

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

SECTION C - Description of monitoring system applied by the project

SECTION D - Data and parameters

SECTION E - Calculation of SDG Impacts

SECTION F - Safeguards Reporting

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KEY PROJECT INFORMATION

Key Project Information

GS ID (s) of Project (s)	GS3253
Title of the project (s) covered by monitoring report	Soma III Wind Farm
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	15
Version number of the monitoring report	~~76~~
Completion date of the monitoring report	0 ~~72~~ / ~~0419~~ /202 ~~54~~
Date of project design certification	Design Certification Date:28/09/2015 Design Change Approval Date:30/03/2020
Date of Last Annual Report	26/12/2022
Monitoring period number	4
Duration of this monitoring period	01/07/2021-30/06/2023
Project Representative	Project owner: Soma Enerji Elektrik Üretim A.Ş. Sekans 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 "Grid-connected electricity generation from renewable sources", version 19.0&20.0
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A

Table 1 - Sustainable Development Contributions Achieved**CP1**

<u>Sustainable Development Goals Targeted</u>	<u>SDG Impact</u>	<u>Amount Achieved</u>	<u>Units/ Products</u>
<u>SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all</u>	<u>MWh of renewable energy generated</u>	<u>232,716.30</u>	<u>MWh</u>
<u>SDG 8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all Decent Work and Economic Growth</u>	<u>Number of employments</u>	<u>57</u>	<u>Employees</u>
<u>SDG 13 Take urgent action to combat climate change and its impacts</u>	<u>Emission reductions</u>	<u>130,931 ¹</u>	<u>VERs</u>

CP 2

<u>Sustainable Development Goals Targeted</u>	<u>SDG Impact</u>	<u>Amount Achieved</u>	<u>Units/ Products</u>
<u>SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all</u>	<u>MWh of renewable energy generated</u>	<u>750,816.43</u>	<u>MWh</u>
<u>SDG 8 Promote sustained, inclusive and sustainable</u>	<u>Number of employments</u>	<u>57</u>	<u>Employees</u>

¹ The emission reductions have been capped to the upper bound of the sensitivity analysis range for the monitoring period as per Rule Clarification -ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

economic growth, full and productive employment and decent work for all Decent Work and Economic Growth

<u>SDG 13 Take urgent action to combat climate change and its impacts</u>	<u>Emission reductions</u>	<u>459,424 ²</u>	<u>VERs</u>
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Sustainable Development Goals-Targeted	SDG-Impact	Amount-Achieved	Units/+ Products
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SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all	MWh of renewable energy generated	983,532.73	MWh
SDG 8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all Decent Work and Economic Growth	Number of employments	57	Employees
SDG 13 Take urgent action to combat climate change and its impacts	Emission reductions	590,355 ³	VERs

² The emission reductions have been capped to the upper bound of the sensitivity analysis range for the monitoring period as per Rule Clarification -ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

³ The emission reductions have been capped to the upper bound of the sensitivity analysis range for the monitoring period as per Rule Clarification -ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

Table 2 – Product Vintages

			Amount Achieved
CP	Start Dates	End Dates	VERs
CP1	01/07/2021	27/11/2021	130,931
CP2	28/11/2021	31/12/2021	33,287
CP2	01/01/2022	31/12/2022	301,333
CP2	01/01/2023	30/06/2023	124,804

		Amount Achieved
Start Dates	End Dates	VERs
01/07/2021	31/12/2021	164,219
01/01/2022	31/12/2022	301,332
01/01/2023	30/06/2023	124,803

SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

The Soma III Wind Farm which was developed by Soma Enerji Elektrik Üretim Anonim Şirketi (hereafter referred to as the “project owner”) is a grid-connected onshore wind farm project located in in Savaştepe District of Balıkesir Province and Soma District of Manisa Province in Turkey.

The Project has been implemented and operated by Soma Enerji Elektrik Üretim A.Ş. The Project aims to generate electricity from wind energy and feed it to the national electricity grid.

Total installed power generation capacity of the project is 148 MW, consisting of 62 wind turbines, with an estimated power supply to the grid of 429,828 MWh of net electricity generation per annum, via a 380 kV HV transmission line of 17 km at the Soma-B thermal plant transformer. The Project includes gearless, variable speed, variable pitch control Enercon E70 wind turbines, each with an output of 2000 kW and Enercon E-126 turbines, each with an output of 4000 kW.

The start date of the project activity is 31/03/2014.⁴ The site preparation for the first wind turbines (including the construction of roads, transmission line, etc.) is started on 27/13/2013⁵ and generation has started in 28/11/2014.

The estimated amount of GHG emission reduction is 239,514 and 278,614 tonnes CO₂e per year in the registered PDD since the MP includes the periods of two CPs. During its operation during this monitoring period, the actualized net electricity generation is 983,532.73MWh. The actual emission reduction has been calculated as 590,355 tonnes CO₂ for this monitoring period. The actual employment number is 57 for this monitoring period.

The project has produced positive environmental benefits as displacing the electricity generated by fossil fuel fired power plants by utilizing the renewable resources to avoid environmental pollution and GHG emissions.

The project has produced positive environmental and economic benefits through the following aspects:

- Displacing the electricity generated by fossil fuel fired power plants by utilising the renewable resources so as to avoid environmental pollution and GHG emissions,
- Contributing the economic development of the region by providing sustainable energy resources,

⁴ Forestry Permit

⁵ Turbine Contract Agreement

- Increasing the income and local standard of living by providing job opportunities for the local people.
- Reducing the blackout because of low voltage by lowering required capacity of the transformer.

Some of the key events related to the development of the project activity can be summarized as follows:

Table 3 - Key events of the development of the project activity

Date	Action
15.07.2013	Board Decision on VERs
27.11.2013	Turbine contract agreement
20.03.2014	Local Stakeholders Consultation Meeting
31.03.2014	Forestry Permit
30.06.2014	Bank Loan Agreement
28.11.2014	1st Crediting Period start date
28.11.2014	1st Monitoring Period start date
28.11.2014	Commissioning of 16 turbines
25.12.2014	Commissioning of 12 turbines
07.02.2015	Commissioning of 3 turbines
20.03.2015	Commissioning of 9 turbines
09.04.2015	Commissioning of 6 turbines
26.06.2015	Commissioning of 4 turbines
31.05.2017	1st Monitoring Period end date
01.06.2017	2nd Monitoring Period start date
04.10.2018	Revision of Generation License by EMRA
08.03.2019	Board Decision on VERs for the Capacity Extension
30.04.2019	Construction Agreement for the Capacity Extension
10.05.2019	Turbine Agreement for the Capacity Extension
30.06.2019	2nd Monitoring Period end date
01.07.2019	3rd Monitoring Period start date
16.07.2019	Local Stakeholders Consultation Meeting for the Capacity Extension
01.08.2019	Bank Loan Agreement for Capacity Extension
27.03.2020	Commissioning of 9 turbines
06.05.2020	Commissioning of 3 turbines
30.06.2021	3rd Monitoring Period end date
01.07.2021	4th Monitoring Period start date
27.11.2021	1st Crediting Period end date
28.11.2021	2nd Crediting Period start date
30.06.2023	4th Monitoring Period end date
27.11.2028	2nd Crediting Period end date

A.2. Location of project

The proposed project activity is located within Balıkesir Province, Central District and Manisa Province Kırkağaç District.

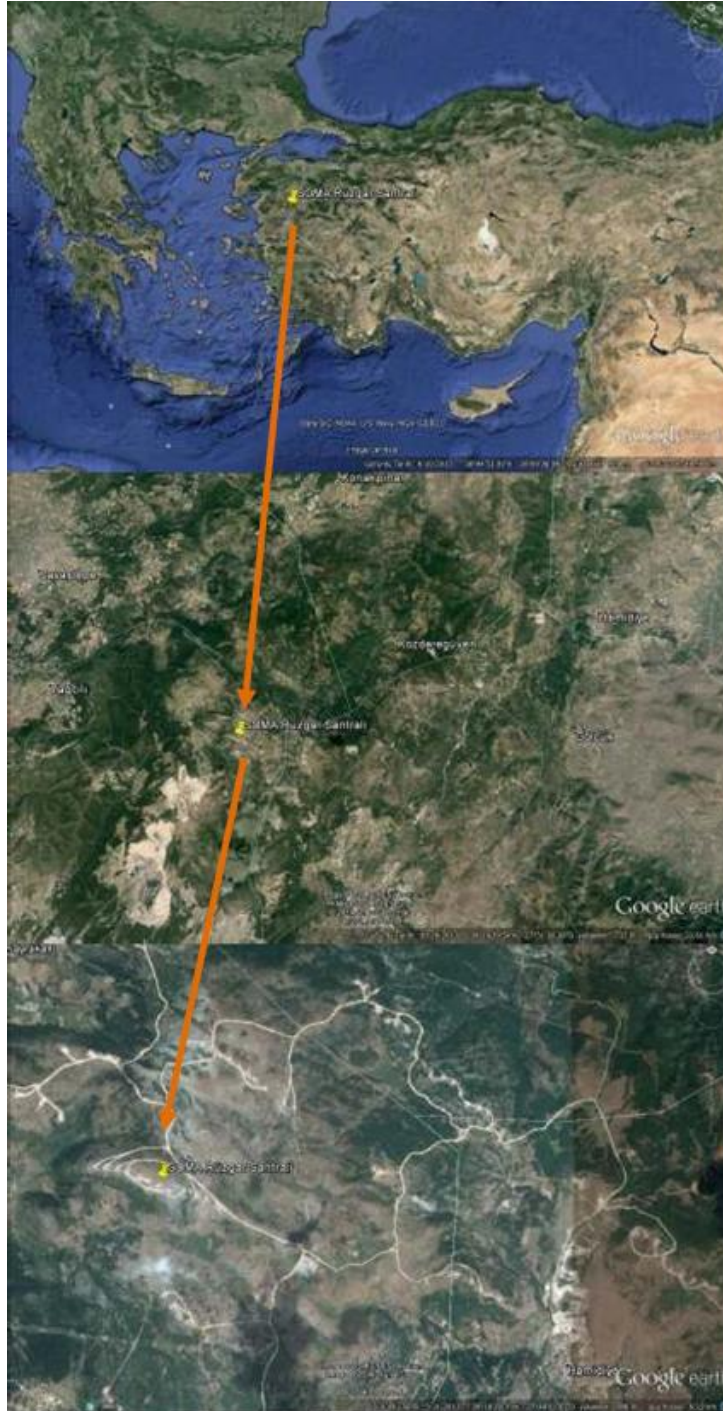


Figure 1. Location of the Project Activity

Table 4 - Coordinates of the Project Activity⁶

	E	N		E	N
T120	570221,00	4347797,00	T154	567639,00	4348783,00
T121	570444,00	4348539,00	T155	568388,00	4348293,00
T122	570453,00	4347753,00	T156	568510,00	4348136,00
T123	570918,00	4347852,00	T157	563533,00	4357312,00
T124	567609,00	4358022,00	T158	563692,00	4357229,00
T125	567998,00	4357841,00	T159	563795,00	4357087,00
T126	567811,00	4357945,00	T160	563888,00	4356793,00
T127	568695,00	4357560,00	T161	564024,00	4356670,00
T128	568855,00	4357411,00	T162	564638,00	4355333,00
T129	569109,00	4357347,00	T163	564802,00	4355242,00
T130	569396,00	4357403,00	T164	568691,00	4345793,00
T131	569684,00	4357490,00	T165	569508,00	4346344,00
T132	570160,00	4357069,00	T166	569664,00	4346255,00
T133	570457,00	4357049,00	T167	569831,00	4345249,00
T134	570704,00	4357095,00	T168	570014,00	4345137,00
T135	570849,00	4356944,00	T169	567535,00	4352960,00
T136	571162,00	4357171,00	T170	568261,00	4357770,00
T137	571588,00	4357538,00	T171	566757,00	4346414,00
T138	567834,00	4357143,00	T172	566110,00	4357960,00
T139	568048,00	4357089,00	T173	566747,00	4357966,00
T140	568405,00	4356849,00	T174	568927,00	4347728,00
T141	569734,00	4349228,00	T175	567325,00	4357969,00
T142	569913,00	4349180,00	T176	567431,30	4357241,60
T143	570041,00	4349050,00	T177	566439,70	4357944,40
T144	570156,00	4348886,00	T178	569165,00	4347364,00
T145	571061,00	4348836,00			
T146	570406,00	4351836,00	T179	566248,00	4355660,00
T147	570549,00	4351674,00	T180	567033,00	4357960,00
T148	570844,00	4351601,00	T181	566624,00	4355732,00
T149	571060,00	4351616,00			
T150	569072,00	4351611,00			
T151	567355,00	4349338,00			
T152	567345,00	4349005,00			
T153	567495,00	4348902,00			

A.3. Reference of applied methodology

Applied approved baseline and monitoring methodologies:

ACM0002, "Grid-connected electricity generation from renewable sources, Version 20.0."⁷

⁶ The Generation License has been provided to the DOE.

⁷ <https://cdm.unfccc.int/UserManagement/FileStorage/AG07ZJQ3EXD42LT5YV9HR16M8KINPO>

Applied approved tools:

- Tool to calculate the emission factor for an electricity system, (Version 07.0)⁸
- Tool for the demonstration and assessment of additionality, (Version 7.0.0)⁹
- Tool “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period”, Version 03.0.1¹⁰

A.4. Crediting period of project

The Renewable Crediting Period is selected as the type of crediting. The start of the crediting period is defined as the date of start of operation or a maximum of two years prior to Gold Standard registration, whichever occurs later, in line with the requirements of Gold Standard v2.2.

The first crediting period is 7 years and renewable twice.

The project was registered on 28/09/2015 with a renewable crediting period. The first crediting period starts from 28/11/2014 to 27/11/2021 and the second crediting period covers 28/11/2021 – 27/11/2028.

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

The Project Scenario entails the installation of 62 Enercon wind turbines. 50 of them are Enercon E-70 type, each with a capacity of 2000 kW and 12 of them are Enercon E-126 type, each with a capacity of 4000 kW. The total installed capacity of the project activity is 148.0 MWe. The turbines are 3 bladed with a horizontal axis. The turbine blades have the ability to change angles according to wind direction. The turbines are connected to the the Soma-B thermal plant transformer via a 380 kV HV transmission

⁸ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v5.0.pdf>

⁹ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

¹⁰ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-11-v3.0.1.pdf>

line of 17 km and the generated electricity will be supplied to Turkey's national electricity grid. The metering has been done at substation before electricity is fed into the grid.

Table 5- Key technical specifications of wind turbines

Parameter	Enercon E70	Enercon E-126
Rater power	2000 kW	4000 kW
Rotor diameter	71 m	127 m
Hub height	64 m	116 m
Swept area	3959 m ²	12668 m ²
Cut-out wind speed	28-34 m/s	28-34 m/s

The main meter and the back-up meter are EMH branded. The serial numbers are "7019903" for the main meter and "9798710" for the spare meter. Both meters have an accuracy class of 0.2S. The latest test date of the meters is 13/11/2022.¹¹

B.1.1. Forward Action Requests

FAR#1: In-line with GS4GG Principles and Requirements, VVB and PP shall consider the following rule after Design Renewal Certification is achieved:

5.1.29: 1st verification shall be completed within two years after the certification is achieved.

- 1st verification has been initiated within two years after the certification is achieved.

FAR#2: As remote audit conducted, VVB shall resume site visit when COVID-19 situation eases In-line with relevant Interim Measures.

- Physical site visit was done for this verification.

¹¹ Meter Test Protocol

FAR#3: As per annual reporting, PP shall communicate with GS for regular updates on pending court cases. Verifying VVB shall provide opinion on any legal contest, especially regarding expropriation activities considering the context and land tenure ownership.

- The expropriation process has been completed. Some of the payment receipts were provided to VVB. However, title deed has not been revised yet, therefore, this issue should be monitored during the next verification.

B.2. Post-Design Certification changes

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

There are no temporary deviations from the approved Monitoring & Reporting Plan, methodology and standardized baseline.

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 applied to the start date of the crediting period during this monitoring period.

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

Two turbines, T171 and T179, are connected to Soma-Polat Wind Farm Project, Turkey meters. To obtain the net generation of the project activity, generation values of the turbines, T171 and T179, through scada system are summed up with TR-2 values. The baseline emissions are calculated as follows:

Net electricity supplied to the grid = EGPJ,y (TR-2) + Scada Generation (T171 + T179).

B.2.5. Changes to project design of approved project

There are no changes to project design of registered project activity during the monitoring period.

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

The objective of the monitoring plan is to ensure the complete, consistent, clear, and accurate monitoring and calculation of the emissions reductions during the whole crediting period. The Project Owner is responsible for the implementation of the monitoring plan.

All monitoring procedures and requirements of the proposed project activity is in accordance with the methodology ACM0002, Version 20.

Monitoring Organization and System

The Project Participant is responsible for the overall management of the monitoring procedures including recording, data collection, calculating emission reductions and project emissions. Data is 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 is to be responsible for storage of data received from the measuring devices.

TEİAŞ meters are installed and sealed by TEİAŞ. Since the TEİAŞ meters are sealed by TEİAŞ and are also the basis of invoicing, a high accuracy and reliability is ensured. Also, the TEİAŞ meters have the ability to measure both the amount of electricity exported to the grid as well as the amount of electricity imported by the project activity, which provides an accurate and reliable measurement of the net electricity.

The existing main meter and the back-up meter are EMH branded. The serial numbers are "7019903" for the main meter and "9798710" for the spare meter. Both meters have an accuracy class of 0.2S.

EPIAS¹² records are the main source for the quantity of the net electricity. EPIAS is the financial settlement centre of TEİAŞ (the national grid operator). The website of EPIAS) is accessible to Project owner with their unique user ID and password. Once accessed, the Project owner is able to call electricity generation and consumption reports of their

¹² PMUM has been replaced by EPIAS as of 01/09/2015 in Turkey during the verification period. Retrospective data is accessible via EPIAS.

own projects. The same reports are used by the Project owner for invoicing TEIAS. The electricity generation data is reported monthly basis. The EPIAS records are crosschecked with the meter reading forms.

The operation manager is responsible for the whole management of the Project Activity and the technicians are responsible for the implementation of the Project Activity. One operations and maintenance director, one operating responsible manager, eight electrical technicians, eight maintenance technicians, twenty eight 28 security guards and 11 administrative staff, and thus fifty-seven employees, in total, are working for the Project Activity.

Please see below the management structure for the plant operation:

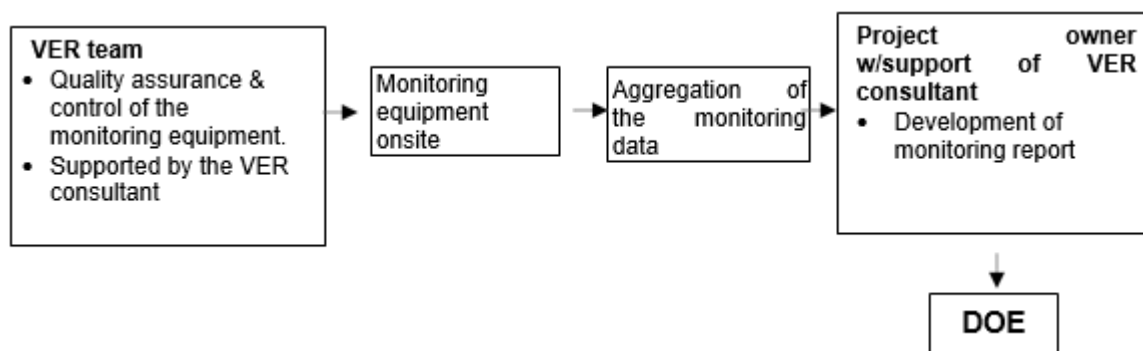


Figure 2. The management structure for the plant operation

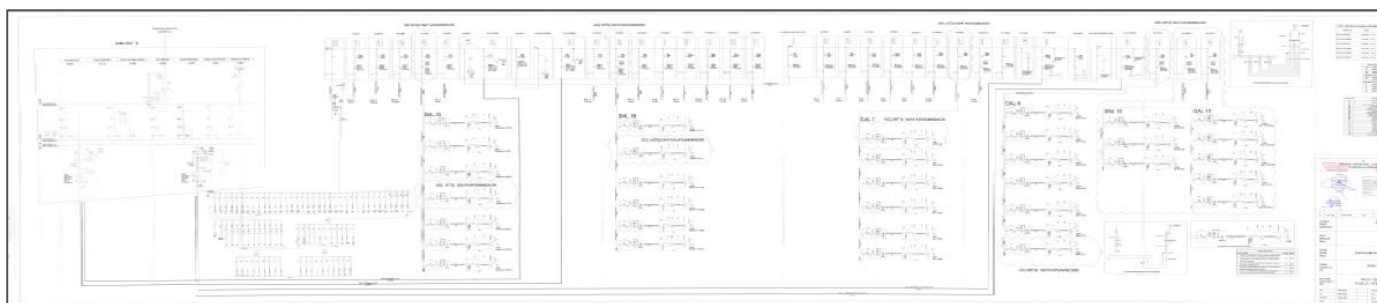


Figure 3. The single line diagram of the Project Activity

Monitoring parameters

According to the methodology applied, the electricity supplied to the national grid by the project and the electricity consumed by the project activity shall be monitored. The net electricity is the difference of the electricity supplied and consumed by the project and shall be taken into account for emission reduction calculations.

Data Management and Quality Control

The main source of measurement is the TEİAŞ meters, which is sealed by TEİAŞ and since it is subject to monthly invoicing high reliability and accuracy is secured. In accordance with the requirements of TEİAŞ, there are four meters installed at the site where two of them are called the main meters and the others are named as secondary. TEİAŞ is the main responsible for calibration and maintenance of the devices. TEİAŞ performs the necessary maintenance and calibration. Since the electricity generation data is used for the billing and accounting between TEİAŞ and the project participant the data is of high quality.

The Project Participant regularly checks the monitoring system on errors. In the case of errors, corrective actions will be undertaken by the Project Participant, or if required, by the supplier of the monitoring equipment. The grid operator's is the only one authorized to deal with fixing, calibrating, or changing the meters, which will be done either by the grid operator or by a company authorized by the grid operator. During this monitoring period, there were no records of meter failure. In case of any urgent case TEİAŞ contacts the Plant Manager. Since the meters are within TEİAŞ' province, TEİAŞ executes all the procedures for handling non-conformities. Therefore, the Project Participant does not have any internal auditing for this purpose.

During the monitoring period, there is not any change with the registered monitoring plan in terms of data aggregation. In addition to this, as explained in B.2.4, two turbines, T171 and T179, are connected to Soma-Polat Wind Farm Project, Turkey meters. To obtain the net generation of the project activity, generation values of the turbines, T171 and T179, through scada system are summed up with TR-2 values.

SECTION D. DATA AND PARAMETERS

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

Relevant Indicator	SDG	13.3.2 Number of countries that have communicated the strengthening of institutional, systemic and individual capacity-building to implement
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	adaptation, mitigation and technology transfer, and development actions" and following target
Data/parameter	EFgrid, CM, y
Unit	tCO2/MWh
Description	Emission factor of the Turkish grid determined ex-ante. It's been published by the Ministry of Energy for 2018 on 07/10/2021.
Source of data	Ministry of Energy. Please see: https://enerji.enerji.gov.tr/Media/Dizin/BHIM/tr/Duyurular//Bilgi_Formu_Web_Sitesi_2019_202110071443.pdf
Value(s) applied	0.6482
Choice of data or Measurement methods and procedures	Official data
Purpose of data	Calculation of the baseline emissions-to demonstrate contribution to SDG Target 13.3.: Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
Additional comment	-

D.2. Data and parameters monitored

Relevant Indicator/Safeguarding Principle	SDG	SDG 7.2.1 Renewable energy share in the total final energy consumption															
Data / Parameter		EGPJ, y															
Unit		MWh/y															
Description		Quantity of net electricity generation supplied by the project plant/unit to the grid in year y															
Source of data		Direct measurement (EPIAS records)															
Value(s) applied		<table border="1"> <tr> <td>CP1</td><td>2021 Vintage (01.07.2021-27.11.2021)</td><td>232,716.30</td></tr> <tr> <td>CP2</td><td>2021 Vintage (28.11.2021-31.12.2021)</td><td>54,400.45</td></tr> <tr> <td>CP2</td><td>2022 Vintage (01.01.2022-31.12.2022)</td><td>492,454.28</td></tr> <tr> <td>CP2</td><td>2023 Vintage (01.01.2023-30.06.2023)</td><td>203,961.71</td></tr> <tr> <td></td><td>Total</td><td>983,532.73</td></tr> </table> ~~287,116.75 MWh in 2021 (01.07.2021-31.12.2021)~~ ~~492,454.28 MWh in 2022 (01.01.2022-31.12.2022)~~ ~~203,961.71 MWh in 2023 (01.01.2023-30.06.2023)~~	CP1	2021 Vintage (01.07.2021-27.11.2021)	232,716.30	CP2	2021 Vintage (28.11.2021-31.12.2021)	54,400.45	CP2	2022 Vintage (01.01.2022-31.12.2022)	492,454.28	CP2	2023 Vintage (01.01.2023-30.06.2023)	203,961.71		Total	983,532.73
CP1	2021 Vintage (01.07.2021-27.11.2021)	232,716.30															
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CP2	2023 Vintage (01.01.2023-30.06.2023)	203,961.71															
	Total	983,532.73															

	The net electricity generation for this monitoring period (01/07/2021 – 30/06/2023) is 983,532.73MWh.																		
Measurement methods and procedures	The net electricity is measured continuously by two group electricity meters at the grid interface and recorded monthly. TR-2 Meters: <table><tr><td></td><td>Main Meter</td><td>Back-up Meter</td></tr><tr><td>Manufacturer</td><td>EMH</td><td>EMH</td></tr><tr><td>Serial Number</td><td>7019903</td><td>9798710</td></tr><tr><td>Latest Test Date of the Meter</td><td>31/05/2020 13/11/2022</td><td>31/05/2020 10/12/2020 13/11/2022</td></tr><tr><td>Accuracy class of the Meter</td><td>0.2S</td><td>0.2S</td></tr><tr><td>Calibration year</td><td>2017</td><td>2020</td></tr></table>		Main Meter	Back-up Meter	Manufacturer	EMH	EMH	Serial Number	7019903	9798710	Latest Test Date of the Meter	31/05/2020 13/11/2022	31/05/2020 10/12/2020 13/11/2022	Accuracy class of the Meter	0.2S	0.2S	Calibration year	2017	2020
	Main Meter	Back-up Meter																	
Manufacturer	EMH	EMH																	
Serial Number	7019903	9798710																	
Latest Test Date of the Meter	31/05/2020 13/11/2022	31/05/2020 10/12/2020 13/11/2022																	
Accuracy class of the Meter	0.2S	0.2S																	
Calibration year	2017	2020																	
Monitoring frequency	The electricity is measured continuously and recorded at least monthly.																		
QA/QC procedures	- A spare meter is used for crosschecking the accuracy and both meters are calibrated if required. - EPIAS records are considered as the main source for the net electricity and the values are crosschecked with the data measured by meters. TEIAS is responsible for calibration and maintenance of the devices. The periodic calibration or maintenance is under the responsibility of TEIAS 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 periodic tests are executed on annual basis. - Net electricity exported is crosschecked with Meter Reading Forms issued by Project owner and approved by governmental officers. The Meter Reading Forms were issued by the governmental officers and signed by both parties. Currently, the forms are filled in by the project owner and approved by the governmental officers. Additionally, remote reading by the governmental body is also available.																		
Calculation method (if applicable)	N/A																		
Purpose of data	To measure the electricity produced and supplied to the grid and thus calculation of emission reductions.																		
Additional comment	-																		

Data / Parameter	ER _y
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Unit	tCO2/y
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Description	Emission reductions by the project activity in year y (t CO2/yr) In accordance with ACM0002, baseline emissions include CO2 from electricity generation in powerplants that are displaced due to the project activity. And baseline emissions correspond to emission reductions and are calculated as the net electricity generated by the project activity, multiplied with combined margin CO2 emission factor for grid connected power generation in year y.											
Source of data	Both measured and calculated Emission reductions will be calculated as considering the EPIAS records for the net electricity generated and the emission factor for the grid, 0.6482 tCO2/MWh, published by the Ministry of Energy.											
Value(s) applied	<table><tr><th>Vintages</th><th>Achieved emission reductions</th></tr><tr><td>01/07/2021 – ~~27/11/2021~~31/12/2021</td><td>~~130,931.00~~ 164,219</td></tr><tr><td>~~28/11/2021~~31/12/2021</td><td>33,287.00</td></tr><tr><td>01/01/2022 – 31/12/2022</td><td>~~301,333.00~~ 301,332</td></tr><tr><td>01/01/2023 – 30/06/2023</td><td>~~124,804.00~~ 124,803</td></tr></table> The achieved emission reductions for this monitoring period 01/07/2021 – 30/06/2023) is 590,355 tCO2 ¹³ .		Vintages	Achieved emission reductions	01/07/2021 – ~~27/11/2021~~ 31/12/2021	~~130,931.00~~ 164,219	~~28/11/2021~~ 31/12/2021	33,287.00	01/01/2022 – 31/12/2022	~~301,333.00~~ 301,332	01/01/2023 – 30/06/2023	~~124,804.00~~ 124,803
Vintages	Achieved emission reductions											
01/07/2021 – ~~27/11/2021~~ 31/12/2021	~~130,931.00~~ 164,219											
~~28/11/2021~~ 31/12/2021	33,287.00											
01/01/2022 – 31/12/2022	~~301,333.00~~ 301,332											
01/01/2023 – 30/06/2023	~~124,804.00~~ 124,803											
Measurement methods and procedures	Methodology ACM0002, Version 20.0											
Monitoring frequency	Yearly											
QA/QC procedures	- According to the methodology applied, the electricity supplied to the national grid by the project and the electricity consumed by the project activity shall be monitored. The net electricity is the difference of the electricity supplied and consumed by the project and shall be taken into account for emission reduction calculations. - Two power meters are installed at the grid interface of the project. One is the main meter and the other is the back-up meter of the main meter for cross-checking. Both meters are jointly inspected and sealed to be protected from interference by any of the parties.											

¹³ The emission reductions have been capped to the upper bound of the sensitivity analysis range for the monitoring period as per Rule Clarification -ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

Purpose of data	Calculation of combined margin CO2 emission factor and thus the baseline emissions-to demonstrate contribution to SDG Target 13.3.: Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	8.8.1. Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status
Data / Parameter	a) Number of employees to be trained for the construction and operation of the plant b) Fair wage, working hours and occupational injuries
Unit	a) N/A b) N/A
Description	a) The project proponent aims for improvement of safety for labour providers. The workers benefited from trainings on construction health and safety b) The social security conditions provided to the employees
Source of data	a) The number of trainings and attendance of employees have been monitored by documents (Training Records) b) Social Security Records

Value(s) applied	a) Training and attendance certificates have been provided to the VVB b) Social Security Records Please see the trainings in MP as below: <table><tr><th>Date</th><th>Training</th><th><u>CP</u></th></tr><tr><td>25.10.2021</td><td>H&S</td><td><u>CP1</u></td></tr><tr><td>2.12.2021</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>3.12.2021</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>27.12.2021</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>28.12.2021</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>26.04.2022</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>27.04.2022</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>13.06.2022</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>14.11.2022</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>3.01.2023</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>6.01.2023</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>14.02.2023</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>12.05.2023</td><td>H&S</td><td><u>CP2</u></td></tr><tr><td>29.05.2023</td><td>H&S</td><td><u>CP2</u></td></tr></table>	Date	Training	<u>CP</u>	25.10.2021	H&S	<u>CP1</u>	2.12.2021	H&S	<u>CP2</u>	3.12.2021	H&S	<u>CP2</u>	27.12.2021	H&S	<u>CP2</u>	28.12.2021	H&S	<u>CP2</u>	26.04.2022	H&S	<u>CP2</u>	27.04.2022	H&S	<u>CP2</u>	13.06.2022	H&S	<u>CP2</u>	14.11.2022	H&S	<u>CP2</u>	3.01.2023	H&S	<u>CP2</u>	6.01.2023	H&S	<u>CP2</u>	14.02.2023	H&S	<u>CP2</u>	12.05.2023	H&S	<u>CP2</u>	29.05.2023	H&S	<u>CP2</u>
Date	Training	<u>CP</u>																																												
25.10.2021	H&S	<u>CP1</u>																																												
2.12.2021	H&S	<u>CP2</u>																																												
3.12.2021	H&S	<u>CP2</u>																																												
27.12.2021	H&S	<u>CP2</u>																																												
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13.06.2022	H&S	<u>CP2</u>																																												
14.11.2022	H&S	<u>CP2</u>																																												
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6.01.2023	H&S	<u>CP2</u>																																												
14.02.2023	H&S	<u>CP2</u>																																												
12.05.2023	H&S	<u>CP2</u>																																												
29.05.2023	H&S	<u>CP2</u>																																												
Measurement methods and procedures	Training certificates, training attendance lists and social security records																																													
Monitoring frequency	Yearly																																													
QA/QC procedures	-																																													
Purpose of data	Monitoring the trainings to justify contribution to SDG 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	-																																													

Relevant SDG Indicator/Safeguarding Principle	8.5.2. Unemployment rate, by sex, age and persons with disabilities
Data / Parameter	Number of employments
Unit	Number
Description	Number of people permanently working for the operation of the project
Source of data	Social Security System (SGK)

Value(s) applied	<table border="1" data-bbox="555 264 1267 356"> <tr> <td><u>CP1</u></td><td><u>57</u></td></tr> <tr> <td><u>CP2</u></td><td><u>57</u></td></tr> </table> There are 57 employees working for Project Owner at the site. Since both the Project Activity and Soma - Polat Wind Farm Project, Turkey (GS 398) are under the same company it is not possible to identify which employee is working for the project activity. However, taking into account that both projects are GS registered projects with the same parameter, the benefit is linked. • 1 Operations and Maintenance Director • 1 Operating Responsible Manager • 8 Electrical Technicians • 8 Maintenance Technicians • 28 Security Guards • 11 Administrative Staff	<u>CP1</u>	<u>57</u>	<u>CP2</u>	<u>57</u>
<u>CP1</u>	<u>57</u>				
<u>CP2</u>	<u>57</u>				
Measurement methods and procedures	Social Security System (SGK) records				
Monitoring frequency	Yearly				
QA/QC procedures	SGK records of employees are provided during each monitoring period.				
Purpose of data	SDG 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	-				

D.3. Comparison of monitored parameters with last monitoring period

Since the project is not community service project, this section is non-applicable.

D.4. Implementation of sampling plan

N/A

SECTION E. CALCULATION OF SDG IMPACTS

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

SDG 13

According to the methodology baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. 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:

The baseline emission BE_y (tCO₂e) during the monitoring period results from:

$$BE_y = EGPJ,y * EF_{grid,CM,y}$$

Where:

BE _y	= Baseline emissions in year y (tCO ₂ e/y)
EGPJ,y	= Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)
EF _{grid,CM,y}	= Combined margin CO ₂ emission factor for grid connected power generation in year y calculated by using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO ₂ /MWh)

EF_{grid,CM,y} value is fixed as 0.5960 tCO₂/MWh for the 1st crediting period of seven years.
 EF_{grid,CM,y} value is fixed as 0.6482 tCO₂/MWh for the 2nd crediting period of seven years.

$$BE_y = 232,716.30 \text{ MWh} \times 0.5960 \text{ tCO}_2/\text{MWh} = 138,699 \text{ tCO}_2$$

$$BE_y = 750,816.43 \text{ MWh} \times 0.6482 \text{ tCO}_2/\text{MWh} = 486,679 \text{ tCO}_2$$

In total;

BEy = 625,376 tCO₂. However, the emission reductions have been capped to 590,355 tCO₂ as per ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

Table 6 - Baseline Emissions

		TR-2 Power Meters				SCADA Generation					
Month	(A) Electricity supplied to the grid [MWh]	(B) Electricity consumption from the grid [MWh]	(C) = (A) - (B) EG (ID 8) Net electricity supplied to the grid [MWh]	T179 [MWh]	T171 [MWh]	Net electricity supplied to the grid by The Project Activity [MWh]	EF [tCO ₂ /MWh]	Baseline Emission: ER = EG * EF [t CO ₂ -eq]	Capped Emission Reductions [t CO ₂ -eq]	Capped Emission Reductions, [t CO ₂ -eq]	
Jul-21	49,063.82	6.15	49,057.67	1,574.82	1,817.61	52,450.10	0.5960	31,260	1,751	29,510	
Aug-21	41,953.63	13.32	41,940.30	1,233.50	1,661.04	44,834.84	0.5960	26,722	1,496	25,225	
Sep-21	51,828.90	2.69	51,826.21	1,472.55	1,819.85	55,118.61	0.5960	32,851	1,840	31,011	
Oct-21	40,176.88	7.25	40,169.63	1,026.97	1,382.04	42,578.63	0.5960	25,377	1,421	23,956	
01.11.2021-27.11.2021	35,481.86	12.96	35,468.90	1,083.91	1,181.32	37,734.12	0.5960	22,490	1,259	21,230	
28.11.2021-30.11.2021	3,942.43	1.44	3,940.99			3,940.99	0.6482	2,555	143	2,411	
Dec-21	47,620.80	8.83	47,611.97	1,530.66	1,316.83	50,459.46	0.6482	32,708	1,832	30,876	
Jan-22	36,917.20	8.68	36,908.51	1,039.89	206.99	38,155.39	0.6482	24,732	1,385	23,347	
Feb-22	36,111.83	12.03	36,099.81	1,056.79	389.26	37,545.87	0.6482	24,337	1,363	22,974	
Mar-22	46,778.57	6.58	46,771.99	1,278.90	1,636.74	49,687.62	0.6482	32,208	1,804	30,404	
Apr-22	31,597.09	11.07	31,586.03	941.63	1,031.18	33,558.84	0.6482	21,753	1,218	20,535	
May-22	27,085.04	9.41	27,075.63	772.64	946.86	28,795.12	0.6482	18,665	1,045	17,620	
Jun-22	46,673.38	1.75	46,671.63	1,386.07	1,687.86	49,745.56	0.6482	32,245	1,806	30,439	
Jul-22	71,463.21	0.00	71,463.21	2,073.26	2,643.28	76,179.74	0.6482	49,380	2,765	46,614	
Aug-22	41,279.45	9.30	41,270.15	1,263.48	1,662.63	44,196.27	0.6482	28,648	1,604	27,044	
Sep-22	5,757.54	1.81	5,755.73	625.85	1,173.54	7,555.11	0.6482	4,897	274	4,623	
Oct-22	51,698.09	7.39	51,690.70	1,509.13	1,948.35	55,148.19	0.6482	35,747	2,002	33,745	
Nov-22	37,899.34	2.74	37,896.60	1,182.57	1,263.66	40,342.84	0.6482	26,150	1,464	24,686	
Dec-22	29,990.66	20.63	29,970.04	897.06	676.66	31,543.76	0.6482	20,447	1,145	19,302	
Jan-23	31,404.26	19.10	31,385.17	912.95	958.64	33,256.75	0.6482	21,557	1,207	20,350	
Feb-23	37,475.38	9.63	37,465.74	813.82	1,149.34	39,428.90	0.6482	25,558	1,431	24,127	
Mar-23	38,995.23	11.54	38,983.69	1,176.05	1,137.75	41,297.50	0.6482	26,769	1,499	25,270	
Apr-23	24,982.75	10.07	24,972.68	837.55	799.20	26,609.44	0.6482	17,248	966	16,282	
May-23	30,635.81	4.68	30,631.13	565.14	1,326.68	32,522.95	0.6482	21,081	1,181	19,901	
Jun-23	28,699.04	4.30	28,694.75	763.43	1,388.00	30,846.17	0.6482	19,994	1,120	18,875	
CP1	2021 Vintage (01.07.2021-27.11.2021)	218,505.08	42.37	218,462.71	6,391.75	7,861.85	232,716.30	0.5960	138,698	7,767	130,931.00
CP2	2021 Vintage (28.11.2021-31.12.2021)	51,563.22	10.27	51,552.96	1,530.66	1,316.83	54,400.45	0.6482	35,262	1,975	33,287.00
CP2	2022 Vintage (01.01.2022-31.12.2022)	463,251.40	91.38	463,160.02	14,027.25	15,267.01	492,454.28	0.6482	319,208	17,876	301,333.00
CP2	2023 Vintage (01.01.2023-30.06.2023)	192,192.47	59.32	192,133.16	5,068.94	6,759.61	203,961.71	0.6482	132,207	7,404	124,804.00
	Total	925,512.18	203.33	925,308.85	27,018.59	31,205.29	983,532.73	0.6482	625,375	35,021	590,355

Month	(A) Electricity supplied to the grid [MWh]	(B) Electricity consumption from the grid [MWh]	(C) = (A) - (B) EG (ID 8) Net electricity supplied to the grid [MWh]	T179 [MWh]	T171 [MWh]	Net electricity supplied to the grid by The Project Activity [MWh]	EF [tCO ₂ /MWh]	Baseline emission: ER = EG * EF [t CO ₂ -eq]	Capped Emission Reductions [t CO ₂ -eq]	Capped Emission Reductions, [t CO ₂ -eq]
Jul-21	49,063.82	6.15	49,057.67	1,574.82	1,817.61	52,450.10	0.5960	31,260		
Aug-21	41,953.63	13.32	41,940.30	1,233.50	1,661.04	44,834.84	0.5960	26,722		
Sep-21	51,828.90	2.69	51,826.21	1,472.55	1,819.85	55,118.61	0.5960	32,851		
Oct-21	40,176.88	7.25	40,169.63	1,026.97	1,382.04	42,578.63	0.5960	25,377		
01.11.2021-27.11.2021	35,481.86	12.96	35,468.90			37,734.12	0.5960	22,490		
28.11.2021-30.11.2021	3,942.43	1.44	3,940.99	1,083.91	1,181.32		0.6482	2,555		
Dec-21	47,620.80	8.83	47,611.97	1,530.66	1,316.83	50,459.46	0.6482	32,708		
Jan-22	36,917.20	8.68	36,908.51	1,039.89	206.99	38,155.39	0.6482	24,732		
Feb-22	36,111.83	12.03	36,099.81	1,056.79	389.26	37,545.87	0.6482	24,337		
Mar-22	46,778.57	6.58	46,771.99	1,278.90	1,636.74	49,687.62	0.6482	32,208		
Apr-22	31,597.09	11.07	31,586.03	941.63	1,031.18	33,558.84	0.6482	21,753		
May-22	27,085.04	9.41	27,075.63	772.64	946.86	28,795.12	0.6482	18,665		
Jun-22	46,673.38	1.75	46,671.63	1,386.07	1,687.86	49,745.56	0.6482	32,245		
Jul-22	71,405.21	0.00	71,405.21	2,073.20	2,043.20	76,173.74	0.6482	49,500		
Aug-22	41,279.45	9.30	41,270.15	1,263.48	1,662.63	44,196.27	0.6482	28,648		
Sep-22	5,757.54	1.81	5,755.73	625.85	1,173.54	7,555.11	0.6482	4,897		
Oct-22	51,698.09	7.39	51,690.70	1,509.13	1,948.35	55,148.19	0.6482	35,747		
Nov-22	37,899.34	2.74	37,896.60	1,182.57	1,263.66	40,342.84	0.6482	26,150		
Dec-22	29,990.66	20.63	29,970.04	897.06	676.66	31,543.76	0.6482	20,447		
Jan-23	31,404.26	19.10	31,385.17	912.95	958.64	33,256.75	0.6482	21,557		
Feb-23	37,475.38	9.63	37,465.74	813.82	1,149.34	39,428.90	0.6482	25,558		
Mar-23	38,995.23	11.54	38,983.69	1,176.05	1,137.75	41,297.50	0.6482	26,769		
Apr-23	24,982.75	10.07	24,972.68	837.55	799.20	26,609.44	0.6482	17,248		
May-23	30,635.81	4.68	30,631.13	565.14	1,326.68	32,522.95	0.6482	21,081		
Jun-23	28,699.04	4.30	28,694.75	763.43	1,388.00	30,846.17	0.6482	19,994		
2021 Vintage (01.07.2021-31.12.2021)	270,068.31	52.64	270,015.67	7,922.41	9,178.68	287,116.75	0.6482	173,961	9,742	164,219
2022 Vintage (01.01.2022-31.12.2022)	463,251.40	91.38	463,160.02	14,027.25	15,267.01	492,454.28	0.6482	319,208	17,876	301,332
2023 Vintage (01.01.2023-30.06.2023)	192,192.47	59.32	192,133.16	5,068.94	6,759.61	203,961.71	0.6482	132,207	7,404	124,803
Total	925,512.18	203.33	925,308.85	27,018.59	31,205.29	983,532.73	0.6482	625,376	35,021	590,355

SDG 7

The baseline value for renewable energy generation is 0. In the absence of the project activity, there wouldn't be renewable energy generation.

SDG 8

The baseline value for the number of employments is 570. In the absence of the project activity, there wouldn't be employment of new staff.

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

SDG 13

In accordance with the methodology ACM0002 "Grid-connected electricity generation from renewable sources", no project emissions need to be considered⁴. Project emissions apply only for geothermal power plants, solar thermal power plants and for some hydro power plants. Therefore,

$$PE_y = 0.$$

SDG 7

The project value for renewable energy generation is 983,532.73MWh.

<u>Crediting Period</u>	<u>MWh</u>
<u>CP1</u>	<u>232,716.30</u>
<u>CP2</u>	<u>750,816.43</u>

SDG 8

The project value for employment is 57 for both CP1 and CP2.

E.3. Calculation of leakage

In line with the requirements of ACM0002 "Grid-connected electricity generation from renewable sources", no leakage emissions are considered. The main emissions potentially giving rise to leakage in context of electric sector projects are emissions arising due to activities such as power plant construction and upstream emissions from fossil fuel use (e.g., extraction, processing and transport). These emission sources are neglected.

$$LE_y = 0$$

E.4. Calculation of net benefits or direct calculation for each SDG Impact**E.4. CP1**

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
13	Climate Action	<u>130,931</u> 590,355tCO ₂	0	<u>130,931</u> 590,355tCO ₂
7	Affordable and Clean Energy	0	<u>232,716.30</u> 983,532.73MWh	<u>232,716.30</u> 983,532.73MWh
8	Decent Work and Economic Growth (Number of employment)	0	57	57

CP2

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
<u>13</u>	<u>Climate Action</u>	<u>459,424 tCO₂</u>	<u>0</u>	<u>459,424 tCO₂</u>
<u>7</u>	<u>Affordable and Clean Energy</u>	<u>0</u>	<u>750,816.43MWh</u>	<u>750,816.43MWh</u>

8	<u>Decent Work and Economic</u>			
	<u>Growth</u>	<u>0</u>	<u>57</u>	<u>57</u>
	<u>(Number of employment)</u>			

In accordance with ACM0002, the baseline emissions are calculated as the net electricity generated by the project activity multiplied with the baseline emission factor of the project grid.

$$BE_y = EG_{PJ,y} \times EF_{grid,CM} \quad \text{Equation (1)}$$

where:

- BE_y = Baseline Emissions in year y (tCO₂e)
- $EG_{PJ,y}$ = 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)
- $EF_{grid,CM}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system"(t CO₂/MWh)

$$BE_y = 590,355 \text{ tCO}_2$$

Emission Reductions (Total)

$$ER_y = BE_y - PE_y - LE_y \quad \text{Equation (2)}$$

$$ER_y = 590,355 - 0 - 0$$

$$ER_y = 590,355 \text{ tCO}_2$$

E.5. 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 ¹⁴ achieved during this monitoring period
13	541,160_VERs	625,375 ~~6~~ VERs
7	859,656.00MWh	983,532.73MWh
8	57	57

E.5.1. However, the emission reductions have been capped to 590,355 tCO₂ as per ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

SDG13

Estimated emission reduction in ex ante calculation of registered PDD is 278,614 tCO₂, which corresponds to 541,160 tCO₂ for 730 days. And the actual emission reduction achieved during this monitoring period is 625,375~~6~~ tCO₂ (for 01/07/2021 - 30/06/2023, 730 days).

However, the emission reductions have been capped to 590,355 tCO₂ as per ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

SDG 7

Estimated electricity generation in ex ante calculation of registered PDD is 429,808 MWh, which corresponds to 859,656.00 MWh for 730 days. And net electricity generation achieved during this monitoring period is 983,532.73MWh (for 01/07/2021 - 30/06/2023, 730 days).

SDG8

¹⁴ Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

The baseline value for the number of employments is 57. In the absence of the project activity, there wouldn't be employment of new staff. 57 employees are employed, currently.

E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

Regarding the electricity difference, IRR spreadsheet has been revised considering the realized electricity generation of the MP. The IRR becomes as 9.5% which is still below the financial benchmark of 15 % in the registered PDD.

Table 7 - Comparison of electricity generation

Vintage	Period	Total Days	Amount achieved during this monitoring period (tCO ₂ e)	Amount estimated ex ante (tCO ₂ e)	Difference (tCO ₂ e)	Difference (%)
2021	2021 Vintage (01.07.2021-27.11.2021)	150	138,698	98,430	40,268	40.9%
	2021 Vintage (28.11.2021-31.12.2021)	34	35,262	25,953	9,309	35.9%
2022	2022 Vintage (01.01.2022-31.12.2022)	365	319,208	278,614	40,594	14.6%
2023	2023 Vintage (01.01.2023-30.06.2023)	181	132,207	138,162	-5,955	-4.3%
Total		730	625,375	541,160	84,216	15.6%

Vintage	Period	Total Days	Amount achieved during this monitoring period (MWh)	Amount estimated ex ante (MWh)	Difference (MWh)	Difference (%)
2021	2021 Vintage (01.07.2021-27.11.2021)	150	232,716.30	176,642	56,075	31.7%
	2021 Vintage (28.11.2021-30.11.2021)	34	54,400.45	40,039	14,362	35.9%
2022	2022 Vintage (01.01.2022-31.12.2022)	365	492,454.28	429,828	62,626	14.6%
2023	2023 Vintage (01.01.2023-30.06.2023)	181	203,961.71	213,148	-9,186	-4.3%
Total		730	983,532.73	859,656.00	123,876.73	14.4%

Regarding the difference between the realized and estimated emission reductions during the monitoring period, the emission reductions have been capped to 590,355 tCO₂ as per ASSESSMENT APPROACH FOR REPORTING HIGHER EX-POST EMISSION REDUCTIONS.

Table 8 - Comparison of emission reductions

Vintage	Period	Total Days	Amount achieved during this monitoring period (tCO ₂ e)	Amount estimated ex ante (tCO ₂ e)	Difference (tCO ₂ e)	Difference (%)
2021	2021 Vintage (01.07.2021-27.11.2021)	150	138,699	98,430	40,269	40.9%
	2021 Vintage (28.11.2021-31.12.2021)	34	35,262	25,953	9,309	35.9%
2022	2022 Vintage (01.01.2022-31.12.2022)	365	319,208	278,614	40,594	14.6%
2023	2023 Vintage (01.01.2023-30.06.2023)	181	132,207	138,162	-5,955	-4.3%
Total		730	625,376	541,160	84,217	15.6%

SDG 8

If the project hadn't been realized, there wouldn't be employment opportunity for employees. Therefore, ~~achieved impact~~ the impact achieved for this SDG is 57.

SECTION F. SAFEGUARDS REPORTING

Relevant SDG Indicator/Safeguarding Principle	Safeguarding Principle 4.3.4: Release of pollutants
Data / Parameter	Noise
Unit	N/A
Description	During the validation on site visit, this issue has been asked to the stakeholders and has been validated by the validating VVB that there is no complaint regarding the project activity. No significant increase in the noise level. Although no negative impact is expected, noise impact of project activity has been included to the monitoring plan and monitored during the first monitoring period to ensure the validity of the appraisalment.
Source of data	Interviews with stakeholders
Value(s) applied	No complaint has been received.
Measurement methods and procedures	Interviews during first verification after crediting renewal
Monitoring frequency	First verification after crediting renewal
QA/QC procedures	N/A
Calculation method (if applicable)	N/A
Purpose of data	To monitor compliance to Safeguarding Principle 4.3.4 (Release of pollutants)
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	Safeguarding Principle 4.3.5: Hazardous and Non-hazardous Waste
Data / Parameter	a) Wastewater b) Waste oil
Unit	N/A
Description	a) Domestic wastewater during construction and operation will be collected in the leakage-proof septic tank and will be periodically transferred by municipality. b) The Project Participant shall ensure that the waste oil is transferred and disposed in line with the regulations.

Source of data	a) Wastewater disposal invoice or through evidence of disposal b) Through visual inspection or through evidence of disposal
Value(s) applied	2021, 2022 and 2023 hazardous waste disposal submissions show that wastes have been transferred in line with the regulations.
Measurement methods and procedures	N/A
Monitoring frequency	Once for each monitoring period
QA/QC procedures	N/A
Calculation method (if applicable)	N/A
Purpose of data	To monitor compliance to Safeguarding Principle 4.3.5 (Hazardous and Nonhazardous Waste)
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	Safeguarding Principle 4.3.10: High Conservation Value Areas and Critical Habitats
Data / Parameter	Biodiversity
Unit	N/A
Description	Impact on bird/bat carcasses and nests
Source of data	Monitoring of Project Participant's appointed personnel
Value(s) applied	No negative impact has been observed.
Measurement methods and procedures	Bird/bat carcasses and nests will be monitored
Monitoring frequency	Once for each monitoring period
QA/QC procedures	N/A
Calculation method (if applicable)	N/A
Purpose of data	To monitor compliance to Safeguarding Principle 4.3.10: High Conservation Value Areas and Critical Habitats
Additional comment	-

Relevant SDG Indicator/Safeguarding Principle	Safeguarding Principle 4.3.: Land Tenure and Other Rights
Data / Parameter	Expropriation of private land
Unit	N/A

Description	Most of the project area falls into state owned lands, however there is a minor share of private land that will be expropriated due to project activity. The PP will undertake the expropriation by compensating the value of the private lands to the owners. The expropriation will not lead to any resettlement but will only be limited with use of private land.
Source of data	Interviews during the first verification or validation on site visit with the VVB
Value(s) applied	Regarding expropriation procedures of the project activity, the related cases were realized and decided on two different dates: 25.08.2014 and 02.09.2014. All cases have been finalized on 04.09.2014 and 29.09.2014, respectively. Thus, all cases were completed in September 2014, and the expropriation costs determined by the court in September were deposited into the relevant accounts
Measurement methods and procedures	Interviews during first verification after crediting renewal
Monitoring frequency	First verification after crediting renewal
QA/QC procedures	N/A
Calculation method (if applicable)	N/A
Purpose of data	To monitor compliance to Safeguarding Principle 4.3.: Land Tenure and Other Rights
Additional comment	-

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.

The contact information of the plant responsible exists at the Mukhtars of Hıdırbalı, Tabanlar, Hamidiye and Çevircek, the project owner and local community are always in touch. The grievance logbook exists at Mukhtar. The project owner regularly checks with the Mukhtar if any complaint or a request exists. Any complaint or need from the local community could directly be received by the project owner and appropriate contributions or improvements are made to the local community. No complaint has been received during the monitoring period.

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

Since there is no request or complaint from the stakeholders, no mitigation is monitored specially.

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

No legal contest or dispute has arisen with the project during the monitoring period.

Revision History

Version	Date	Remarks
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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