Monitoring report form for CDM Project Activity

(Version 08.0)

Complete this form in accordance with the Attachment "Instructions for filling out the monitoring report form" at the end of this form.

MONITORING REPORT			
Title of the project activity	Solar for Forest		
UNFCCC reference number of the project activity	GS 3305		
Version number of the PDD applicable to this monitoring report	PDD : 25/05/2015 – version 03		
Version number of this monitoring report	06		
Completion date of the monitoring report	10/04/2022		
Monitoring period number	2nd		
Duration of this monitoring period	01/10/2017 – 30/09/2020 (36 months)		
Monitoring report number for this monitoring period	2nd		
Project participants	Ege Orman Vakfı İktisadi İşletmesi (The Aegean Forest Foundation, EGEVAK) (Project Owner) GTE Carbon (Project Developer)		
Host Party	Turkey		
Applied methodologies and standardized baselines	AMS-I.D Version 17.0		
Sectoral scopes	Sectoral scope 1: Energy Industries (Renewable-/non-renewable sources) Grid connected renewable electricity generation		
Amount of GHG emission reductions or net anthropogenic GHG removals achieved by the project activity in this monitoring period	Amount achieved before 1 January 2013	Amount achieved from 1 January 2013 until 31 December 2020	Amount achieved from 1 January 2021
	-	2017 - 87 tCO_2e (01/10-31/12) 2018 - 426 tCO_2e (01/01-31/12) 2019 - 434 tCO_2e (01/01-31/12) 2020 - 361 tCO_2e (01/01-30/09) 436 tCO_2e (annual average achieved) 1,308 tCO_2e (total for	-

		36 months)	
Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the PDD	2017 - 137 tCO_2e (01/10-31/12) 2018 - 548 tCO_2e (01/01-31/12) 2019 - 548 tCO_2e (01/01-31/12) 2020 - 411 tCO_2e (01/01-30/09) Total: 1644 tCO_2e (36 Months) Annual Average: 548 tCO_2e		

SECTION A. Description of project activity

A.1. General description of project activity

The project is a micro scale photovoltaic (PV) energy system project with a capacity of 500 kW in the provincial boundaries of İzmir.

As per the Turkish regulations; renewable energy generation plants having a capacity of 1MWe or less are not obliged to obtain a generation license from the EMRA (Energy Market Regulatory Authority).

A total of some 926.576 MWh of electricity is estimated to be generated annually. A portion of the generated electricity was intended to meet the energy demand for irrigation pumps which serve for a nearby olive grove consisting of 30,000 trees. However since the direct transmission of electricity from project site to the irrigation site is not possible due to technical reasons all of the generated electricity is fed to the national grid. In order to increase the efficiency of the plant, part of electricity is used for plant's electricity needs and this amount is deducted from the monthly gross generation (i.e. watchman's house, security camera, and water treatment). Remaining electricity is sold to the state within the framework of renewable energy incentives according to which the government commits to buy the any amount of excess electricity produced on a certain tariff (13.3 C$/kWh for solar systems). The revenues from the electricity sales are again be used for the purpose of planting more trees with an estimation of 40,000 trees/year. During this monitoring period, 1,308 tCO2 emission reduction was accomplished in total and yearly average was 436 tCO2. Corresponding actual electricity generation is 2,211,245.448 kWh in total and 737,082 kWh annually.

In addition since the project technology is solar panels there is no fossil fuel usage which may cause project emissions under project activities. Also, project capacity were operated in an efficient way to reduce greenhouse gas emissions due to electricity productions.

The project also aims to provide a model for the regional industrial and commercial facilities, encouraging them to utilize the unused areas of their buildings or lands to generate electricity.

The milestones of the Project are shown in Table 1.

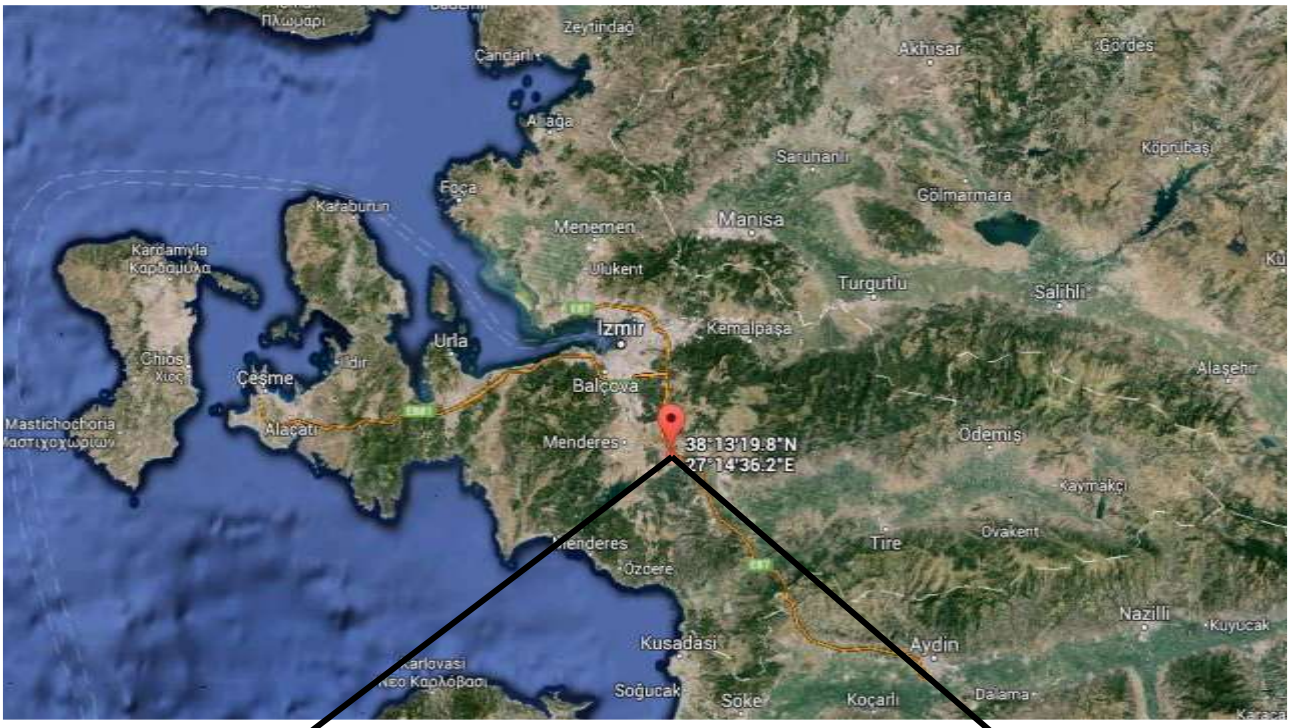
Milestones	Date
EIA Exemption	27/02/2013
Connection Agreement	02/09/2013
Board Decision for Consideration of Carbon Revenue	20/11/2013
Solar PV Supply Agreement*	25/12/2013
Commissioning Date (Provisional Acceptance)	31/07/2014
Start Date of Crediting Period	01/08/2014
Observer's Visit	25/12/2014
Stakeholder Feedback Round	06/03/2015 - 10/05/2015
Registration Date	27/05/2015

1st Monitoring Period	01/08/2014 - 31/08/2015
2nd Monitoring Period	01/10/2017 – 30/09/2020

*Project start date

A.2. Location of project activity

The project is located in the western Turkey within the provincial borders of İzmir. The project site lies within the district known as Pancar – Menderes of İzmir province.



Project Location	
Latitude	38°13'19.8" N
Longitude	27°14'36.2" E

Province	İzmir
Town / District	Pancar - Menderes

Reference of Project Location: Registered PDD of the Project dated as 25/05/15

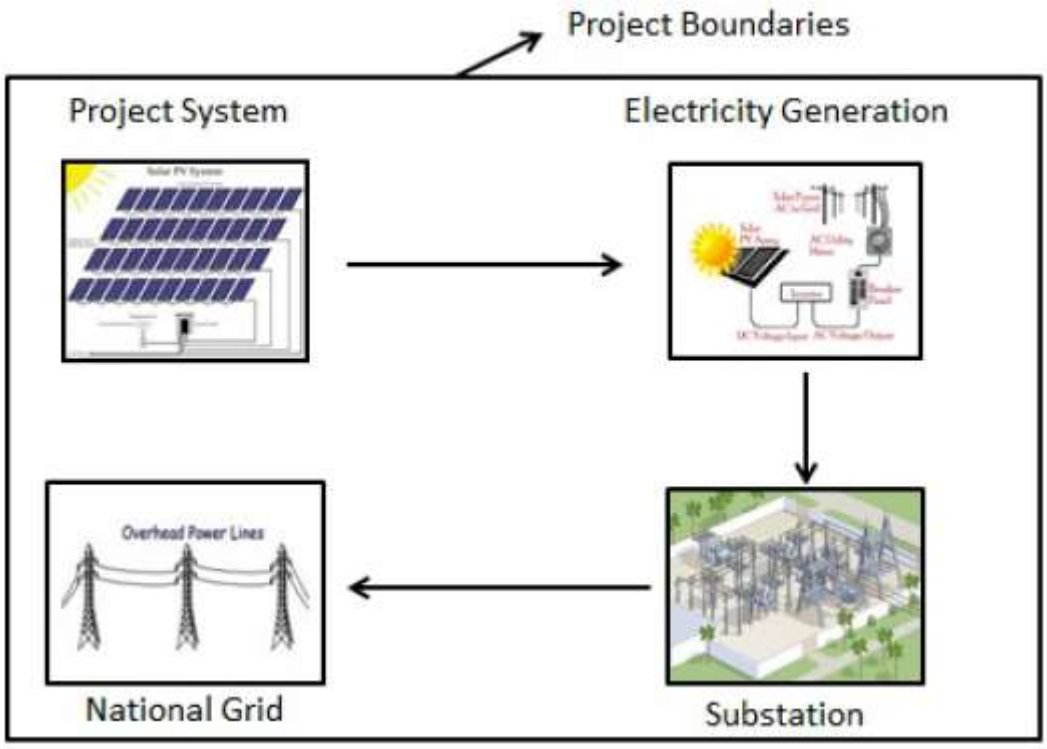


Figure. Project boundaries

A.3. Parties and project participants

Parties involved	Project participiants	Indicate whether the Party involved wishes to be considered as project participant (yes/no)
Turkey	1- Ege Orman Vakfı İktisadi İşletmesi (The Aegean Forest Foundation, EGEVAK) (Project Owner)	No
Turkey	2- GTE Karbon Sürdürülebilir Enerji Eğitim Danışmanlık Ve Ticaret Anonim Şirketi (GTE Carbon) (Project Developer)	No

A.4. Reference to applied methodology and standardized baseline

The proposed project applies the approved small scale CDM methodology;

AMS-I.D.: Grid connected renewable electricity generation --- Version 17.0

The above methodology refers to the following tools:

- Tool to calculate project or leakage CO_2 emissions from fossil fuel combustion, version 02
- Tool to calculate the emission factor for an electricity system, version 04.0

A.5. Crediting period type and duration

The Project uses two times renewable crediting periods. (7 years, 0 months)

This is the first crediting period. (01/08/2014 – 31/07/2021)

Start date and length of the crediting period corresponding of this monitoring period:

01/10/2017 – 30/09/2020 (36 months)

SECTION B. Implementation of project activity

B.1. Description of implemented project activity

The project won an IZKA grant. EGEVAK has filled in a very detailed application file, submitted documentation about the economic feasibility, purchased a land and proven the sustainability of the financial and social aspects of the solar plant. Project site lies on a land 118m above the sea level. Proposed site of installation occupies an area of 9000m2 and the assessments on the subject land yielded that the terrain is conveniently plane but not suitable for agricultural activities (Registered PDD page 6 and 20).

Solar panels are designed to absorb the sun's rays as a source of energy for generating electrical energy. In order to harness the sunlight in the most efficient way; collector angling studies have been performed and the optimum inclination has been tested.

The applied technology involves using 2,000 collector panels which make use of crystal silicon modules and the below table summarizes the main system parameters:

Number of Collectors	2,000
Collector Capacity (Each)	250 W
Total Capacity	500 kW
Collector Efficiency	15%
Inverter Efficiency	98%
Transmission Losses	1.5%
Other Losses (Temperature, Shadowing, Dust etc.)	10%
Overall System Efficiency	13%

Main components of the applied technology are listed below:

1- Photovoltaic Module:
The project makes use of crystal silicon modules technology (c-Si)

2- Inverter:
Inverter is used to convert the direct current (DC) to alternative current (AC). Project has implemented SMA Sunny Tripower inverters (STP 17,000TL).

3- Electrical connection components:
These components consist of electrical cabling, connection jacks, cable tray, DC collection pane, DC brake, AC cable, AC field pane, metering devices, grounding and lightning protection systems

4- Transformer room:
A cabinet is constructed, in which the inverters are placed and high voltage line is connected to the distribution hub.

5- Holder Mechanic Construction Components:
Structure is made of stainless materials and shadowing effect is taken into account when placing the holders.

6- Data Monitoring/Archiving Equipment:
Computerized monitoring system is integrated to the generation equipment. Hourly, daily and monthly inputs/outputs are monitored and recorded in real time. Any failure during operation is notified by the system over the internet and remote monitoring of operation parameters such as module and environment temperature or light intensity is possible.

B.2. Post-registration changes

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

>>
Project applied deviation for the remote site visit (for three years monitoring period) for this monitoring report and deviation was approved by GS. Related document was also provided to DOE. Related deviation decision date is 27/01/2021.

B.2.2. Corrections

N/A

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

>>
N/A

B.2.4. Inclusion of a monitoring plan

>>

N/A

B.2.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

>>
Electricity generated by the Project activity is transferred to the Gediz Elektrik Dağıtım A.Ş. and this company shared invoices with The Aegean Forest Foundation contained information on net electricity generation. Hence, for the emission reduction calculations, the data belonged to these invoices are used instead of PMUM records as mentioned in registered PDD. In fact, PMUM records were changed by EPIAS records by government for a long time ago and; moreover, since this project export its generated electricity directly to the distribution company due to its capacity (capacity of the project is not enough to export the electricity to national grid via transmission line) the invoices are prepared by distribution company who is Gediz Elektrik Dağıtım A.Ş. instead EPIAS. Details are present in emission reduction calculation excel document.

B.2.6. Changes to project design

>>
There are no permanent changes in design

B.2.7. Changes specific to afforestation or reforestation project activity

>>This project is not an afforestration or reforestration project.

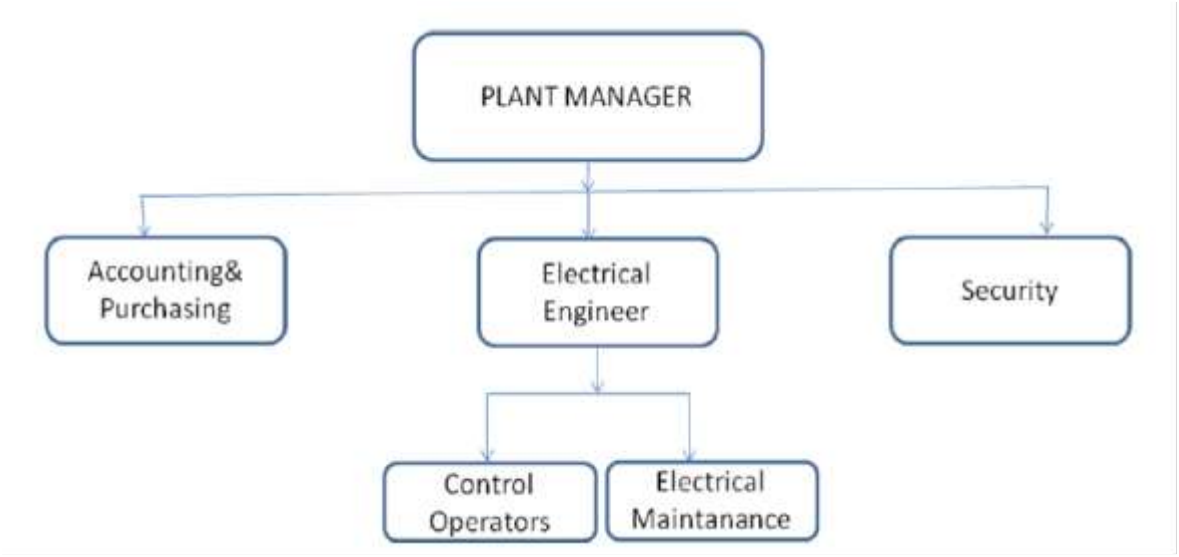
SECTION C. Description of monitoring system

Monitoring plan is applied according to the selected methodology (AMS-I.D). According to the applied methodology, all data collected as part of monitoring was archived electronically and be kept at least for 2 years after the end of the last crediting period. Essential parameters were

monitored if not indicated otherwise in the tables below. All measurements were conducted with calibrated measurement equipment according to the relevant standards.

The results of the readings are saved electronically and made available by TEIAS via official website. Invoicing is based on the data published on the website.

The monitoring system organization chart is shown in Figure below, in which the authority and responsibility of project management are defined.



Plant Manager: Responsibility for running the plant and compliance with VER monitoring plan. Electrical engineers or technicians are assisting the plant manager through controlling and electrical maintenance of PV panels, inverters and other routine jobs required to operate the plant. Maintenance and cleaning of the panels is also under responsibility of the plant manager. Service will be procured for maintenance if needed.

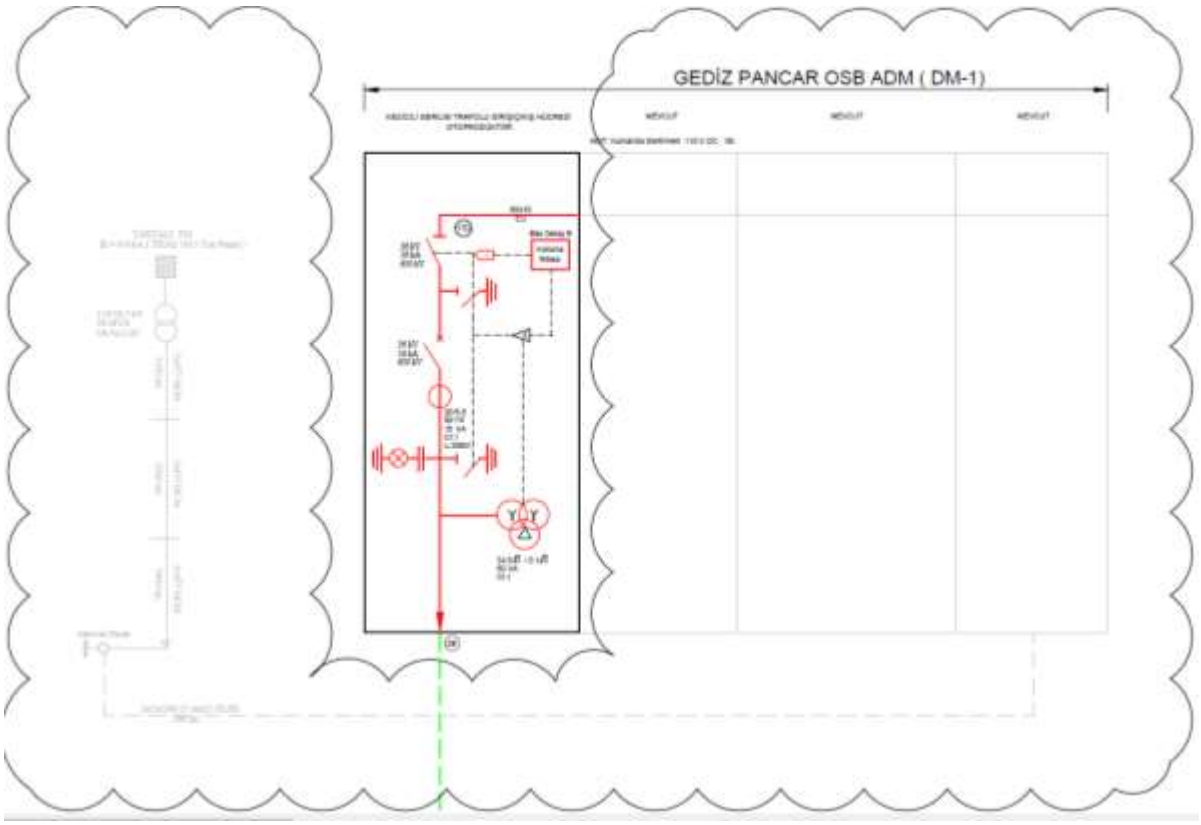
Accounting Manager: Responsible for keeping data about generation and consumption.

GTE Carbon: Responsible for emission reduction calculations, preparing monitoring report and periodical verification process.

Installation of meter and data monitoring has been carried out according to the regulations by TEIAS. As per the local regulations, meters should not require calibration at least ten years[1] Two metering devices were used for monitoring the electricity generated by the power plant. Readings have been done by using main metering devices and spare metering device was used for comparison only. Measurement results were cross checked with records for sold electricity (e.g. invoices/receipts).

Electricity generated by the Project activity is transferred to the Gediz Elektrik Dağıtım A.Ş. and this company shared invoices with The Aegean Forest Foundation contained information on net electricity generation. Hence, for the emission reduction calculations, the data belonged to these invoices are used. Details are present in emission reduction calculation excel document.

[1] https://www.resmigazete.gov.tr/eskiler/2016/06/20160629-22.htm



Single Line Diagram

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante

Data/parameter:	$EF_{CO2,2012}$
Unit	t CO_2e/kWh
Description	CO_2 emission factor of the grid electricity in year *2012*
Source of data	Latest TEIAS (National Energy Transmission Company) statistics and capacity report published on January 2014 based on the data from the year 2012, have been used.
Value(s) applied	0.000592

Justification of the choice of data or description of measurement methods and procedures actually applied:	A combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) according to the procedures prescribed in the "Tool to calculate the Emission Factor for an electricity system , version 4.0"
Any comment:	-

D.2. Data and parameters monitored

Data/parameter:	**$EG_{facility,y}$**
Unit	MWh/y
Description	Quantity of net electricity supplied to the grid in year y
Measured/calculated/default	Calculated
Source of data	Energy meter readings were used
Value(s) of monitored parameter	$EG_{facility,2017}$ (3 months) = 147,352.850kWh = 147.352 MWh $EG_{facility,2018}$ (12 months) = 719,720.315 kWh = 719.720 MWh $EG_{facility,2019}$ (12 months) = 734,156.053 kWh = 734.156 MWh $EG_{facility,2020}$ (9 months) = 610,016.230 kWh = 610.016 MWh Total : 2,211,245.448 kWh = 2,211.245 MW
Monitoring equipment	Specifications of the metering devices are as follows: Manufacturer / Device Model / Serial Number / Last Calibration / Accuracy Class KÖHLER (main) / AEL.TF.21 / 21000204 / 01.11.2013 / 0.5 S KÖHLER (back-up) / AEL.TF.21 / 13000816 / 01.11.2013 / 0.5 S Calibration tests were performed 01.11.2013 Results are presented in the calibration document and calibration documents seen by DOE and GS Team during the first monitoring period which is already issued.
Measuring/reading/recording frequency:	Continuous measuring and monthly recording
Calculation method (if applicable):	Generation data is recorded by two metering devices continuously whose information given above. These records provide the data for the monthly invoicing to Gediz Elektrik A.Ş. ..

QA/QC procedures:	Maintenance and calibration of the metering devices made by TEIAS periodically. In case of significant difference between three devices, maintenance are done before waiting for periodical maintenance according to regulations of TEIAS. As per the local regulations, meters should not require calibration at least ten years[2]. Calibration tests for the project were performed 01.11.2013 and so valid till 31.10.2023. Additionally, the project owner had another calibration done on the basis of the main meter in 15/11/2021, depending on his own desire. the said calibration document was shared with the auditor.
Purpose of data:	Calculation of baseline emissions or baseline net GHG removals by sinks
Additional comments:	-

During the remote site visit (DOE representative was joined to remote site visit also), there were interviews with local stakeholders on web-cam. Local stakeholders did not mention about any negative issue within project. Related explanations are also added to MR.

D.3. Implementation of sampling plan

>> N/A

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

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

>>

Baseline emissions include only CO_2 emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity and calculated as follows:

$$\mathbf{BE_y = (EG_{facility,y} - EG_{baseline}) * EF_{grid,CM,y}}$$

Where:

BE_y = Baseline emissions in year y (tCO_2/yr)
$EG_{facility,y}$ = Electricity supplied by the project activity to the grid (MWh)
$EG_{baseline}$ = Baseline electricity supplied to the grid in the case of modified or retrofit facilities (MWh). For new power plants this value is taken as zero
$EF_{grid,CM,y}$ = Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest available version of the "Tool to calculate the emission factor for an electricity system"

Realized baseline emissions
$EF_{grid,CM,y}$ =592 tCO_2/GWh

$EG_{facility,2017}$ (3 months) = 147.352 MWh
$EG_{facility,2018}$ (12 months) = 719.720 MWh
$EG_{facility,2019}$ (12 months) = 734.156 MWh
$EG_{facility,2020}$ (9 months) = 610.016 MWh

BE_{2017} = (0.147352 GWh) x (592 tCO_2/GWh) = 87 tCO_2e
BE_{2018} = (0.719720 GWh) x (592 tCO_2/GWh) = 426 tCO_2e

[2] https://www.resmigazete.gov.tr/eskiler/2016/06/20160629-22.htm

BE_{2019} = (0.734156 GWh) x (592 tCO_2/GWh) = 434 tCO_2e
BE_{2020} = (0.610016 GWh) x (592 tCO_2/GWh) 361 tCO_2e

TOTAL: 1,308 tCO_2e (round down value)

Since the project is a Greenfield project, $EG_{baseline}$ is considered zero.

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

>> The project activity involves the generation of electricity using solar energy therefore project activity does not result in greenhouse gas emissions.

PE_y = 0

E.3. Calculation of leakage emissions

>> The energy generating equipment is not transferred from or to another activity. Therefore leakage is also considered as “0”.

LE_y = 0

Emission reductions are calculated as follows:

$ER_y = BE_y - PE_y - LE_y$

Where:

ER_y = Emission reductions in year y (t CO_2e/yr)
BE_y = Baseline emissions in year y (t CO_2e/yr)
PE_y = Project emissions in year y (t CO_2/yr)
LE_y = Leakage emissions in year y (t CO_2/yr)

ER_y = 1,308 – 0 – 0 = 1,308 tCO_2e

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

Item	Baseline emissions or baseline net GHG removals (t CO_2e)	Project emissions or actual net GHG removals (t CO_2e)	Leakage (t CO_2e)	GHG emission reductions or net GHG removals by sinks (t CO_2e) achieved in the monitoring period			
				Before 01/01/2013	From 01/01/2013 until 31/12/2020	From 01/01/2021	Total amount
Total	1,308	0	0	-	1,308	-	1,308

E.5. Comparison of calculation of "amount estimated ex-ante for this moniyoring period in the PDD"

Amount achieved during this monitoring period (t CO_2e)	Amount estimated ex ante for this monitoring period in the PDD (t CO_2e)
2017 - 87 tCO_2e (01/10-31/12) 2018 - 426 tCO_2e (01/01-31/12) 2019 - 434 tCO_2e (01/01-31/12) 2020 - 361 tCO_2e (01/01-30/09) 436 (annual average achieved) 1,308 (total for 36 months)	2017 - 137 tCO_2e (01/10-31/12) 2018 - 548 tCO_2e (01/01-31/12) 2019 - 548 tCO_2e (01/01-31/12) 2020 - 411 tCO_2e (01/01-30/09) 548 (annual estimated value) 1,644 (estimated for 36 months)

E.5.1 Explanation of calculation of "amount estimated ex ante for this monitoring period in the PDD"

Emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y	Emission reductions in year y (tCO_2e)
BE_y	Baseline emissions in year y (tCO_2e)
PE_y	Project emissions in year y (tCO_2)
LE_y	Leakage emissions in year y (tCO_2)

Baseline emissions include only CO_2 emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity and calculated as follows:

$$\mathbf{BE_y = (EG_{facility,y} - EG_{baseline}) * EF_{grid,CM,y}}$$

Where:

BE_y = Baseline emissions in year y (tCO_2/yr)
$EG_{facility,y}$ = Electricity supplied by the project activity to the grid (MWh)
$EG_{baseline}$ = Baseline electricity supplied to the grid in the case of modified or retrofit facilities (MWh). For new power plants this value is taken as zero
$EF_{grid,CM,y}$ = Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest available version of the "Tool to calculate the emission factor for an electricity system"

The project activity involves the generation of electricity using solar energy therefore project activity does not result in greenhouse gas emissions.

$\mathbf{PE_y} = 0$

The energy generating equipment is not transferred from or to another activity. Therefore leakage is also considered as “0”.

$\mathbf{LE_y = 0}$

E.6. Remarks on increase in achieved emission reductions

Estimated and realized emission reduction amounts are quite in agreement. Solar energy is believed to be very consistent in the long term but might show little deviations in the monthly figures. Generated electricity is directly affected by the sunlight and seasonal effects. Therefore estimated and actual achieved emission reduction values could be acceptable The estimated emission reductions corresponding to 36 months have been calculated as 1,644 tCO_2e. In the current monitoring period between 01/10/2017 and 30/09/2020 the realized emission reductions have been observed to be 1,308 tCO_2e, and this value is below the expected amount. The deviation from the estimations was found to be 20% lower than the estimated amount. This was due to sunlight and seasonal effects. No major failure or operational breakdown has been experienced during this monitoring period.

E.7. Remarks on micro scale project activity

According to the written and signed statement of the authorized headman (mukhtar) in the region where the project is located, there was no negative situation arising from the project during this monitoring period and no complaints were received about the project. Related signed declaration was provided to DOE.

There is no additional information to add this section. Necessary information and justifications are given in Section E.6

Appendix 1. Contact information of project participants and responsible persons/entities

Project participant and/or responsible person/ entity	☒ Project participant ☐ Person/entity responsible for completing the CDM-MR-FORM
Organization name	The Aegean Forest Foundation (EGEVAK)
Street/P.O. Box	Şair Eşref Bul.
Building	Huzur İş Hanı No:27/2
City	İzmir
State/region	Konak
Postcode	35260
Country	Turkey
Telephone	+90 232 464 51 60
Fax	+90 232 464 50 73
E-mail	egeorman@egeorman.org.tr
Website	http://www.egeorman.org.tr
Contact person	
Title	Vice General Manager
Salutation	Mrs
Last name	Bilgili
Middle name	
First name	Yasemen
Department	Management
Mobile	+90 533 305 34 17
Direct fax	+90 232 463 80 80
Direct tel.	+90 232 463 80 80
Personal e-mail	yasemen.bilgili@egeorman.org.tr

Project participant and/or responsible person/ entity	☒ Project participant ☒ Person/entity responsible for completing the CDM-MR-FORM
Organization name	GTE Carbon
Street/P.O. Box	Mustafa Kemal Mahallesi, 2118. Cadde
Building	Maidan Plaza, C Blok, No: 42
City	Ankara
State/region	-
Postcode	06520
Country	Turkey
Telephone	+90 312 472 35 00
Fax	+90 312 472 33 66
E-mail	gte@gte.com .tr
Website	www.gte.com.tr
Contact person	
Title	Director
Salutation	Mr.
Last name	Demirkol
Middle name	Kemal
First name	Mehmet
Department	Management
Mobile	-
Direct fax	(+90) 312 472 33 66
Direct tel.	(+90) 312 472 35 00 - 19
Personal e-mail	kemal@gte.com.tr

Appendix 2. Monitoring of Sustainable Development Parametres

Data/parameter:	**Air Quality**
Unit	tons
Description	SO_2 and NO_x Emissions
Measured/calculated/default	Calculated
Source of data	Electricity generation records of project and National Inventory of Turkey[3].
Value(s) of monitored parameter	In parallel to the electricity generation, actual SO2 emission reduction has been realized as about 1.55 tons during monitoring period. NOx emission reduction corresponding to actual electricity generation is calculated as 2.99 ton.
Monitoring equipment	-
Measuring/reading/recording frequency:	Annual
Calculation method (if applicable):	-
QA/QC procedures:	-
Purpose of data:	Monitoring of sustainable development parameters
Additional comments:	Electricity generated by solar power, NO_x and SO_2 emission data from GHG inventory of Turkey and TEIAS statistics for yearly national electricity data was used as reference in calculation of the emission reductions.

Data/parameter:	**Livelihood of poor**
Unit	Number
Description	Number of people receiving social security system through a contract
Measured/calculated/default	By reviewing of social security documents
Source of data	Project owner
Value(s) of monitored parameter	Plant is operational and started supplying social security payments for the employees. Social Security List that employees are belonged to this project is provided to DOE with this document. Details such as name of the employees are not given in this document due to related privacy of personality regulation of Republic of Turkey. Employee / Position Employee 1 / Electrical Engineer, Technical Officer Employee 2 / Watchman
Monitoring equipment	-
Measuring/reading/recording frequency:	Annual
Calculation method (if applicable):	-

[3] http://unfccc.int/files/national_reports/annex_i_ghg_inventories/national_inventories_submissions/application/zip/tur-2013-crf-12apr.zip

QA/QC procedures:	-
Purpose of data:	Monitoring of sustainable development parameters
Additional comments:	-

Data/parameter:	**Quality of Employment**
Unit	Number
Description	Number of certificates issued/trainings provided.
Measured/calculated/default	By reviewing of training certificates or training logs
Source of data	Project owner
Value(s) of monitored parameter	There were two employees who were trained and details of training hours and dates are given table below.

Attendee	**Subject**	**Issuance Date/Training Duration**
Employee 1 and Employee 2	HSE	16 hours in 08/2017, 12 hours in 29-30/03/2018, 24/12/2018
Employee 1and Employee 2	Automatic Fire Sensing and Extinguishing Panel Use	08/09/2015; 11/09/2015, -25/04/2016-2017-18/10/2018-2019 and 02/06/2020 certificates are provided with this document

Monitoring equipment	-
Measuring/reading/recording frequency:	-
Calculation method (if applicable):	-
QA/QC procedures:	-
Purpose of data:	Monitoring of sustainable development parameters
Additional comments:	-

Data/parameter:	**Biodiversity**
Unit	Number
Description	Number of affected mammals and birds
Measured/calculated/default	Measured/monitored via site visit
Source of data	Project owner
Value(s) of monitored parameter	None. Plant is operational and fences are used around the project site. There is no gap on fences which may cause risk for animals. In addition there was no any harm on birds due to panels. In addition, mukhtar of the nearest village did not propose any negative comment in terms of risk on biodiversity due to his observations during the remote site interview.
Monitoring equipment	-
Measuring/reading/recording frequency:	Annual
Calculation method (if applicable):	-
QA/QC procedures:	
Purpose of data:	Monitoring of sustainable development parameters

Additional comments:	Project site fences are checked regularly if there is any gap or broken sections. Collector panels are observed to make sure they do not harm birds. In addition, according to the written and signed statement of the authorized headman (mukhtar) in the region where the project is located, there was no negative situation arising from the project during this monitoring period and no complaints were received about the project. Related signed declaration was provided to DOE.

Data/parameter:	**Quantitative employment and income generation**
Unit	-
Description	Created employment opportunities
Measured/calculated/default	By reviewing of employment list
Source of data	Project owner
Value(s) of monitored parameter	There are two employees employed by the Project. Social Security List that employees are belonged to this project is provided to DOE with this document. Details such as name of the employees are not given in this document due to related privacy of personality regulation of Republic of Turkey.
Monitoring equipment	-
Measuring/reading/recording frequency:	Annual
Calculation method (if applicable):	-
QA/QC procedures:	-
Purpose of data:	Monitoring of sustainable development parameters
Additional comments:	-

Data/parameter:	**Water quality and quantity**
Unit	-
Description	Appropriate disposal of waste water
Measured/calculated/default	Assessing disposal methods during site visits and checking waste water disposal records.
Source of data	Project owner
Value(s) of monitored parameter	Since project has just one employee on project site (in years 2019 and 2020) there was negligible amount of domestic wastewater generated and collected in cesspool and transmitted to authorized municipal vehicles
Monitoring equipment	-
Measuring/reading/recording frequency:	Annual
Calculation method (if applicable):	-
QA/QC procedures:	-
Purpose of data:	Monitoring of sustainable development parameters
Additional comments:	There was no wastewater transfer through this monitoring period

Document information

Version	*Date*	*Description*
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement.
04.0	25 June 2014	Revisions to: • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from *F-CDM-MR* to *CDM-MR-FORM*; • Editorial improvement.
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01	28 May 2010	EB 54, Annex 34. Initial adoption.

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