	0.3	
Completion date of this monitoring report	27/08/2018	
Monitoring period number	Second monitoring period	
Duration of this monitoring period	01/06/2015-31/05/2018 (first and last days included)	
Monitoring report number for this monitoring report	n.a.	
Project participants	Doğan Enerji Yatırımları San. ve Tic. A.Ş	
Host Party	Turkey	
Sectoral scopes	Sectoral Scope: 01, Category “Energy industries (renewable - / non-renewable sources)”	
Applied methodologies and standardized baselines	Selected Methodology: ACM0002.: Grid connected electricity generation from renewable electricity generation - Version 12.1.0.	
Amount of GHG emission reductions or net anthropogenic GHG removals achieved by the project activity in this monitoring period	Amount achieved before 1 January 2013	Amount achieved from 1 January 2013
	335,594 tCO ₂	566,318 tCO ₂
Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the PDD	621,564 tCO ₂	

SECTION A. Description of project activity

A.1. General description of project activity

Sah Wind Power Plant has been located in Bandirma district of Balıkesir province and in Karacabey district of Bursa province in Turkey and developed by Galata Wind Enerji A.S. The project activity is a wind power plant consists of 35 Vestas V90 wind turbines, each has 3 MW capacities making the total installed capacity of 105 MWm /105 MWe according to Generation License.¹ The generated electricity is fed to the national grid. The net electricity production is 341,275 MWh and the annual emission reductions are estimated to be 207,188 tCO₂ per year and a total reduction of 1,450,316 tCO₂ over the 7-year crediting period.

When the project was first planned, Sah WPP had 31 turbines each having an output of 3.0 MW. The total electricity production of the project was estimated as 305,775 MWh/year. Therefore, the expected annual average emission reduction was calculated as 185,636 tCO₂/yr. The construction of the project started in July 2010. As of July 29th, 2011, first 31 turbines were fully commissioned. After the completion of the construction works and commissioning, the project was taken over by Doğan Enerji Yatırımları San. ve Tic. A.Ş. in June 2012. In the further stages of the project, the company decided to install 4 additional turbines (4 x 3 MW = 12 MW) to the project. In March 2012, a Wind Farm Assessment Report was prepared by VESTAS and the expected electricity generation of the additional 4 turbines is calculated as 35.5 GWh/yr. Based on the results of this report, the company decided to increase the total installed capacity of the project to 105 MWm with additional 4 Vestas V90 / 3000kW type wind turbines. These additional 4 wind turbines are commissioned on 24th May 2013.² Therefore, the net electricity production is reached 341,275 MWh and the annual emission reductions are estimated to be 207,188 tCO₂ per year. The total installed capacity was limited with 93 MWe by EMRA with the date of 04/04/2012 electricity generation license. Afterwards, the Generation License of the Project was amended and the permitted installed capacity was increased to 105 MWm /105 MWe on 26/09/2013.

The Project aims to generate electricity from wind energy and feed it to the national electricity grid. The project helps reduce GHG emissions generated from the national grid, which is significantly based on fossil fuel electricity generation. The national electricity settlement centre manages supply of power plants such that the power generation of thermal power plant-dominated generation system is reduced at the same amount the Project activity exports power. This ensures that the emissions are actually decreased.

The wind-driven blades are connected to an electricity generator, which produces electrical energy and supplies it to the grid without storage. When the wind speed is very low, there is no electricity generation and the wind farm might draw some electricity from the grid. Vestas a Denmark turbine manufacturer has been selected as technology provider due to the quality of its products in terms of high reliability, grid friendliness, low maintenance requirements and low noise levels.

Relevant dates for the project activity: The project activity milestones are:

Date	Milestone
10/04/2008	Obtaining Generation License
06/08/2010	Start of Turbine Construction
24/01/2011	Validation of project activity

¹ Generation License has provided to the DOE.

² The related acceptance protocol was provided to the DOE

19/05/2011	Commissioning Date of first phase of the plant (21 x 3 = 63 MW)
03/06/2011	Commissioning Date of the second phase (9 x 3 = 27 MW)
29/07/2011	Commissioning Date of the third phase (1 x 3= 3 MW)
15/11/2011	Start of first crediting period and first monitoring period
10/02/2012	Additional Protocol signed with VESTAS for the capacity addition
04/04/2012	License Amendment (Increase in number of turbines as 35 turbines)
11/06/2012	License Amendment (Change of corporate name to Galata Wind Enerji A.Ş.)
20/06/2012	Galata Wind Enerji A.Ş. is taken over byDoğan Enerji
24/05/2013	Commissioning Date of the last additional 4 turbines phase (4 x 3= 12 MW)
15/11/2013	Gold Standards registration of Project Activity
31/10/2013	End of first monitoring period
01/06/2015- 31/05/2018	Second monitoring period

Total emission reductions achieved in this monitoring period: 566,318 tCO₂³

A.2. Location of project activity

The project is located in Marmara Region in Bandirma district of Balıkesir and Karacabey district of Bursa, in Turkey. The project area is amongst Sahmelek Village, Yenice Village and Dedeoba Village.

The coordinates of the turbines are as the following:

Table 1. Turbine Coordinates ⁴

Turbine	E	N
T1	601446	4469492
T2	601695	4469465
T3	601926	4469480
T4	601743	4470297
T5	602108	4470241
T6	602333	4470018
T7	602874	4470631
T8	603224	4470533
T9	603444	4470612
T10	603343	4470097
T11	603636	4470090
T12	603976	4470085
T13	604164	4469983
T14	604329	4469736
T15	604562	4469683
T16	604850	4469820

³ The total emission reduction value has been rounded down for conservativeness.

⁴ Source: Generation License

T17	604592	4469322
T18	604616	4469042
T19	603447	4469092
T20	603741	4468904
T21	604059	4468715
T22	604243	4468577
T23	604367	4468170
T24	604528	4468006
T25	604974	4468277
T26	605165	4468800
T27	604791	4468934
T28	605437	4469378
T29	605164	4469847
T30	605619	4470422
T31	605910	4470168
T32	605403	4469825
T33	605127	4469094
T34	602472	4469783
T35	601498	4470370

Figure 1: Project Location on Turkey Map

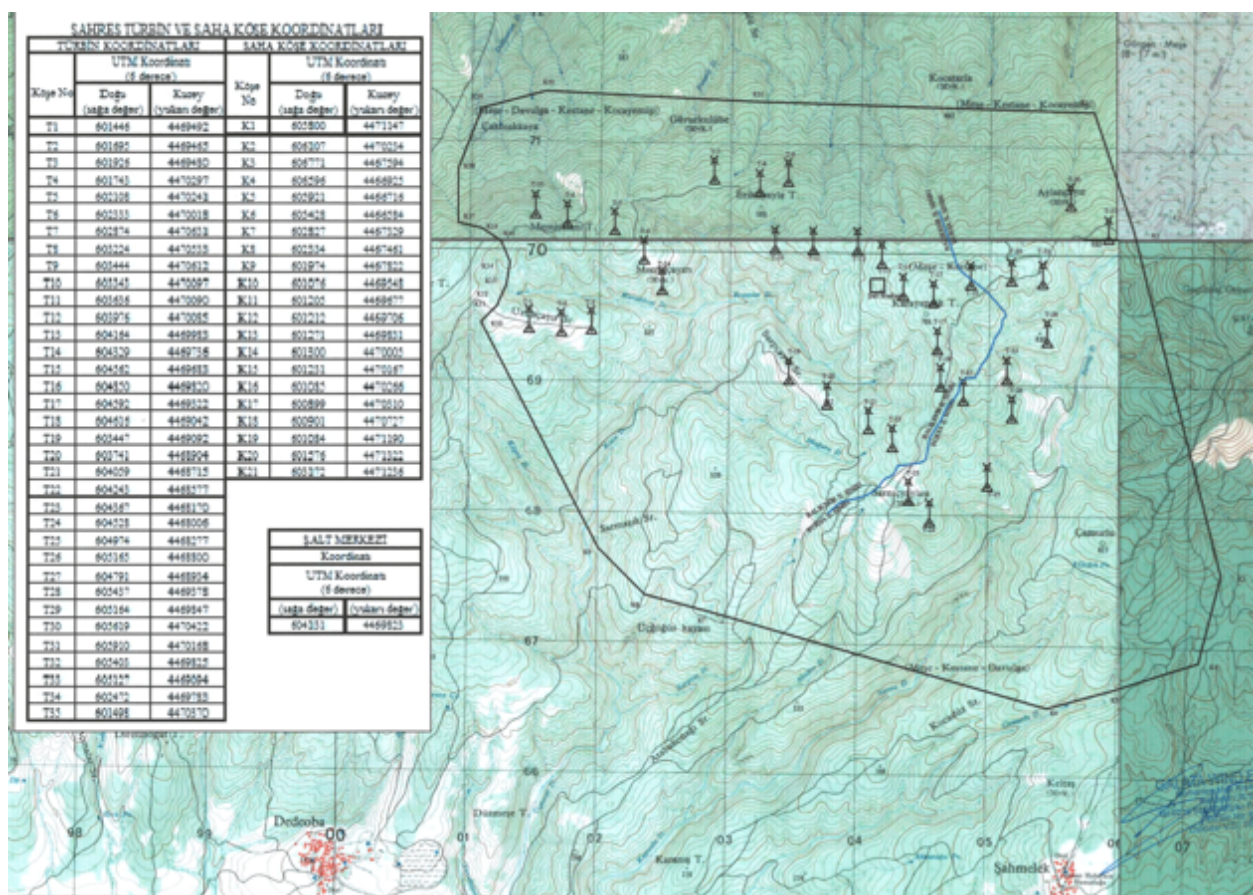


Figure 2: Site Layout of 35 turbines

A.3. Parties and project participants

Party involved ((host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/no)
Turkey (Host country)	Galata Wind Enerji A.Ş.	No
Turkey (Host country)	Doğan Enerji Yatırımları San. ve Tic. A.Ş	No

A.4. Reference to applied methodologies and standardized baselines

The project applies CDM-EB approved ACM0002: Grid-connected electricity generation from renewable sources - Version 12.1.0.⁵

The methodology refers to:

- “Tool for the demonstration and assessment of additionality”, Version 05.2.0.⁶

⁵

P.S: (https://cdm.unfccc.int/EB/052/eb52_repan07.pdf) when you checked this link which is provided in the registered PDD, it can be seen as v11

⁶ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v5.2.pdf>

- “Tool to calculate the emission factor for an electricity system” version 2.0.0.⁷

A.5. Crediting period of project activity

Type of crediting period: Renewable

Date of the crediting period: 15/11/2011- 14/11/2018

Length: 7 years 0 months, this is planned to be renewed twice.

This is first crediting period.

SECTION B. Implementation of project activity

B.1. Description of implemented project activity

The project has 35 wind turbines with a unit capacity of 3,000 kWm /3,000 kWe. With a total installed capacity of of 105 MWm/105 MWe. The full commissioning date of the project activity was 24/05/2013.

All the WTGs have run successfully during the reported monitoring period. All the physical and technical features as stated in the registered PDD are in place and project has been operated as described in the registered PDD. There were no significant overhaul times, downtimes of equipment, any other special events or emergency reported for the project during the monitoring period between 01/06/2015 – 31/05/2018.

This is the second verification.

There is 35 Vestas V90 type of wind turbines with 90 m rotor consisting of three blades and the hub., each having an output of 3000 kWm/3000 kWe (total capacity 105.0 MWm / 105 MWe). The equipments were provided from Vestas which is one of the largest suppliers of wind turbines in the world.⁸

The delivered electricity is being metered at 154 kV high voltage side of the step up transformer installed at the project site. The meters measure the electricity delivered to the grid and also the electricity traction from the grid.

⁷ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v2.pdf>

⁸ <http://www.vestas.com/>

(P.S.:http://www.gov.pe.ca/photos/sites/envengfor/file/950010R1_V90-GeneralSpecification.pdf)

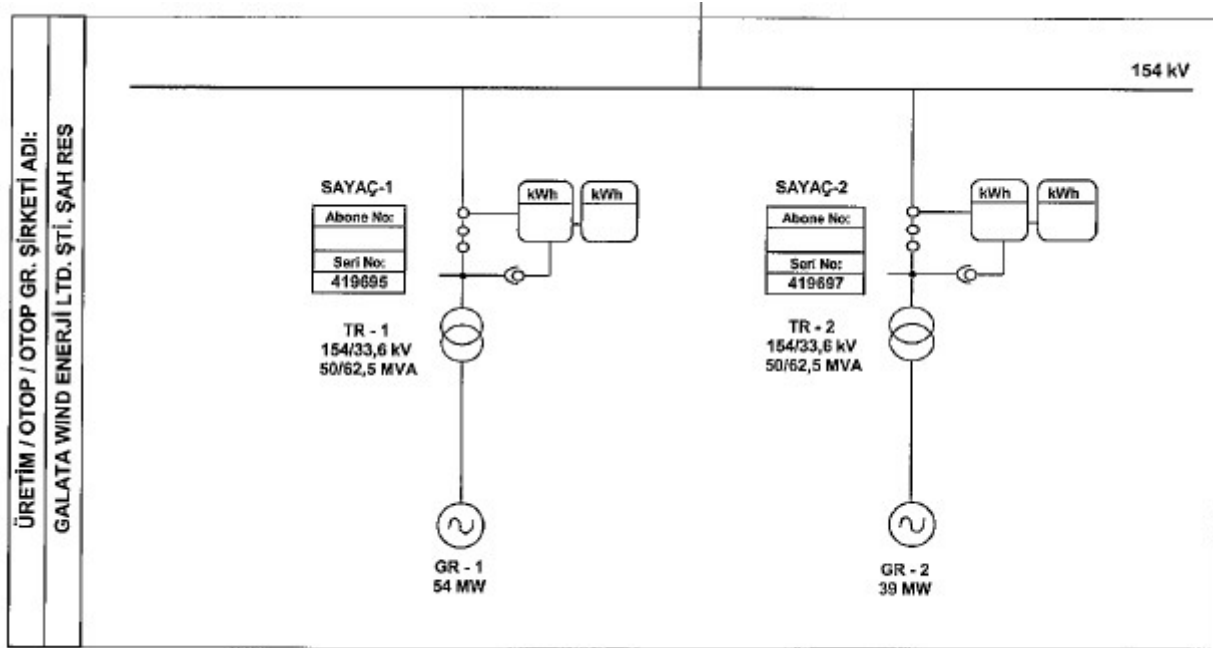


Figure 4: Transformers and meters on Line Diagram of Sah Wind Power Plant

The scheme shows the connection points of Sah WPP with the national grid. Two electricity meters are installed at Sah WPP.

B.2. Post-registration changes

B.2.1. Temporary deviations from the registered monitoring plan, applied methodologies or standardized baselines

There is no request for deviation applied during this monitoring period.

B.2.2. Corrections

There are no corrections applied during this monitoring period.

B.2.3. Changes to the start date of the crediting period

The crediting period start date is defined in line with the Gold Standard Requirements, Section V.a.2.1: "For VER project activities proceeding under the regular project cycle, the start date of the Gold Standard Crediting Period shall be the date of start of operation or a maximum of two years prior to Gold Standard registration, whichever occurs later"⁹. Since the commissioning date of the first phase of project activity is 19/05/2011 and commissioning date of the last phase of the plant is 24/05/2013¹⁰. The registration date of the project is November 15th, 2013 and the crediting period start date is defined as November 15th, 2011.

B.2.4. Inclusion of monitoring plan

Not applicable as, registered PDD includes monitoring plan.

⁹ http://www.cdmgoldstandard.org/wp-content/uploads/2013/01/GSv2.2_Requirements.pdf

¹⁰ Provisional Acceptance Protocols was provided to the DOE

B.2.5. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools

There is one change realized related with the consultant side. Rüzgar Danışmanlık (Çağla Balcı Eriş) is developed Monitoring report and Calculation of emission reductions.

B.2.6. Changes to project design

There are no changes on the project design of registered project activity

SECTION C. Description of monitoring system

The monitoring plan is developed in accordance with the modalities and procedures for CDM project activities. The monitoring plan, which is implemented by the project proponent describes about the monitoring organisation, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving.

Data processing and archiving:

Monitoring data is collected in accordance with the agreement done between the project owner and TEİAŞ which provides the infrastructure for the connection to the national grid. The metering system is defined in the agreement as two groups: main meter and secondary meter. The design of the metering system is checked and approved by TEİAŞ before commissioning of the plant. The technical specifications of the power meters should be in line with Measure and Metering Devices Regulation by Ministry of Industry and Trade. In addition, the Communiqué for Power Meters announced by Energy Market Regulations Authority (EMRA) requires all meters to be in line with either Turkish Standards Institution or International Electro Technical Commissions Standards. The meters are placed at the point the electricity is fed to the grid and sealed on behalf of the both parties. This prevents any intervention and assures the accuracy and quality of the measurements. All requirements and specifications of the meters have been done according to Communiqué on the counter to be used in the Electricity Market by Energy Market Regulatory Authority on 22/04/2011

Data have been stored electronically, during the crediting period and at least two years after the last issuance of credits for the wind farm project activity in the concerning crediting period. The project participants also archived a hardcopy of meter reading protocols, scanned them and stored them. Furthermore, the EPIAS system stores the reports electronically, which is accessible to the Project owner whenever necessary.

QA/QC procedures:

There are two transformers for measurements. One of them is back-up and it is put into operation in case of any failure. The main goal is to provide continuous measurement. There are two unit meters attached to the power plant for measurement of the generated electricity. The main and back-up meter readings are recorded monthly and cross-checked whether calibration is required. The meters ELSTER A 1500- which is used in the power house are in line with the EMRA requirements for electricity meters. The accuracy class for power meters have been defined in the Communiqué for Power Meters as 0.5 class. Maintenance and calibration of TEİAŞ meters have been carried out according to the System Usage Agreement. The meters have been tested every year or once in two years by local legal requirements. (TEIAS) And the calibration frequency of the meters is 10 years.

TEİAŞ is the main responsible for calibration and maintenance of the devices.¹¹ Since TEİAŞ meters are sealed by TEİAŞ, the project proponent cannot intervene with the devices. The net electricity export/supplied to a grid is the difference between the measured quantities of the grid electricity export and the import.

The internal control procedures maintain the reliability and accuracy in the data transfer and calculations. The plant personal records the data on regular basis from both meters and compares the values for consistency. The responsible engineer performs regular checks of this procedure each month and controls the monthly data of main and secondary meters. If any difference occurs between the two meters, TEİAŞ has to be informed for further actions. Reliability and accuracy of monthly values is reached by comparative readings both from the project participant and TEİAŞ, where high accuracy is guaranteed and needed by the requirements of billing purposes.

Roles and responsibilities:

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data rests with the project proponent. PP proposed the following structure for data monitoring, collection, data archiving and calibration of equipment's for this project activity.

In the diagram below the organisation of monitoring management and data application is presented:

Figure 5: Organizational Structure Chart

The Plant Manager is responsible for the plant as well as the monitoring issues on behalf of Project Participant on site. The data is collected and stored by Galata not only during the crediting period but also two years after the last issuance of GS VERs to ŞAH WPP project for that crediting period.

In addition, the emission factors were calculated ex-ante for the period of 7 years. The combined margin will be recalculated through ACM0002 / Version 12.1.0, any time the crediting period is renewed. Please note that the project is a zero emission generating activity and no particularly sensitive or critical sustainable development indicator was identified.

ID Number	Data Variable	Source of Data	Data Unit	Measured(m) Calculated (c) Estimated (e)	Recording Frequency	Proportion of data to be monitored	How will the data be archived? (electronic or paper)	Comment
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¹¹ <http://www.mevzuat.gov.tr/Metin.Aspx?MevzuatKod=7.5.6381&sourceXmlSearch=&MevzuatIliski=0>

1. EGfacility,y	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	Metering device from the grid operator	MWh	m	Continuously	100%	Electronic and paper	The data is obtained from the monthly EPIAS records
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Details of metering, metering equipment's, meter readings, calibration and maintenance details are given below:

Metering:

The serial numbers of the meters are 00419695 (main meter) and 00419696 (back-up meter) for TR-1 and serial numbers of the second unit meters are 00419697 (main) and 00419698 (back-up) meter of TR-2 (back-up transformer) (Please see Figure 4). The First Index Protocol for main and back-up meters was submitted by TEIAS on 28/04/2011 and the accuracy class of the meters is 0.5s¹². In addition, sum of the two main meters' measurements is collected. The initial calibration and test of the meters were made by a third party (Kesir Muhendislik) on 13/04/2011. TEIAS requests annual test for the meters. Therefore, the latest test of meters was done by TEIAS on 04/10/2017¹³.

The delivered electricity is being metered at 154 kV high voltage side of the step up transformer installed at the project site. The meters measure the electricity delivered to the grid and also the electricity traction from the grid. Based on these measurements, the net electricity supplied to the grid is calculated from the EPIAS records and this amount determines the emission reduction figures. As the necessary baseline emission factors are all defined ex ante, the only information to be monitored is the amount of electricity fed into the grid by ŞAH WPP. The data was taken from the EPIAS records.

Data Cross-checking

As description above all production figures which are subject to sales to the grid are agreed with EPIAS (Market Financial Reconciliation Centre). These figures can be accessed from EPIAS's web site by the seller. Therefore, net electricity production figures announced by EPIAS is used in emission calculation figures. These figures are also cross checked with the production and internal electricity usage figures provided from the OSF forms which are provided to the company by TEIAS after the remote measurement of the meters.

Copies of OSF forms and EPIAS records are collected and stored in the plant. The plant manager of ŞAH WPP or his assistant (in the absence of the manager) is responsible for providing the measurement records which show the monthly electricity generations and imports of the project.

The monthly meter reading documents (settlement notifications of PMUM) are stored by GALATA and TEIAS. Monthly data from TEIAS are stored electronically on TEIAS website and this data can be accessed by login of Project Developer.¹¹

¹² First Index Protocol was provided to DOE

¹³ Meters Test Report was provided to DOE

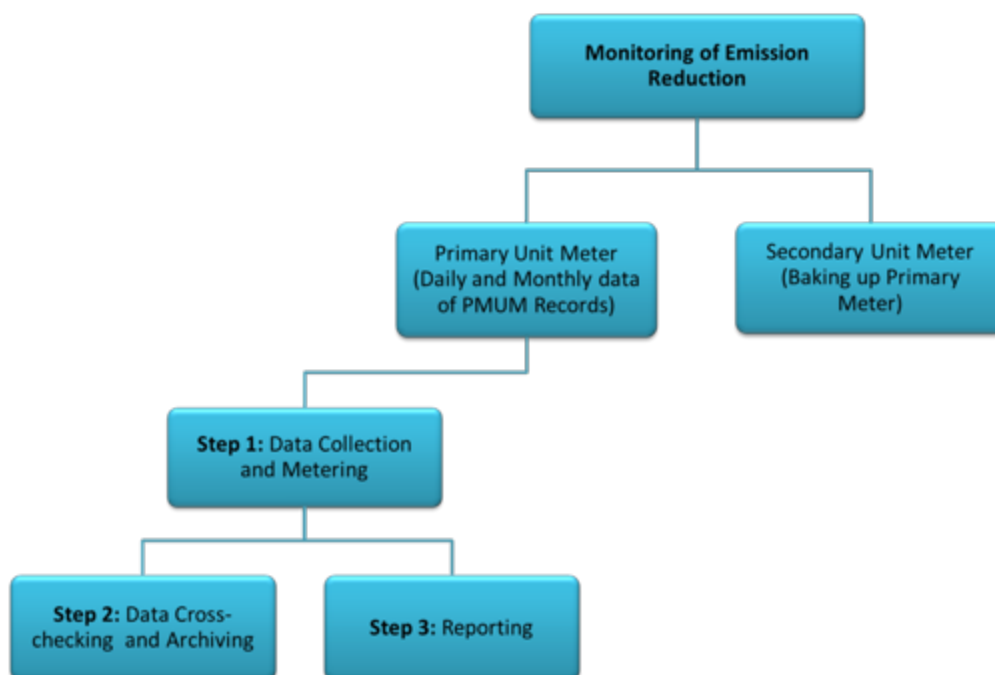


Figure 6: Line diagrams showing all relevant monitoring points

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante

Data / Parameter	EF_{grid,CM,y}
Unit	tCO ₂ /MWh
Description	Emission factor of the Turkish grid
Source of data	Şah Wind Power Plant PDD registered under GS (GS905)
Value(s) applied	0.6071
Choice of data or Measurement methods and procedures	Baseline emission calculation
Purpose of data	The emission factor of the Turkish grid is calculated ex-ante and has been fixed for the first crediting period.
Additional comment	-

D.2. Data and parameters monitored

Data / Parameter	Electricity Production /EGfacility,y																																											
Unit	MWh/yr																																											
Description	Quantity of net electricity generation supplied to the grid in year y																																											
Measured/calculated/default	Measured. The net electricity generation supplied to the grid has been measured continuously by TEAIS meters (both main and spare) and recorded monthly.																																											
Source of data	EPIAS (Market Financial Settlement Center) records (Meter reading records-OSF forms of main meters are cross-checked)																																											
Value(s) of monitored parameter	Net electricity generation between 01/06/2015-31/12/2015: 190,649.752 MWh Net electricity generation between 01/01/2016- 31/12/2016: 325,215.876 MWh Net electricity generation between 01/01/2017-31/12/2017: 293,821.241 MWh Net electricity generation between 01/01/2018-31/05/2018: 123,141.404 MWh Total net electricity generation during monitoring period: 932,828.273 MWh																																											
Monitoring equipment	The meters provide high accuracy and stability were supplied from Elster Group. There are four unit meters attached to the power plant for measurement of the generated electricity. Information of the meters are listed as followed: TR-1 Transformer <table border="1"> <thead> <tr> <th></th><th>Electricity Meter (Primary)</th><th>Electricity Meter (Spare)</th></tr> </thead> <tbody> <tr> <td>Manufacturer</td><td>ELSTER</td><td>ELSTER</td></tr> <tr> <td>Model</td><td>A1500</td><td>A1500</td></tr> <tr> <td>Serial number</td><td>419695</td><td>419696</td></tr> <tr> <td>Date of installation</td><td>13/04/2011</td><td>13/04/2011</td></tr> <tr> <td>Date of initial calibration</td><td>28/04/2011</td><td>28/04/2011</td></tr> <tr> <td>Date of last test by TEIAS</td><td>04/10/2017</td><td>04/10/2017</td></tr> </tbody> </table> TR-2 Transformer <table border="1"> <thead> <tr> <th></th><th>Electricity Meter (Primary)</th><th>Electricity Meter (Spare)</th></tr> </thead> <tbody> <tr> <td>Manufacturer</td><td>ELSTER</td><td>ELSTER</td></tr> <tr> <td>Model</td><td>A1500</td><td>A1500</td></tr> <tr> <td>Serial number</td><td>419697</td><td>419698</td></tr> <tr> <td>Date of installation</td><td>13/04/2011</td><td>13/04/2011</td></tr> <tr> <td>Date of initial calibration</td><td>28/04/2011</td><td>28/04/2011</td></tr> <tr> <td>Date of last test by TEIAS</td><td>04/10/2017</td><td>04/10/2017</td></tr> </tbody> </table>			Electricity Meter (Primary)	Electricity Meter (Spare)	Manufacturer	ELSTER	ELSTER	Model	A1500	A1500	Serial number	419695	419696	Date of installation	13/04/2011	13/04/2011	Date of initial calibration	28/04/2011	28/04/2011	Date of last test by TEIAS	04/10/2017	04/10/2017		Electricity Meter (Primary)	Electricity Meter (Spare)	Manufacturer	ELSTER	ELSTER	Model	A1500	A1500	Serial number	419697	419698	Date of installation	13/04/2011	13/04/2011	Date of initial calibration	28/04/2011	28/04/2011	Date of last test by TEIAS	04/10/2017	04/10/2017
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	The accuracy of meters (A1500)¹⁴ is given as 0.5s (active) There were the following special events additional to the milestones described in section B.2.6 Calibration frequency: According to the Article 9 of the relevant regulation¹⁵, periodical inspections of “gauges for electric, water, coal gas, natural gas and, current and voltage measuring transformers will be made once in 10 years”. This is in line with the monitoring plan and national requirements. The Project owner has no control over or access to the measurement devices and is not entitled to perform any type of maintenance or calibration.
Measuring/reading/recording frequency:	EPIAS records provides the exact electricity generation of the facility and the imports from the grid. The electricity meters have been controlled and maintained by the grid owner. The quantity of net electricity delivered to the grid has been cross checked with the meter reading records (OSF forms) provided to the company by TEIAS ¹⁶
Calculation method (if applicable):	The net electricity of the facility is the difference of the electricity exported to the grid and imported from the grid.
QA/QC procedures:	- Measurements are undertaken using energy meters. There are two measurement devices continuously measuring and recording electricity generation and consumption of the Project activity. The primary measurement (main) device is used for invoicing, and the spare measurement (back-up) device is used for quality control and back-up purposes - Concerning metering system accuracy, project participants have to comply with relevant national legislation. The project must ensure that the metering devices are in line with the technical requirements which are set out by the Communiqué for Metering Devices to be used in the Electricity Market, which describes the minimum accuracy requirement the metering devices have to fulfil, which are categorized according to the installed capacity. This ensures the quality and continuity of monitored data. - Maintenance and calibration of the meters is carried out according to the TEİAŞ. Since the meters are sealed by TEİAŞ, the project proponent cannot intervene with the devices. - The net electricity export/supplied to a grid is the difference between the measured quantities of the grid electricity export and the import. EPIAS records are crosschecked with the meter reading records.(OSOS)
Purpose of data:	Calculation of baseline emissions
Additional comment:	None

¹⁴ A1500 Brochure has given to the DOE.

¹⁵ “Measurement and Measuring Tools Inspection Regulation”, Date: 24/07/1994, Official Gazette Number: 22000

¹⁶ All production figures which are subject to sales to the grid are agreed with EPIAS (“Market Financial Settlement Centre”). These figures can be accessed from EPIAS’s web site by the seller. Therefore, net electricity production figures announced by EPIAS will be used to calculate the emission reductions.

According to the requirements of Gold Standard, the project activity must be assessed against a matrix of sustainable development indicators. The contribution of the proposed project activity to the sustainable development of the country is based on indicators of local/global environment sustainability, social sustainability & development and economic & technological development.

With regards to the project activity 18 indicators were added to the monitoring plan. All documents regarding these additional parameters can be presented to the DOE during verification process:

“SDI 1. Air Quality” chosen parameter is “Dust emissions during the construction phase ” monitored once during the first verification period. The project has caused dust emission during the construction phase. It is calculated by the investor that the dust emission is below the legal limits. All necessary precautions to ensure the air quality has been taken by the investor. These precautions include, warning drivers about speed limits, sprinkling the circulation roads of trucks, covering the truckloads, loading and discharging of soil without swinging. The DOE were interviewing with the local people and seen some photos during the first verification site visit. So, there has been no change since the first monitoring period. Briefly, this parameter is not applicable to the current monitoring period.

No	SDI.3
Indicator	Water Quality and Quantity
Mitigation measure	Mitigation measure is not required. There is no huge excavation works or tunnel driving activities which can affect the ground water in the region. In addition, the project has not resulted in any chemical wastes. Waste water produced by workers during construction and operation have been collected in a sealed septic tank and later discharged by the local authority as per the “Regulation on Control of Water Contamination.
Chosen parameter	The amount of discharged wastes to the water resources
Current situation of parameter	The company has not discharged any waste water to the surface or ground water. Some photos of transfer of waste water from power plant by vacuum truck and official records (invoices) have been provided to the DOE. 

			
Estimation of baseline situation of parameter		No domestic waste water generation in the baseline scenario. Currently, there is no municipal sewer system in the vicinity of the project area	
Future target for parameter		Disposal of waste water as required by the relevant regulations	
Way of monitoring	How	Project activity site visit / Wastewater delivery official records (invoices) ¹⁷	
	When	Continuously	
	By who	The Municipality/Project Owner	
Purpose of data:		Monitoring of sustainability parameters	
Additional comment:		n.a	

"SDI 4. Soil condition " chosen parameter is "The use of storage areas for excavated earth and the removal of excavated earth" monitored once during the first verification period. The project owner has been removed the excavated earth in line with the "Regulation on Control of Solid Wastes, Art.23". The storage areas for excavated earth has not been used because all of the excavated earth has been used for filling turbine locations and flattening the service roads in project area. The DOE were checking this during the first verification on site visit. So, there has been no change since the first monitoring period. Briefly, this parameter is not applicable to the current monitoring period.

"SDI 5. Other Pollutants (Noise) " chosen parameter is "The noise level in the region after the project implementation" monitored if there is any complaint. The company has hired a third party which is accredited by the ministry in order to measure the noise level and according to noise report results which is prepared during operation of plant by third party the project is not exceed the noise limits which are set by "Turkish Regulation on assessment and Management of Environmental Noise ". In order to mitigate the noise level, the turbines with reduced noise operation system were chosen and they have been properly positioned in terms of possible noise emissions. The DOE was checking the "Noise Level Measurement Report", it was prepared by third party during the first verification on site visit. So, there has been no change and no complaint since the first monitoring period. Briefly, this parameter is not applicable to the current monitoring period.

No	SDI.6 (FAR #3)
Indicator	Other Pollutants- New level of the roads
Mitigation measure	No mitigation measures are required
Chosen parameter	Road conditions- Reducing the elevation difference in right and left of the road

¹⁷ The related invoices have been provided to the DOE.

Current situation of parameter		The company has been improved the conditions of roads to mitigate the effect of rough road condition after the construction of the project. After the improving of the roads the stakeholders can pass to the opposite site and they can reach the slip roads that they use for moving into the forest. The project owner has made their commitment that the soil stacks and corrections has been made to reduce the elevation difference. 
Estimation of baseline situation of parameter		n.a.
Future target for parameter		After the DOE confirmation this will be not monitored.
Way of monitoring	How	Checking the condition of road
	When	During the complete construction phase
	By who	The company
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		n.a

"SDI 7. Biodiversity " chosen parameter is "Design and location of the turbines" monitored after the implementation complete which is once during the first verification period. The project does not affect the flora, fauna and their breeding or feeding areas. Also, according to expert reports and ornithology report, the project area is far away the migration routes and the bats does not be affected by the project. However, in order to mitigate the possible negative impacts of the project, some precautions are planned to be taken, such as: the site is selected in an area where there are no important bird areas, wetlands or high bird activity; sufficient distance (from 250 m to 300 m) is placed between the turbines; appropriate storm water management measures have been implemented to avoid creating small ponds which can attract birds and bats for feeding or nesting near the wind farm and turbine blades have been painted by reflecting color. The DOE were checking painting and lighting the turbines and location of the turbines, and expert ornithology reports during the first verification on site visit. So, there has been no change since the first monitoring period. Briefly, this parameter is not applicable to the current monitoring period.

No	SDI.8 (FAR #1)
Indicator	Biodiversity
Mitigation measure	n.a
Chosen parameter	Plantation and landscaping activities
Current situation of parameter	The project area has been planted with the appropriate vegetation's and tree by the project owner. Project owner has made payment for reforestation. The plantation has started after

		the first verification. ¹⁸
Estimation of baseline situation of parameter		n.a.
Future target for parameter		n.a.
Way of monitoring	How	Site Visits/ Checking the landscaping activities
	When	During the second verification time
	By who	The company
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		n.a

No	SDI.9
Indicator	Biodiversity
Mitigation measure	n.a
Chosen parameter	Warnings signs and pictures
Current situation of parameter	In order to mitigate the project effects on wild animals, warnings sign and pictures have been put on the roads. There is no Injury or deaths records for animals. Furthermore, the related logbook has prepared for the monitoring this parameter and there is no injury or death records of animals.¹⁹ Some of the pictures from the road have been provided as below: 

¹⁸ The related payment document for reforestation has provided to DOE.

¹⁹ The related notebook(logbook) has provided to the DOE.

		
Estimation of baseline situation of parameter		n.a.
Future target for parameter		The future target of project owner preventing any animal injury and deaths on project area.
Way of monitoring	How	Site Visits / Injury or deaths records for animals
	When	During verification/Continuously
	By who	The company /Project manager
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		n.a

No	SDI.10	
Indicator	Quality of employment	
Mitigation measure	n.a.	
Chosen parameter	Number of employees to be trained/certified for the construction and operation of the plant.	
Current situation of parameter	Health and Safety Trainings are provided to the 25 employees and some related trainings for technician personnel. Attendance record or certificate provided to the DOE.	
Estimation of baseline situation of parameter	Continuation of current situation	
Future target for parameter		
QA/QC procedures:	n.a.	
Measured/calculated/default	n.a.	
Monitoring equipment	n.a.	
Way of monitoring	How	Training records and achievement certificates
	When	Yearly
	By who	The company / Project manager
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		n.a

No	SDI.12	
Indicator	Quantitative Employment and Income Generation	
Mitigation measure	No mitigation measures are required	

Chosen parameter	Household income generated from the project (The project owner is committed to prioritize local labour force while selecting construction workers. As a result the employment rate and income generation in the region will increase.)	
Current situation of parameter	The company is provided job opportunities and as a result, employment rate and income generation was increased. 25 workers are working for the operation of the plant. According to the social security contribution documents of the project, 25 project employs from operation phases being local.	
Estimation of baseline situation of parameter	n.a.	
Future target for parameter	n.a.	
Way of monitoring	How	SGK (Social Security Institution) Records of the company ²⁰
	When	Continuously
	By who	The company / Project manager
Purpose of data:	Monitoring of sustainability parameters	
Additional comment:	n.a.	

"SDI.14 Technology transfer and technological self –reliance " chosen parameter is "Number of technicians and engineers trained for the operation of the plant" monitored after the implementation of the electromechanical equipment's complete and it was once during the first verification period. Electromechanical equipment agreement and training records of technicians and engineers had been provided to the DOE during the first verification period. The DOE was checking all of them and there has been no change since the first monitoring period. Briefly, this parameter is not applicable to the current monitoring period.

No	SDI.15	
Indicator	Vehicle donation to the National Parks of Ministry of Environment and Forestry	
Mitigation measure	No mitigation measures are required	
Chosen parameter	Donated vehicle bills	
Current situation of parameter	The National Parks of Ministry of Environment and Forestry does not have a vehicle to be used to provide emergency aid to injured wild animals. A 4x4 land vehicle is to be donated to the National Parks of Ministry of Environment and Forestry to be used to provide emergency aid to injured wild animals. In addition, the monthly fuel cost (max. 400 liters) has been met.	
Estimation of baseline situation of parameter	n.a.	
Future target for parameter		
QA/QC procedures:	n.a.	
Measured/calculated/default	n.a.	
Monitoring equipment	n.a.	
Way of monitoring	How	Monthly fuel cost bills ²¹
	When	Yearly
	By who	The company / the National Parks of Ministry of Environment and Forestry
Purpose of data:	Monitoring of sustainability parameters	
Additional comment:	n.a.	

²⁰ SGK records of employments are provided to DOE.

²¹ The regarding bills are provided to the DOE.

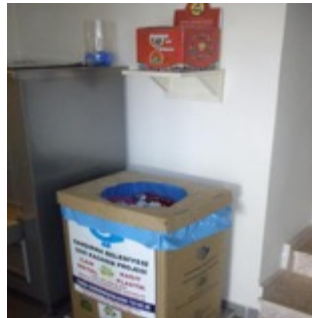
No	SDI.16	
Indicator	Employment of workers for Rescue Centre, and Pheasant Production Station, and a PR expert	
Mitigation measure	No mitigation measures are required	
Chosen parameter	Payrolls	
Current situation of parameter	The National Parks of Ministry of Environment and Forestry does not have such personnel to be used to monitor the regarding project. 5 workers are working for Rescue Centre and Pheasant Production Station in the Sah WPP.	
Estimation of baseline situation of parameter	n.a.	
Future target for parameter	n.a.	
QA/QC procedures:	n.a.	
Measured/calculated/default	n.a.	
Monitoring equipment	n.a.	
Way of monitoring	How	Regarding payrolls /SGK records/ Statement of employment ²²
	When	Yearly
	By who	The company / the National Parks of Ministry of Environment and Forestry
Purpose of data:	Monitoring of sustainability parameters	
Additional comment:	The parameter will be monitored by the project company and the National Parks of Ministry of Environment Forestry.	

No	SDI.17	
Indicator	Shooting of a documentary film biannually	
Mitigation measure	No mitigation measures are required	
Chosen parameter	Regarding Bills	
Current situation of parameter	The National Parks of Ministry of Environment and Forestry has requested one documentary and the project owner has made their request. ²³	
Estimation of baseline situation of parameter	n.a.	
Future target for parameter	n.a.	
QA/QC procedures:	n.a.	
Measured/calculated/default	n.a.	
Monitoring equipment	n.a.	
Way of monitoring	How	Regarding bills
	When	In line with the National Parks of Ministry of Environment and Forestry request/ Biannually
	By who	The company / the National Parks of Ministry of Environment and Forestry
Purpose of data:	Monitoring of sustainability parameters	
Additional comment:	n.a.	

No	SDI.18
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²² SGK records are provided to the DOE.

²³ The expense document related with National Parks of Ministry of Environment and Forestry documentary request has been provided to the DOE.

Indicator	Waste Management	
Mitigation measure	No mitigation measures are required	
Chosen parameter	Disposal of Waste oils and Hazardous solid wastes	
Current situation of parameter	The hazardous solid wastes and waste oils originated from waste filters piles etc. have been stored in an impermeable and full closed container and delivered to licenced hazardous waste disposal firm.²⁴ Also, the recyclable wastes have been stored in containers in line with “Solid Wastes Control Regulations” and delivered to licenced recycling firms.  	
Estimation of baseline situation of parameter	n.a.	
Future target for parameter	n.a.	
QA/QC procedures:	n.a.	
Measured/calculated/default	n.a.	
Monitoring equipment	n.a.	
Way of monitoring	How	Project activity site visit/ Agreement with the municipality and waste disposal firms, waste disposal records, existence of waste transportation vehicles or interview with the municipality
	When	Continuously
	By who	The company / The Municipality
Purpose of data:	Monitoring of sustainability parameters	
Additional comment:	n.a.	

No	FAR#2
Indicator	The training, research, symposiums for the Nature Protection and National Parks employees
Mitigation measure	No mitigation measures are required
Chosen parameter	Training records /Regarding Bills
Current situation of parameter	5 Nature Protection and National Parks staffs has taken Health and Safety Training during this monitoring period. The parameter is monitored continuously and training records have been provided to DOE and GS for this monitoring period. ²⁵
Estimation of baseline situation of parameter	n.a.
Future target for parameter	n.a.

²⁴ The related documents have been provided to the DOE.

²⁵ The related Health and Safety training attendance list and their certificates have been provided to the DOE.

QA/QC procedures:		n.a.
Measured/calculated/default		n.a.
Monitoring equipment		n.a.
Way of monitoring	How	Training records /Regarding Bills will be provided to DOE.
	When	Yearly
	By who	The company / the National Parks of Ministry of Environment and Forestry
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		The parameter will be monitored by the project company and the National Parks of Ministry of Environment Forestry.

No		FAR#4
Indicator		Informational meeting correspondence of the Nature Protection and National Parks Administration
Mitigation measure		No mitigation measures are required
Chosen parameter		Informational meeting for the stakeholders
Current situation of parameter		The informative meetings organized in collaboration with the Bursa Provisional Directorate of Environment and Forestry. ²⁶
Estimation of baseline situation of parameter		n.a.
Future target for parameter		n.a.
QA/QC procedures:		n.a.
Measured/calculated/default		n.a.
Monitoring equipment		n.a.
Way of monitoring	How	Checking the meeting records
	When	During the 2nd verification
	By who	Project manager
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		n.a.

D.3. Implementation of sampling plan

N/A.

SECTION E. Calculation of emission reductions or net anthropogenic removals

E.1. Calculation of baseline emissions or baseline net removals

The total emission reductions can be calculated with the results of the below described equations. The emission reduction is equal to the baseline emissions minus project emissions and leakage emissions. Leakage emissions in this project are considered to be zero. There are no project emissions in this kind of project.

The general equation is as suggested in ACM0002 / Version 12.1.0., emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

²⁶ The relevant photos of the meeting have been provided to the DOE.

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 in year y ((t CO₂/yr)

As the proposed project activity is a new grid-connected wind power plant. For this reason, PE_y is considered as “0” in line with ACM0002 Version 12.1.0

PE_y=0

Leakage emission (LE_y) is considered as “0” as suggested in ACM0002 Version 12.1.0

The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants. The baseline emissions are calculated as follows:

$$BE_y = EG_{PJ,y} * EF_{grid,CM,y}$$

Where:

BE_y = Baseline emissions in year y (t CO₂/yr)

EG_{PJ,y} = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

EF_{grid,CM,y} = Combined margin CO₂emission 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” (t CO₂/MWh)= 0.6071 t CO₂/MWh

Applying the above equation to the project data given in table for calculation, baseline emissions in 2015, 2016, 2017 and 2018 are as below:

Baseline Emission in between 01/06/2015 and 31/12/2015:

$$BE_{2015} = 190,649.752 \text{ [MWh]} * 0.6071 \text{ [t CO}_2\text{/MWh]} = 115,743.46 \text{ t CO}_2$$

Baseline Emission in 01/01/2016 and 31/12/2016:

$$BE_{2016} = 325,215.876 \text{ [MWh]} * 0.6071 \text{ [t CO}_2\text{/MWh]} = 197,438.56 \text{ t CO}_2$$

Baseline Emission in 01/01/2017 and 31/12/2017:

$$BE_{2017} = 293,821.241 \text{ [MWh]} * 0.6071 \text{ [t CO}_2\text{/MWh]} = 178,378.88 \text{ t CO}_2$$

Baseline Emission in between 01/01/2018 and 31/05/2018:

$$BE_{2018} = 123,141.454 \text{ [MWh]} * 0.6071 \text{ [t CO}_2\text{/MWh]} = 74,759.15 \text{ t CO}_2$$

The baseline emissions for the project activity according to the PDD are included in the following table:

Table 2: Baseline emissions

Month	(A)Electricity supplied to the grid [MWh]	(B)Electricity consumption from the grid [MWh]	(C)=(A)-(B) Net electricity supplied to the grid [MWh]	Baseline emissions (equation) [t CO ₂]
June 2015	22,534.684	43.202	22,491.482	13,654.58

July 2015	30,790.191	40.105	30,750.086	18,668.38	
August 2015	35,392.973	42.726	35,350.247	21,461.13	
September 2015	23,541.829	59.493	23,482.336	14,256.13	
October 2015	30,488.189	41.910	30,446.279	18,483.94	
November 2015	23,185.575	58.801	23,126.774	14,040.26	
December 2015	25,083.197	80.649	25,002.548	15,179.05	
January 2016	24,174.131	55.243	24,118.888	14,642.58	
February 2016	26,791.901	53.044	26,738.857	16,233.16	
March 2016	26,264.906	40.495	26,224.411	15,920.84	
April 2016	15,221.078	63.594	15,157.484	9,202.11	
May 2016	17,405.699	86.371	17,319.328	10,514.56	
June 2016	21,080.384	82.883	20,997.501	12,747.58	
July 2016	39,446.316	17.627	39,428.689	23,937.16	
August 2016	44,911.688	8.800	44,902.888	27,260.54	
September 2016	27,965.099	25.394	27,939.705	16,962.19	
October 2016	23,934.201	64.213	23,869.988	14,491.47	
November 2016	30,624.002	40.169	30,583.833	18,567.45	
December 2016	27,979.854	45.550	27,934.304	16,958.92	
January 2017	29,317.593	40.788	29,276.805	17,773.95	
February 2017	32,886.084	55.927	32,830.157	19,931.19	
March 2017	24,006.730	43.844	23,962.886	14,547.87	
April 2017	11,494.850	114.132	11,380.718	6,909.23	
May 2017	20,697.695	70.224	20,627.471	12,522.94	
June 2017	9,937.035	127.823	9,809.212	5,955.17	
July 2017	33,076.961	41.599	33,035.362	20,055.77	
August 2017	40,777.823	10.610	40,767.213	24,749.78	
September 2017	18,387.619	78.386	18,309.233	11,115.54	
October 2017	16,428.330	81.755	16,346.575	9,924.01	
November 2017	16,287.872	85.473	16,202.399	9,836.48	
December 2017	41,288.244	15.034	41,273.210	25,056.97	
January 2018	27,838.879	61.347	27,777.532	16,863.74	
February 2018	30,048.283	39.599	30,008.684	18,218.27	
March 2018	30,750.402	36.133	30,714.269	18,646.63	
April 2018	15,962.119	141.082	15,821.037	9,604.95	
May 2018	18,908.059	88.177	18,819.882	11,425.55	
					Rounded Value
Sum (01/06/2015 – 31/12/2015)	191,016.638	366.886	190,649.752	115,743.46	115,743
Sum (01/01/2016 – 31/12/2016)	325,799.259	583.383	325,215.876	197,438.56	197,438
Sum (01/01/2017 – 31/12/2017)	294,586.836	765.595	293,821.241	178,378.88	178,378
Sum (01/01/2018 – 31/05/2018)	123,507.742	366.338	123,141,404	74,759,15	74,759
Sum 1th Monitoring Period (01/06/2015 – 31/05/2018)	934,910.475	2,082.202	932,828.273	566,320.04	566,318

E.2. Calculation of project emissions or actual net removals

As the proposed project activity is a new grid-connected wind power plant. For this reason, PE_y is considered as "0" in line with ACM0002 Version 12.1.0. Therefore;

$$PE_y = 0 \text{ t CO}_2$$

E.3. Calculation of leakage emissions

The energy generating equipment is not transferred from or to another activity. No leakage is to be accounted by the Project. This is in line with the registered PDD and applicable methodology ACM0002 Version 12.1.0 Therefore;

$$LE_y = 0 \text{ t CO}_2$$

$$\text{Then: } ER_y = BE_y$$

E.4. Calculation of emission reductions or net anthropogenic removals

It can be followed that the emission reductions of the project activity is equal to the baseline emissions.

	Baseline GHG emissions or baseline net GHG removals (t CO ₂)	Project GHG emissions or actual net GHG removals (t CO ₂)	Leakage GHG emissions (t CO ₂)	GHG emission reductions or net anthropogenic GHG removals (t CO ₂)		
				Before 01/01/2013	From 01/01/2013	Total amount
Total	566,318	0	0	0	566,318	566,318

E.5. Comparison of emission reductions or net anthropogenic removals achieved with estimates in the registered PDD

Amount achieved during this monitoring period (t CO ₂)	Amount estimated ex ante (t CO ₂)
566,318	621,564

E.6. Remarks on increase in achieved emission reductions

According to the registered PDD the annual generation figure of the project is estimated as 1,023,825 MWh and annual emission reduction is estimated as 621,564 tCO₂e and between the this monitoring period (01/06/2015-31/05/2018). The comparison shows that the actual emission reduction is approximately around 566,318 tCO₂, %8,88 lower than the expectation 621,564 tCO₂ in the registered PDD because of the low wind speed and very bad cold weather condition.

SECTION F. Open Issues from Validation

From the first verification four Forward Action Requests (FAR) were coming up:

Forward Action Request (FAR) # 1: Plantation and landscaping activities: The PP is mentioned

that the plantation for the tree cutting will be performed by the Directorate of Forestry. Therefore, a FAR is raised to monitor the parameter in the next verification.

The project area has been planted with the appropriate vegetation's and tree by the project owner. Project owner has made payment for reforestation. The plantation has started after the first verification. The related payment document has been provided to the DOE.

Forward Action Request (FAR) # 2: As per the Validation Repot, the training records given for the Nature Protection and National Parks employees could not be provided. Therefore, a FAR is raised and the parameter will be monitored during the next verification.

Health and Safety Trainings are provided to the Nature Protection and National Parks employees. Attendance record and their certificates provided to the DOE.

Forward Action Request (FAR) # 3: During on site visit, it was observed and the stakeholders were interviewed about the new roads. They indicated that the new roads of the village are more useful for driving. However, after the roads were flattened with the excavation soil, because of the new level of the roads, there are two ditches in right and left of the road for water flowing and they could not pass to the opposite site and they could not reach the slip roads that they use for moving into the forest. The PP clarified that the soil stacks and corrections will be made to reduce the elevation difference. PP will rent a heavy construction equipment/truck and works will be started in this summer. Therefore, the parameter will be monitored during the next verification.

The company has been improved the conditions of roads to mitigate the effect of rough road condition after the construction of the project. After the improving of the roads the stakeholders can pass to the opposite site and they can reach the slip roads that they use for moving into the forest. The project owner has made their committed that the soil stacks and corrections has been made to reduce the elevation difference.

Forward Action Request (FAR) # 4: As per the Validation Report , Compliance with items 11 and 13 of the protocol signed between Galata Wind Enerji Ltd. Şti. And Bursa Provisional Directorate of Environment and Forestry, Nature Protection and National Parks Administration, signed by the PP on 08/02/2010, will be monitored through the applicable records. (e.g. for item 11: records of training, research, symposiums, relevant records of payments, receipts for such participation, etc.; e.g. for item 13: social security records, official evaluation correspondence of the Nature Protection and National Parks Administration). However, during this monitoring period the meeting was not organized in collaboration with the Bursa Provisional Directorate of Environment and Forestry. Therefore, this parameter will be monitored during the next verification period.

The informative meetings organized in collaboration with the Bursa Provisional Directorate of Environment and Forestry. The relevant photo of the meeting have been provided to the DOE.

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
06.0	7 June 2017	Revision to: • Ensure consistency with version 01.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN); • Make editorial improvements.
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement.
04.0	25 June 2014	Revisions to: • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>; • Editorial improvement.
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB 70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01.0	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report		