



TEMPLATE

MONITORING REPORT

PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

RELATED SUPPORT – **TEMPLATE GUIDE Monitoring Report v. 1.1**

This document contains the following Sections

Key Project Information

SECTION A - Description of project

SECTION B - Implementation of project

Q - Description of monitoring system applied by the project

SECTION D - Data and parameters

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KEY PROJECT INFORMATION

Key Project Information

GS ID (s) of Project (s)	GS905
Title of the project (s) covered by monitoring report	Sah Wind Power Plant
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	v0.5.1 06/11/2018
Version number of the monitoring report	0.5
Completion date of the monitoring report	29/10/2021
Date of project design certification	15/11/2018
Date of Last Annual Report	n.a.
Monitoring period number	03 for first crediting period 01 for second crediting period
Duration of this monitoring period	01/06/2018 to 28/02/2021
Project Representative	Cagla Balci Eris-Rüzgar Danışmanlık
Host Country	Turkey
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Methodology (ies) applied and version number	ACM0002 Version 18.0
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A

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Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units/ Products
SDG 7: Affordable and Clean Energy	T: 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix I: 7.2.1 "Renewable energy share in the total final energy consumption"	01/06/2018 to 15/11/2018 : 151,596.915 16/11/2018 to 28/02/2021: 780,254.162 Totally: 931,851.077	MWh per annum
SDG 8 : Decent Work and Economic Growth	T: 8.5 By 2030 achieve full and productive employment and decent work for all 8.5.2 Unemployment rate, by sex, age and persons with disabilities	The project provides 21 employees	People
SDG 8 : Decent Work and Economic Growth	T: 8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious 8.8.2 Increase in national compliance of labour rights (freedom of association and collective bargaining) based on International Labour Organization (ILO) textual sources and national legislation, by sex and migrant status	21 people trained on health and safety issues during this monitoring period	All
SDG 13: Climate Action	13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning 13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual	01/06/2018 to 15/11/2018 : 92,034 16/11/2018 to 28/02/2021: 437,331 Totally : 529,365	tCO ₂ e per annum

	capacity-building to implement adaptation, mitigation and technology transfer, and development actions" and following		
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SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

The main purpose of this project activity is to generate electricity from a Wind Power Plant and supply of power generated to the Turkey national grid. Galata Wind Enerji A.S. has installed Sah WPP with 105 MWm/105 MWe installed capacity in Bandirma district of Balikesir and Karacabey district of Bursa, Turkey. Sah Wind Power Plant has 35 turbines of which 24 turbines are in Balikesir province, and 11 turbines are in Bursa province, each having an output of 3.0 MW.

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A.2. Project expects to generate and supply a net amount of 341,275 MWh of electricity per year to the grid, utilizing a renewable source, and expects to reduce 207,188 tCO₂-eq annually by replacing non-renewable generation sources in the national grid for the 1st crediting period.

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A.3. Project expects to generate and supply a net amount of 306,566 MWh of electricity per year to the grid, utilizing a renewable source, and expects to reduce 171,828 tCO₂-eq annually by replacing non-renewable generation sources in the national grid for the 2nd crediting period.

The connection of the project to the National Electricity System is done via 35 km transmission line to the 154 kV Gobel Transformer Station. The project operational lifetime is 49 years.

The project replaces anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 171,828 tCO₂e per annum for the second crediting period, thereon displacing 306,566 MWh/year amount of electricity from the generation- mix of power plants connected to the electricity grid, which is mainly dominated by thermal/fossil fuel based power plant. The project leads to reduction in GHGs and achieve sustainable development of the host country.

In the beginning phase, 31 turbines were fully commissioned. After the completion of the construction works and commissioning, the project was taken over by Dogan Enerji Yatirimları San. ve Tic. A.S. in June 2012. In the further stages of the project, the company decided to increase the total installed capacity of the project to 105 MWm/105 MWe with additional 4 Vestas V90 / 3000 kWe type wind turbines. The total estimation annual

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electricity generation of the project is calculated as 341,275 MWh/yr with 35 turbines-105 MWe according to Wind Assessment Report.

But in the years between 2011 and 2017, the average annual net electricity export to the grid was only approximately 293,479 MWh/yr. And the same WPP had produced annual average of 306,566 MWh between years 2015 and 2017 with 35 turbines. So the PP uses the amount of 306,566 MWh as annual average for the second crediting period. (15/11/2018-14/11/2025). And expected total of reduction of 1,202,795 tCO₂-eq over the 7-year crediting period.

Due to its significant contribution to climate change mitigation and sustainable development in the region, this project is expected to fulfil the requirements of the Gold Standard for Global Goals rigorously.

The project helps Turkey to stimulate and commercialize the use of grid connected renewable energy technologies and markets. It demonstrates the viability of wind power plants which support improved energy security, improved air quality, alternative sustainable energy futures, improved local livelihoods and sustainable renewable energy industry development.

This electricity amount has contributed to the following goals:

- Reducing greenhouse gas emissions in Turkey compared to business-as-usual scenario,
- Helping to stimulate the growth of wind power industry in Turkey,
- Creating local employment during the operation phase of the plant,
- Helping to reduce Turkey's increasing energy deficit and
- Diversifying the electricity generation mix and reducing import dependency.

A.4. The project activity milestones are:

Date	Milestone
License obtained from EMRA	10/04/2008
Start Date of the Construction	06/08/2010
Commissioning date of the first phase of the plant (21 x 3 = 63 MW)	19/05/2011
Commissioning of the second phase (9 x 3 = 27 MW)	03/06/2011
Commissioning of the last phase (1 x 3 = 3 MW)	29/07/2011
Start of first crediting period and first monitoring period	15/11/2011
Additional Protocol signed with VESTAS for the capacity addition	10/02/2012
License Amendment (Increase in number of turbines as 35 turbines)	04/04/2012
License Amendment (Change of corporate name to Galata Wind Enerji	11/06/2012

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A.Ş.)	
Galata Wind Enerji A.Ş. is taken over by Doğan Enerji	20/06/2012
Commissioning Date of the last additional 4 turbines phase (4 x 3= 12 MW)	24/05/2013
Gold Standards registration of Project Activity	06/11/2013
First crediting period	15/11/2011-14/11/2018
Second crediting period	15/11/2018-14/11/2025

A.5. Location of project

The project is located in Marmara Region in Bandırma 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 ¹

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

¹ Source: Generation License

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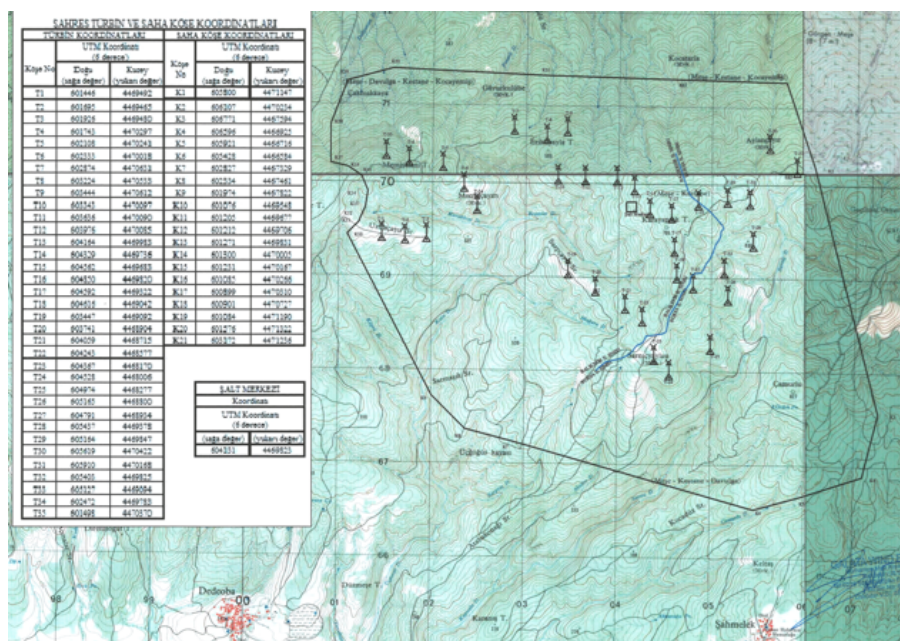
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T14	604329	4469736
T15	604562	4469683
T16	604850	4469820
T17	604592	4469322
T18	604616	4469042
T19	603447	4469092
T20	603741	4468904
T21	604059	4468715
T22	604243	4468577
T23	604367	4468170
T24	604528	4468006
T25	604974	4468277
T26	605165	4468800
T27	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 turbine



A.6. Reference of applied methodology

The project applies CDM-EB approved ACM0002: Grid-connected electricity generation from renewable sources - Version 18.0.²

Sectoral Scope: 01 Energy industries (renewable - / non-renewable sources)

The methodology refers to:

- Tool to calculate the emission factor for an electricity system, Version 06.0.0³

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² <https://cdm.unfccc.int/filestorage/2/L/9/2L9KQXT6HGREJW084VD0IPYB7U5SMA/Grid-connected%20electricity%20generation%20from%20renewable%20sources.pdf?t=T1h8cXM4YzQxYDcBdT50rhUgmd1cxJ3b>

³ <https://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v6.pdf>

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- Combined tool to identify the baseline scenario and demonstrate additionality, Version 06.0.0⁴
- Tool for demonstration and assessment of additionality, Version 07.0.0⁵
- Tool to determine the remaining lifetime of equipment, Version 01⁶

A.7. Crediting period of project

Type of crediting period: Renewable

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

Date of the second crediting period: 15/11/2018 -14/11/2025

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

This is second crediting period.

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SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

The project has 35 wind turbines with a unit capacity of 3,000 kWm /3,000 kWe. With a total installed capacity 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 01/06/2018– 28/02/2021.

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 equipment's were provided from Vestas which is one of the largest suppliers of wind turbines in the world.

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⁴ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-02-v6.0.pdf>

⁵ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

⁶ https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-10-v1.pdf/history_view

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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.

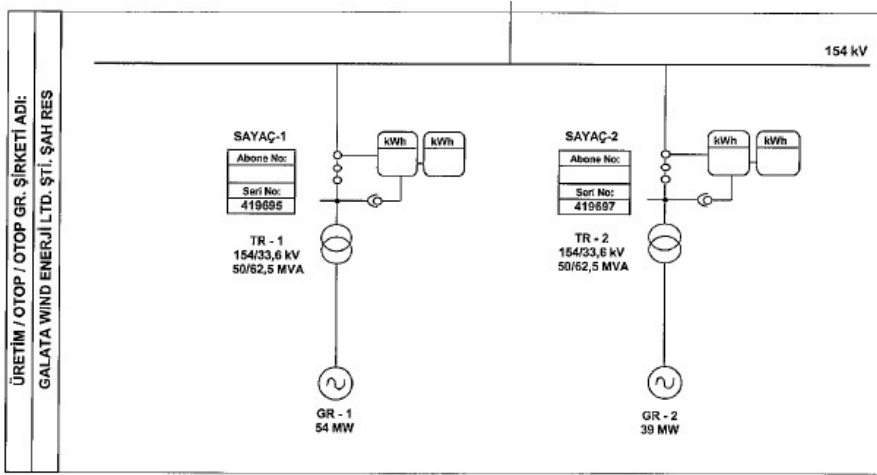
The wind turbines of the plant are to be supplied from Vestas which is the world's leading company in wind power technologies. The technology used in the plant includes first wind turbines and its auxiliary equipment's with extensive automatization.

Table 2 Technical specifications of V90 turbines

Parameter	Value
Rated Power	3,000 kW
Rotor Diameter	90 m
Gearbox Type	2 Helical stages ,1 Planetary stage
Number of blades	3
Swept Area	6.362 m2
Hub Height	80 m
Cut out wind speed	25 m/s

The scheme below shows the connection points of Sah Wind Power Plant with the national grid. The Sah Wind Power Plant has to be connected to the national grid via 154 kV TM.

Figure 3 Line Diagram of Sah Wind Power Plant



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B.1.1. Forward Action Requests

There is not FAR from past process.

B.2. B.2 Post-Design Certification changes

B.3. B.2.1.Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

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 start date of crediting period

There are no changes to start date of crediting period. The crediting period start date is defined as 15/11/2011.

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

There are no permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline.

B.2.5 Changes to project design of approved project

There are no changes to project design of approved project.

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

According to the Turkish Law and Regulations, the methods of monitoring the net electricity fed to the grid and quality control and assures are explained below:

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 spare meter. The role of the second meter is to check if the main meter measures the generated electricity accurately. 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 Communique 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 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

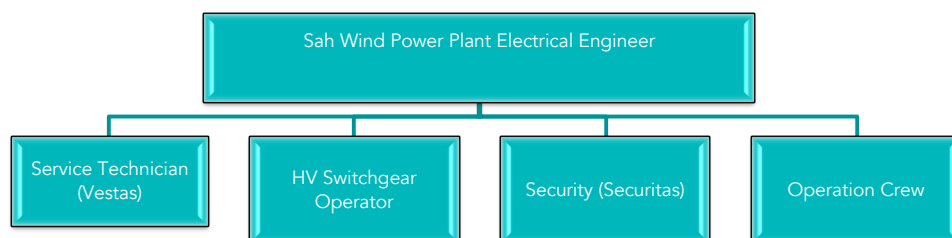
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according to Communiqué on the counter to be used in the Electricity Market by Energy Market Regulatory Authority on 22/04/2011.

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 Participant has been responsible for storage of data received from the measuring devices.

The main and spare meter readings are recorded monthly and cross-checked whether calibration is required. The capacity of the transmission line connected is 154 kVA, the accuracy class for power meters have been defined in the Communiqué for Power Meters as 0.5S class. The calibration is implemented in accordance with the related standard procedures. The periodical maintenance is under the responsibility of TEİAŞ and has been fixed as once in 10 years. 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 Project aims to create employment opportunities in the project region in a sustainable way. The Project proponent prefers to prioritize personnel from the project region, which is defined as a Gold Standard indicator to be verified for each monitoring period. It is between 21 and 25 employees permanent during the operation of the plant. Roles and responsibilities have been summarized in the following chart:



SECTION D. DATA AND PARAMETERS

D.1. Data and parameters fixed ex ante or at renewal of crediting period

D.2.

Relevant SDG Indicator	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions" and following target
Data/parameter	EGgross

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Unit	MWh
Description	Gross electricity production by fossil fuel power sources (2014-2016)
Source of data	TEIAS (Turkish Electricity Transmission Company) www.teias.gov.tr . The distribution of gross electricity generation by primary energy resources and the electricity utilities in Turkey (2014, 2015, 2016).
Value(s) applied	Year 2014: 198,984,000 MWh Year 2015: 177,608,000 MWh Year 2016: 183,426,500 MWh
Choice of data or Measurement methods and procedures	TEIAS, the Turkish Electricity Transmission Company is the official source for the related data, thus providing the most up-to-date and accurate information available.
Purpose of data	Calculation of baseline emissions-to demonstrate contribution to SDG13- 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
Additional comment	-

Relevant SDG Indicator	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions" and following target				
Data/parameter	FCi,y				
Unit	tonnes (m3 for gaseous fuels)				
Description	Amount of fossil fuel type i consumed in the project electricity system by generation sources in year y (2014-2016)				
Source of data	TEIAS (Turkish Electricity Transmission Company) www.teias.gov.tr . Fuels consumed in thermal power plants in Turkey by the electricity utilities (2014-2016)				
Value(s) applied		Units	2014	2015	2016
	Natural Gas	1000m3	25,426,014	20,914,868	18,954,093
	Lignite	tons	57,696,139	49,940,131	60,213,772
	Coal	tons	14,501,934	16,629,492	19,642,410
	Fuel Oil	tons	754,283	516,912	526,674
	Diesel Oil	tons	119,988	238,388	306,393
	Lpg	tons	0	0	0
	Naphtha	tons	0	0	0
Choice of data or Measurement methods and procedures	TEIAS, the Turkish Electricity Transmission Company is the official source for the related data, thus providing the most up-to-date and accurate information available.				

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Purpose of data	Calculation of baseline emissions-to demonstrate contribution to SDG13- 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
Additional comment	

Relevant SDG Indicator	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions” and following target			
Data/parameter	NCVi,y			
Unit	TJ/kt (106 m3 for gaseous fuels)			
Description	Net calorific value (energy content) of fossil fuel type i in year y			
Source of data	Calculated based on TEIAS (Turkish Electricity Transmission Company) www.teias.gov.tr Heating values of fuels consumed in thermal plants in Turkey by the electricity utilities (2014-2016)			
Value(s) applied		NCVi(TJ/kt)		
		2014	2015	2016
	Natural Gas	37.49	37.837	38.011
	Lignite	7.11	7.161	7.196
	Hard Coal + Imported Coal	23.93	24.075	24.074
	Fuel Oil	41.32	44.216	42.418
	Diesel Oil	43.44	43.784	44.203
	Lpg	0	0.000	0.000
	Naphta	0	0.000	0.000
Choice of data or Measurement methods and procedures	TEIAS, Turkish Electricity Transmission Company is the official source for the related data, hence providing the most up-to-date and accurate information available.			
Purpose of data	Calculation of baseline emissions-to demonstrate contribution to SDG13- 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning			
Additional comment	-			

Relevant SDG Indicator	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions" and following target
Data/parameter	EFCO _{2,i,y}
Unit	tCO ₂ /TJ

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Description	CO ₂ emission factor of fossil fuel type i used in power unit m in year y																	
Source of data	IPCC default values at the lower limit of the uncertainty at a 95% confidence interval as provided in table 1.4 of Chapter 1 of Volume 2 (Energy) of the 2006 IPCC Guidelines for National Greenhouse Gas Inventory																	
Value(s) applied		<table><tr><td>Natural Gas</td><td>54.3</td></tr><tr><td>Lignite</td><td>90.9</td></tr><tr><td>Hard Coal + Imported Coal</td><td>89.5</td></tr><tr><td>Fuel Oil</td><td>75.5</td></tr><tr><td>Diesel Oil</td><td>72.6</td></tr><tr><td>Lpg</td><td>61.6</td></tr><tr><td>Naphta</td><td>69.3</td></tr></table>	Natural Gas	54.3	Lignite	90.9	Hard Coal + Imported Coal	89.5	Fuel Oil	75.5	Diesel Oil	72.6	Lpg	61.6	Naphta	69.3		
Natural Gas	54.3																	
Lignite	90.9																	
Hard Coal + Imported Coal	89.5																	
Fuel Oil	75.5																	
Diesel Oil	72.6																	
Lpg	61.6																	
Naphta	69.3																	
Choice of data or Measurement methods and procedures	Please see calculations of emission factor (Section B.6.1)																	
Purpose of data	Calculation of baseline emissions - to demonstrate contribution to SDG13- 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning																	
Additional comment	There is no information on the fuel specific default emission factor in Turkey, hence, IPCC values has been used as referred in the "Tool to calculate the emission factor for an electricity system"																	

Relevant Indicator	SDG	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions” and following target							
Data/parameter	ηm,y								
Unit	%								
Description	Average net energy conversion efficiency of power unit m in year y								
Source of data	“Appendix 1, Default efficiency factors for power plants” of “Tool to calculate the emission factor for an electricity system” version 06.0.0.								
Value(s) applied	<table><tr><td>Natural Gas</td><td>0.0543</td></tr><tr><td>Import Coal</td><td>0.0895</td></tr><tr><td>Lignite</td><td>0.0909</td></tr></table>			Natural Gas	0.0543	Import Coal	0.0895	Lignite	0.0909
Natural Gas	0.0543								
Import Coal	0.0895								
Lignite	0.0909								
Choice of data or Measurement methods and procedures	The average values of thermal plants in Turkey are taken from “Tool to calculate the emission factor for an electricity system” 06.0.0.								

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Purpose of data	Calculation of baseline emissions - to demonstrate contribution to SDG13- 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
Additional comment	-

D.3. Data and parameters monitored

First Crediting Period(01/06/2018-15/11/2018)

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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 01/06/2018-15/11/2018: 151,596.915 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> <tr> <th></th><th>Electricity Meter (Primary)</th><th>Electricity Meter (Spare)</th></tr> <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> </table> TR-2 Transformer <table> <tr> <th></th><th>Electricity Meter (Primary)</th><th>Electricity Meter (Spare)</th></tr> <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> </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
	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																																										

	The accuracy of meters (A1500)⁷ 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 regulation⁸, 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 ⁹
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 Communique 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

⁷ A1500 Brochure has given to the DOE.

⁸ “Measurement and Measuring Tools Inspection Regulation”, Date: 24/07/1994, Official Gazette Number: 22000

⁹ 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 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

No	SDI.3
Indicator	Water Quality and Quantity
Mitigation measure	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. 

TEMPLATE-

		
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) ¹⁰
	When	Continuously
	By who	The Municipality/Project Owner
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. Some of the pictures from the road have been provided as below

¹⁰ The related invoices have been provided to the DOE.

TEMPLATE-

		
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

TEMPLATE-

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 21 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. 21 workers are working for the operation of the plant. According to the social security contribution documents of the project, 18 employees 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 ¹¹
	When	Continuously

¹¹ SGK records of employments are provided to DOE.

TEMPLATE-

	By who	The company / Project manager
Purpose of data:		Monitoring of sustainability parameters
Additional comment:		n.a

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 ¹²
	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

No	SDI.16
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¹² The regarding bills are provided to the DOE.

TEMPLATE-

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 ¹³
	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. ¹⁴
Estimation of baseline situation of parameter		n.a.
Future target for parameter		n.a.
QA/QC procedures:		n.a.

¹³ SGK records are provided to the DOE.

¹⁴ The expense document related with National Parks of Ministry of Environment and Forestry documentary request has been provided to the DOE.

TEMPLATE-

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
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 are disposed two times and waste oil is disposed one time in this monitoring period. 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.

Second Crediting Period(16/11/2018-28/02/2021)

TEMPLATE-

Relevant SDG Indicator	7.2.1 "Renewable energy share in the total final energy consumption"
Data / Parameter	EGfacility, y
Unit	MWh/yr
Description	Quantity of net electricity supplied to the grid in year y
Source of data	EPIAS records (Meter reading records or OSF forms of main meters
Value(s) applied	Net electricity generation between 16/11/2018-31/12/2018: 41,821.581 MWh Net electricity generation between 01/01/2019- 31/12/2019: 326,175.914 MWh Net electricity generation between 01/01/2020-31/12/2020: 343,641.774 MWh Net electricity generation between 01/01/2021-28/02/2021: 68,614.893 Net electricity generation between 16/11/2018-28/02/2021: 780,254.162 MWh

Monitoring frequency	Continuous measurement and at least monthly recording.		
	Information of the meters are listed as followed:		
	TR-1 Transformer		
		Electricity Meter (Primary)	Electricity Meter (Secondary)
	Manufacturer	ELSTER	ELSTER
	Model	A1500	A1500
	Serial number	419695	419696
	Date of installation	20/05/2011	20/05/2011
	Date of removal	17/09/2020	17/09/2020
	TR-2 Transformer		
		Electricity Meter (Primary)	Electricity Meter (Spare)
	Manufacturer	ELSTER	ELSTER
	Model	A1500	A1500
	Serial number	419697	419698
	Date of installation	20/05/2011	20/05/2011
	Date of removal	17/09/2020	17/09/2020
	The accuracy of meters is given as 0.5s class. They have changed as below:		
	TR-1 Transformer		
		Electricity Meter (Primary)	Electricity Meter (Spare Meter)
	Manufacturer	EMH	EMH
	Model	LZQJ-XC	LZQJ-XC
	Serial number	9798640	9798641
	Date of initial calibration	22/06/2020	22/06/2020
	Date of installation	17/09/2020	17/09/2020
	TR-2 Transformer		
		Electricity Meter (Primary)	Electricity Meter (Spare Meter)
	Manufacturer	EMH	EMH
	Model	LZQJ-XC	LZQJ-XC

TEMPLATE-

	Serial number	9798642	9798643
	Date of initial calibration	22/06/2020	22/06/2020
	Date of installation	17/09/2020	17/09/2020
QA/QC procedures	- Measurements are undertaken using energy meters. - 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. Maintenance and calibration of TEİAŞ meters are carried out according to the System Usage Agreement. The periodical calibration or maintenance is under the responsibility of TEİAŞ and has been fixed as once in 10 years. 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. EPIAS record is crosschecked with the data measured protocol by meters (OSOS-OSF forms) - The meters are tested on 16/09/2020.		
Purpose of data	Calculation of baseline emissions- demonstrate contribution to SDG7'-7.2 By 2030, increase substantially the share of renewable energy in the global energy mix"		
Additional comment	-		

Relevant SDG Indicator	8.5.2 Unemployment rate, by sex, age and persons with disabilities"
Data / Parameter	Number of employments
Unit	Number
Description	Number of people employed directly due to the project activity
Source of data	SGK Records
Value(s) applied	21 employees
Measurement methods and procedures	The total number of persons working in the plant would be calculated based on the SGK Records
Monitoring frequency	Once for each monitoring period

TEMPLATE-

QA/QC procedures	Social insurance registries of employees are provided during each monitoring period. After first verification, only changes in employees will be reported.
Purpose of data	8.5 'By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value'
Additional comment	-

Relevant SDG Indicator	8.8.2 Increase in national compliance of labour rights (freedom of association and collective bargaining) based on International Labour Organization (ILO) textual sources and national legislation, by sex and migrant status.
Data / Parameter	Health and Safety Training Records
Unit	Number of people per monitoring period
Description	Number of people have trained on health and safety issues during per monitoring period.
Source of data	Training Records or Certificates
Value(s) applied	21 employees have trained on health and safety issues during this monitoring period. One employee has trained in August 2019 and will be valid till August 2021.
Measurement methods and procedures	The total number of Health and Safety training based on Training Records or Certificates
Monitoring frequency	Once for period each monitoring
QA/QC procedures	Training Record and Certificates have been provided to the VVB
Purpose of data	Monitoring the health and safety trainings of employees to demonstrate contribution to SDG8-8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment
Additional comment	n.a

TEMPLATE-

The training records details as below:

Number of Employees	Position	Training given by	Subject	Training Date	Record	Content
8 people	Electrician Technician, WPP Operations Manager and Financial Administrative Affairs	Öykü Grup	General Occupational Health and Safety	19-25/04/2018	Attendance Protocol	Basic Training about General Occupational Health and Safety
8 people	Electrician Technician, WPP Operations Manager and Financial Administrative Affairs	Öykü OSGB	General Occupational Health and Safety	19-26/04/2019	Attendance Protocol	Basic Training about General Occupational Health and Safety
8 people	Electrician Technician, WPP Operations Manager and Financial Administrative Affairs	Öykü OSGB	General Occupational Health and Safety	06-07/10/2020	Attendance Protocol	Basic Training about General Occupational Health and Safety
5 people	Security	Aksoy	General Occupational Health and Safety	10-27/04/2018	Attendance Protocol	Basic Training about General Occupational Health and Safety

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WPP Operations Manager

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5 people	Security	Ekoglobal iSG	General Occupational Health and Safety	01-02/04/2019	Attendance Protocol	Basic Training about General Occupational Health and Safety
5 people	Security	Ekoglobal iSG	General Occupational Health and Safety	12/03/2020	Attendance Protocol	Basic Training about General Occupational Health and Safety
8 people	Electrician Technician	Vestas Arti	General Occupational Health and Safety	19.02.2018	Attendance Protocol	Basic Training about General Occupational Health and Safety
8 people	Electrician Technician	Vestas GWO	General Occupational Health and Safety	12.03.2019	Attendance Protocol	Basic Training about General Occupational Health and Safety
8 people	Electrician Technician	Vestas	General Occupational Health and Safety	17.12.2020	Attendance Protocol	Basic Training about General Occupational Health and Safety

Relevant SDG Indicator	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement adaptation, mitigation and technology transfer, and development actions” and following
Data / Parameter	ERy
Unit	tCO ₂ /y
Description	Emission Reductions in year y (t CO ₂ /yr) As per ACM0002 V 18.0, the baseline emissions (emission reductions) are calculated as the net electricity generated by the project activity, multiplied with the baseline emission factor for the project grid.

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Source of data	Measured and Calculated. (The emission reduction value the emission factor of the grid to which the project exports electricity (0.5605 tCO ₂ /MWh) and net electricity generated)
Value(s) applied	2018: 23,441 tCO ₂ 2019: 182,821 tCO ₂ 2020: 192,611 tCO ₂ 2021: 38,458 tCO ₂ Total: 437,331 tCO ₂
Measurement methods and procedures	Please see B.6.2-B.6.4 and B.7.3 for more detailed description of the monitoring plan.
Monitoring frequency	Once for each monitoring period
QA/QC procedures	Please see B.7.3. for more detailed description of the monitoring plan.
Purpose of data	Calculation of baseline emissions (Baseline emissions calculated as explained in section B.6.2-B.6.4) to demonstrate contribution to SDG13-13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
Additional comment	-

There is no any complaint about noise level during this monitoring period.

D.4. Comparison of monitored parameters with last monitoring period

Data/Parameter	Value obtained in this monitoring period (3rd 01/06/2018-28/02/2021)	Value obtained last monitoring period (2nd 01/06/2015-31/05/2018)
SDG7/Quantity of net electricity supplied to the grid in year y	01/06/2018 to 15/11/2018: 151,596.195	932,828.273 MWh

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	16/11/2018 to 28/02/2021: 780,254.162 Totally: 931,851.077 MWh	
SDG8 Number of employments	21 employees	24 employees
SDG8 / Health and Safety Training Records	1 training per year	1 training per year
SDG13 /Emission Reductions in year y	529,365 t CO2	566,318 t CO2

D.5. Implementation of sampling plan

Not Applicable

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SECTION E. CALCULATION OF SDG IMPACTS

E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

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SDG 7: Affordable and Clean Energy: The contribution to SDG 7 is defined as the produced electricity energy produced by the Wind Power Plant. As there is no electricity energy produced in the baseline, the baseline value is 0.

SDG 8: Decent Work and Economic Growth: The project leads to employment opportunities which would not have been possible in the baseline scenario. So, the baseline value for 8.5.2 (Unemployment rate, by sex, age and persons with disabilities) is 0. The other monitored parameter is Health and Safety Training for the indicator 8.8.2. Since there would have been no training offered if the project did not exist, this baseline is also 0.

SDG13: Climate Action:

Baseline emissions are calculated using following equation:

$$BE_y = EG_y * EF_y$$

Where,

BE_y = Baseline emissions in year y (tCO₂/yr)

EG_y = The net electricity exported to the grid system during the year y (931,851.077 MWh)

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EF_y = The emission factor of the grid to which the project exports electricity (0.5605 tCO₂/MWh)

Hence,

01/06/2018 to 15/11/2018 :

$$BE_y = 151,596.195 \text{ MWh} / y * 0.6071 \text{ tCO}_2/\text{MWh}$$

$$BE_y = 92,034 \text{ tCO}_2$$

16/11/2018 to 28/02/2021:

$$BE_y = 780,254.162 \text{ MWh} / y * 0.5605 \text{ tCO}_2/\text{MWh}$$

$$BE_y = 437,331 \text{ tCO}_2$$

Totally:

$$BE_y = 529,365 \text{ tCO}_2$$

E.2. Calculation of project value or estimation of project situation of each SDG Impact

SDG 7 (Affordable and Clean Energy)

EG_y = the net electricity exported to the grid system during the year y

The amount of electricity produced does not need any calculation, it is directly received from meter readings.

C (Net Electricity supplied to the grid [MWh] EG_y) = A (Electricity supplied to the grid [MWh]) – B (Electricity consumption from the grid [MWh])

The Sah Wind Power Plant net electricity supplied to the grid 931,851.077 MWh during this monitoring period.

SDG 8 (Decent Work and Economic Growth)

“Number of employment generation” and does not need any calculation, it is directly received from SGK records. “Health and Safety Training Records” does not need any calculation, it is directly taken from training records. 21 people employed and all employed has taken Health and Safety Training during this monitoring period.

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E.3.

SDG 13 (Climate Action)

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. (Since PE_y and LE_y are assumed to be 0, emission reductions are equal to baseline emissions) The general equation is as follows:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y = Emission reductions in year y (tCO₂e/yr)

BE_y = Baseline emissions in year y (tCO₂/yr)

PE_y = Project emissions in year y (tCO₂e/yr)

LE_y = Leakage emissions in year y (t CO₂/y

Project Emissions

As the proposed project activity is a new grid-connected solar power plant. For this reason, PE_y is considered as "0" in line with ACM0002 Version 18.1.

$$PE_y = 0$$

Leakage

Leakage emission (LE_y) is considered as "0" as suggested in ACM0002 Version 18.1

Baseline Emissions

The baseline emissions are calculated as follows:

$$BE_y = EGBL_y * EFCO2_{grid,y}$$

Where:

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BE_y = Baseline emissions in year y (tCO₂/yr)

EGBL_y = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

EFCO₂grid_y = CO₂ emission factor of the grid in year y (t CO₂/MWh)

The Sah Wind Power Plant does not produce any emission during this monitoring period.

E.4. Calculation of leakage

Leakage emission (LE_y) is considered as "0" as suggested in ACM0002 Version 18.1

E.5. Calculation of net benefits or direct calculation for each SDG Impact

SDG 7 (Affordable and Clean Energy)

Net Benefit= Project value- Baseline value

931,851.077 MWh = 931,851.077 MWh – 0

Vintage	(A) Electricity supplied to the grid [MWh]	(B) Electricity consumption from the grid [MWh]	(C) = (A) - (B) EG Net electricity supplied to the grid [MWh]
2018 (01/06/2018- 31/12/2018)	193,753.335	334.839	193,418.496
2019 (01/01/2019- 31/12/2019)	326,791.101	615.187	326,175.914
2020 (01/01/2020- 31/12/2020)	344,244.396	602.622	343,641.774
2021 (01/01/2021- 28/02/2021)	68,675.380	60.487	68,614.893

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TOTAL (01/06/2018 - 28/02/2021)	933,464.212	1,613.135	931,851.077
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SDG 8 (Decent Work and Economic Growth)

21 people have employed, and all employment has attended to the trainings in this monitoring period.

SDG 13 (Climate Action)

$$BE_y = EGBL_y * EFCO2_{grid,y}$$

Baseline emissions in year y (tCO₂/yr) = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh) * CO₂ emission factor of the grid in year y (t CO₂/MWh)

Vintage	EG Net electricity supplied to the grid [MWh]	EF [tCO₂/MWh]	Baseline emission: BE = EG * EF [t CO₂-eq]
2018 (01/06/2018- 31/12/2018)	01/06/2018 to 15/11/2018: 151,596.195	0.6071	92,034
	16/11/2018 to 31/12/2018: 41,821.581	0.5605	23,441
	Totally: 193,418.496		Totally: 115,475
2019 (01/01/2019- 31/12/2019)	326,175.914	0.5605	182,821

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2020 (01/01/2020-31/12/2020)	343,641.774	0.5605	192,611
2021 (01/01/2021-28/02/2021)	68,614.893	0.5605	38,458
TOTAL (01/06/2018 - 28/02/2021)	931,851.077	0.6071 0.5605	529,365

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
7	Affordable and Clean Energy	0	931,851.077 MWh	931,851.077 MWh
8	Decent Work and Economic Growth	0	21 people employed	21 people employed
8	Decent Work and Economic Growth	0	All employed has taken Health and Safety Training	All employed has taken Health and Safety Training
13	Climate Action	529,365 tCO ₂	0	529,365 tCO ₂

E.6. Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values achieved during this monitoring period
7	859,242.126 MWh	931,851.077 MWh
8	Between 20 and 25 people employed	21 people employed
8	All employed will be trained during the monitoring period	All employed has taken Health and Safety Training
13	488,920 tCO ₂ /MWh	529,365 tCO ₂ /MWh

E.6.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

The expected annual electricity generation value is 157,080 MWh and emission reduction is 95,363 tCO₂ according to registered PDD for 1st crediting period. And PP has monitored 168 days (between 01/06/2018 and 15/11/2018) so PP has calculated 92,034 tCO₂ emission reduction and 151,596 MWh electricity generation of 1st crediting period for this monitoring period.

The expected annual electricity generation value is 702,162.126 MWh and emission reduction is 393,557 tCO₂ according to registered PDD for 2nd crediting period. And PP has monitored 836 days (between 16/11/2018 and 28/02/2021) so PP has calculated 437,331 tCO₂ emission reduction and 780,254 MWh electricity generation of 2nd crediting period for this monitoring period.

E.7. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

The monitoring period covers the approximately two years and eight-month operation.

The comparison shows that the actual emission reduction is 92,034 tCO₂ a lower (approximately 3.49%) than the expectation 95,363 tCO₂ in the registered PDD. And the comparison shows that the actual net electricity generation is 151,596 MWh a lower (approximately 3.49%) than the expectation generation 157,080 MWh in the registered PDD of 1st crediting period. They are close to expectation values because of the wind speed conditions. It is expected that estimated values will be achieved in the coming monitoring periods.

The comparison shows that the actual emission reduction is 437,331 tCO₂ a higher (approximately 11.12%) than the expectation 393,557 tCO₂ in the registered PDD. And the comparison shows that the actual net electricity generation is 780,254.162 MWh a higher (approximately 11.12%) than the expectation generation 702,162.126 MWh in the registered PDD of 2nd crediting period. They are close to expectation values because of the wind speed conditions.

The actual average generation for 2019 and 2020 (334,908,844) and also emission reduction value may be more than estimated figure, but while evaluating the actual electricity generation, it should be taken into consideration that it is reasonable as there is a value between the wind assessment report (341,275,000) and the generation license (325,500,000). Besides all this, it seems that the project is still not profitable when evaluated in terms of IRR. It can be seen that Equity IRR reaches to 15.43% even if electricity production value increases 10% according to registered PDD. So, the equity IRR is still lower than the benchmark which is given in the PDD as 19.97% when electricity production becomes 11.2% higher.

Furthermore, in the years between 2011 and 2017, the average annual net electricity export to the grid was only approximately 293,479 MWh/yr. And the same WPP had produced annual average of 306,566 MWh between years 2015 and 2017 with 35 turbines. So the PP uses the amount of 306,566 MWh as annual average for the second crediting period. (15/11/2018-14/11/2025).

SECTION F. SAFEGUARDS REPORTING

There is no changes or improvements to proposed mitigation measures. The PP has assessment questions answered “potentially” only on “Principle 3-Community Health, Safety and Working Conditions” and related information has given under SDG8 Decent Work and Economic Growth.

SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.

This is the first monitoring period of the second crediting period and there is no input received via the Continuous Input and Grievance Mechanism during the approximately 8 years and an eight month. The PP has meet with the stakeholders and talk with them and there is no negative feedback or comment on the grievance mechanism notebook. Furthermore, the stakeholders reach the PP whenever they want to talk related with the project or request about everything.

G.2. Report on any stakeholder mitigations that were agreed to be monitored.

They were agreed no SDG monitoring parameter to be monitored when the PP asked the stakeholder during the 2nd crediting renewal period which has approved on 15/11/2018 by GS.

G.3. Provide details of any legal contest that has arisen with the project during the monitoring period

G.4. No any legal contest that has arisen with the project during the monitoring period.

Revision History

Version	Date	Remarks
1.1	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Section for POA monitoring Forward action request section Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on safeguard reporting Clarity on design changes Leakage section added for VER/CER projects Addition of Comparison of monitored parameters with last monitoring period Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.0	10 July 2017	Initial adoption

TEMPLATE-

8 people	<u>Electrician</u> <u>Technician.</u> <u>WPP</u> <u>Operations</u> <u>Manager and</u> <u>Financial</u> <u>Administrative</u> <u>Affairs</u>	Öykü OSGB	General Occupational Health and Safety	19-26/04/2019	Attendance Protocol	Basic Training about General Occupational Health and Safety
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