

TEMPLATE

KEY PROJECT INFORMATION & PROJECT DESIGN DOCUMENT (PDD)

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VERSION **v. 1.2**

RELATED SUPPORT

- TEMPLATE GUIDE Key Project Information & Project Design Document v.1.2

This document contains the following Sections

Key Project Information

SECTION A –Description of project

SECTION B - Application of approved Gold Standard Methodology (ies) and/or demonstration of SDG Contributions

SECTION C– Duration and crediting period

SECTION D – Summary of Safeguarding Principles and Gender Sensitive Assessment

SECTION E – Outcome of Stakeholder Consultations

Appendix 1 – Safeguarding Principles Assessment (mandatory)

Appendix 2 - Contact information of Project participants (mandatory)

KEY PROJECT INFORMATION

GS ID of Project	906
Title of Project	Canakkale WPP
Time of First Submission Date	15/10/2021
Date of Design Certification	1 st Crediting period: 03/08/2012 2 nd Crediting period: 15/03/2021 3 rd Crediting period:
Version number of the PDD	V3
Completion date of version	30/01/2025
Project Developer	Enerjisa Enerji Üretim A.Ş.
Project Representative	SILA DURAN sila@sekansdanismanlik.com Sekans Danışmanlık
Project Participants and any communities involved	1. Enerjisa Enerji Üretim A.Ş. 2. Sekans Danışmanlık
Host Country (ies)	TURKEY
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Scale of the project activity	☐ Micro scale ☐ Small Scale ☒ Large Scale
Other Requirements applied	-
Methodology (ies) applied and version number	ACM0002: Grid-connected electricity generation from renewable sources --- Version 22.0

Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A
Project Cycle:	☒ Regular ☐ Retroactive

Table 1 – Estimated Sustainable Development Contributions

Sustainable Development Goals Targeted	SDG Impact (defined in B.6.)	Estimated Annual Average	Units or Products
13 Climate Action	Emission Reductions	57,542	VERs
SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all	MWh of renewable energy generated	91,570.00	MWh
SDG 8 Decent Work and Economic Growth	Employee	15	Number of employees

SECTION A. DESCRIPTION OF PROJECT

A.1 Purpose and general description of project

Enerjisa Enerji A.Ş. built the Canakkale Wind Power Plant (Canakkale WPP) with an installed capacity of 29.9 MW in Çanakkale Province of Turkey. Canakkale WPP is connected to the substation at the natural gas fired power plant operated by the project owner, then to the grid via 154 kV Çan electricity transmission line. The Project Proponent has been granted a 49-year generation licence by the Turkish Energy Market Regulatory Authority for the proposed Project under the provisions of Law No. 4628 governing the electricity market in the Republic of Turkey.

The total installed capacity of the project is 29.9 MW, consisting of thirteen Siemens SWT-101 turbines, each with an output of 2.3 MW. The estimated power supply to the grid of 91,570.00 MWh of net electricity generation per annum.

The purpose of the Project is to produce renewable electricity using wind as the power source and to contribute to Turkey's growing electricity demand through a sustainable and low carbon technology. The project will displace the same amount of electricity generated by the grid dominated with fossil fired power plants. The annual emission reduction estimated by the project is 57,542 tonnes of CO₂.

The project was operational on 11/02/2011¹ and registered on 03/08/2012 under the Gold Standard Registry with the registration number GS906.

The project will produce 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,
- 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.

A.1.1 Eligibility of the project under Gold Standard

The project activity meets the eligibility criteria according to section 3.1.1 of GS4GG Principles & Requirements document as below.

- The project applies methodology ACM0002 Version 22.0, which is an approved methodology under Gold Standard.
- The project type is wind and an eligible project type as per the 1.1. Eligible Project Types & Scope under Renewable Energy Activity Requirements.
 - (a) Project shall generate and deliver energy services (e.g., mechanical work/electricity/heat) from non-fossil and renewable energy sources
 - (b) Project shall comprise of renewable energy generation units, such as photovoltaic, tidal/wave, wind, hydro, geothermal, waste to energy and renewable biomass.
- The project activity results in displacement of electricity from thermal power stations while contributing to sustainable development of Turkey. Hence, the project contributes to the Gold Standard Vision and Mission.
- Wind is an approved project type.
- Project is not included in any other voluntary or compliance standards programme. The existing 29.9 MW capacity is not included in IREC.²

General Eligibility Criteria

- Type of project: Wind
- Location of project: The project is located in Çanakkale Province, Turkey. Therefore, the project is eligible.
- Project Area, Boundary and Scale: The registered project activity is 29.9 MW as large scale.
- Project activity is in compliance with Host Country's legal, environmental, ecological and social regulations.
- Contact details of the project owner can be found in Appendix 2.

² Signed declaration by the PO is available to the VVB.

- The legal owner of the products is ENERJİSA ENERJİ ÜRETİM A.Ş.
- The Official Development Assistance (ODA) Declaration was also signed by the Project Developer.

The project activity meets additional requirements:

Principle 1- Contribution to Climate Security & Sustainable Development as contributing to SDG 7, 8 and 13.

Principle 2 – Safeguarding Principles (Please see Appendix 1)

Principle 3 – Stakeholder Inclusivity as Stakeholder Consultation Processes was already implemented, and grievance mechanism is already in place.

Principle 4 – Demonstration of Real Outcomes as the Tool “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period” has already been applied.

Principle 5 – Financial Additionality & Ongoing Financial Need (Please see section B.5.2)

A.1.2 Legal ownership of products generated by the project and legal rights to alter use of resources required to service the project

Enerjisa Enerji Üretim A.Ş.

A.2 Location of project

The Çanakkale Wind Power Plant is located between Üvecik Village and Mahmudiye Town of Çanakkale Province, in Marmara Region of Turkey.

Table 2 - Turbine Coordinates³

³ The Generation License

Turbine #	E	N
T1	433141	4414154
T2	433435	4414261
T3	433739	4414308
T4	434019	4414624
T5	432220	4413490
T6	432626	4413451
T7	432986	4413460
T8	433289	4413317
T9	433558	4413026
T10	433854	4413211
T11	434154	4413253
T12	434422	4412897
T13	434727	4413532



Figure 1. The locations of the turbines in the project area

A.3 Technologies and/or measures

The Project Scenario entails the installation of thirteen Siemens SWT-3.0-101 wind turbines, each having a capacity of 2.3 MW. The turbines are 3 bladed with a horizontal axis. The turbine blades have the ability to change angles according to wind direction. Turbine towers have a hub height of 80 m, and a blade diameter of 101 m. The turbines are connected to the grid via 154 kV electricity transmission line via Birkapılı Hydropower Plant, also operated by the project owner. The metering is being done at substation before electricity is fed into the grid.

The turbines have a predicted life of 20 years from the manufacturer. The wind speeds in the area and predicted capacity factors are within the manufacturer's specifications for this predicted life. The Load Factor was derived from research done by Natural Power and is taken as 35%.

The amount of electricity generated by the project is not influenced by factors outside the project boundary such as other power plants or demand for electricity. Rather, the governing factor is the wind speed at the project site. With regard to the actual operation of the project activity, the first temporary acceptance protocol signed by the Ministry of Energy and Natural Resources is dated 11/02/2011 for the commissioning of the 11 turbines. The second temporary acceptance protocol with the Ministry was signed on 06/05/2011 for the remaining two turbines.

Please see below the technical specifications of the installed turbines of the registered capacity:

Table 3 - Technical specifications of the installed turbines⁴

Model of Turbine	Parameter	Unit	Value
Siemens SWT 101	Rotor Diameter	m	101
	Rated Power	kW	2300

⁴ Please see the registered PDD.

	Rated Wind Speed	m/s	12
	Hub Height	m	80
	Operating wind	m/s	3-25
	Design life	year	20

The baseline scenario has been defined as the generation of the same amount of electricity by the national grid which is dominated by thermal power plants. The main emission source of electricity generation in fossil fuel fired power plants that are connected to National Grid is CO₂ as in baseline scenario. Compared to that baseline scenario, the project activity has positive influences on sustainable development in the region and in Turkey.

The project activity utilizes long-term potential of wind energy, efficient technology to reduce GHG emissions as well as diversifying and increasing security of the local energy supply and contributing to a sustainable development. The project contributes to technology and know-how transfer since the electricity generation technologies in Turkey are currently dominated by fossil fuel power

A.4 Scale of the project

The installed capacity of the project is 29.9 MW which is greater than 15 MW. Therefore, the project activity is large scale.

A.5 Funding sources of project

Private funding and funding from bank. The project activity does not have any public funding or Official Development Assistance (ODA) funding

SECTION B. APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS

B.1. Reference of approved methodology (ies)

Project type: Type I – Renewable Energy Projects

Category: D – Electricity Generation for a System

Methodology: ACM0002: Grid-connected electricity generation from renewable sources-Version 22.0⁵

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

ACM0002 refers to:

- Tool to calculate the emission factor for an electricity system, Version 07.0⁶
- Tool for the demonstration and assessment of additionality, Version 07.0.0⁷
- Tool to calculate project or leakage CO2 emissions from fossil fuel combustion, Version 03.0⁸
- Tool to assess the validity of the original/current baseline and to update the baseline at the renewal of a crediting period”, 03.0.1⁹

B.2. Applicability of methodology (ies)

The methodology ACM0002: Grid-connected electricity generation from renewable sources is applicable to grid-connected renewable power generation project activities that a) install a Greenfield power plant; b) involve a capacity addition to (an) existing plant(s); c) involve a retrofit of (an) existing operating plants/units; d) involve a rehabilitation of (an) existing plant(s)/unit(s); or e) involve a replacement of (an) existing plant(s)/unit(s).

The project activity installs a new power plant at a site where no renewable power plant was operated prior to the implementation of the project activity (greenfield), ACM0002:

⁵ <https://cdm.unfccc.int/UserManagement/FileStorage/R0IJ1X9LQ7W2GOYHSMBFCPE3VKZ685>

⁶ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.pdf>

⁷ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

⁸ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-03-v3.pdf>

⁹ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-11-v3.0.1.pdf>

Grid-connected electricity generation from renewable sources is applicable. The applicability criteria are listed and justified below:

The choice of methodology ACM0002 Version 22.0 is justified as the proposed project activity meets relevant applicability criteria:

Table 4 - Applicability of ACM0002

Applicability Criteria	Justification
This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plants/units; (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s) (f) Install a Greenfield power plant together with a grid-connected Greenfield pumped storage power plant. The greenfield power plant may be directly connected to the PSP or connected to the PSP through the grid.	The project does not involve capacity addition, retrofit of an existing operating plants/unit; involve a rehabiexisting operating plants/unit/unit(s); involve a replacement of (an) existing plant/unit(s) and install a greenfield power plant together with a grid-connected greenfield pumped storage power plant.
In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that:	The project activity does not involve BESS integration.

(a) Integrate battery energy storage systems (BESS) with a Greenfield power plant; (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic or wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); (d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s). (e) Integrate a BESS together with a Greenfield power plant that is operating in coordination with a PSP. The BESS is located at site of the greenfield renewable power plant.	
The methodology is applicable under the following conditions: (a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; (b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal	The project is a wind power plant.

power capacity addition projects) the existing plant/unit must have started commercial operation prior to the start of a minimum historical reference period of five years. The reference period is used for the calculation of baseline emissions and defined in the baseline emission section. Furthermore, no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity; (c) In case of Greenfield project activities applicable under paragraph 5 (a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents); (d) In case of Greenfield project activities applicable under paragraph 7(a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g., by referring to feasibility studies or investment decision documents); (e) The BESS should be charged with electricity generated from the associated renewable energy power plant(s). Only	
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during exigencies 2 may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g., week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period. (f) In case the project activity involves PSP, the PSP shall utilize the electricity generated from the renewable energy power plant(s) that is operating in coordination with the PSP during pumping mode.	
In case of hydro power plants, one of the following conditions shall apply: (a) The project activity is implemented in existing single or multiple reservoirs, with no	The project is a wind power plant.

change in the volume of any of the reservoirs; or (b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m²; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (3), is greater than 4 W/m². (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m², all of the following conditions shall apply: (i) The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/m² ; (ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be: a. Lower than or equal to 15 MW; and	
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b. Less than 10 per cent of the total installed capacity of integrated hydro power project.	
In the case of integrated hydro power projects, project participants shall: (a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.	The project is a wind power plant.
In the case of PSP, the project participants shall demonstrate in the PDD that the project is not using water which would have been used to generate electricity in the baseline.	The project is a wind power plant.
The methodology is not applicable to:	The project does not involve switching from fossil fuels to

(a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; (b) Biomass fired power plants/units.	renewable energy sources and is not a biomass fired power plant.
In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is “the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance”.	The project activity is not a retrofit, rehabilitation, replacement or capacity addition project.

Additionally, the proposed project activity meets applicability criteria of the following tools:

TOOL01: Tool for the demonstration and assessment of additionality, Version 07.0.0	Para 10: Once the additionality tool is included in an approved methodology, its application by project participants using this methodology is mandatory. <i>Since this tool is included in ACM0002, this tool is used.</i>
TOOL07: Tool to calculate the emission factor for an electricity system, Version 07.0	Para 3: This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by

	the grid (e.g., demand-side energy efficiency projects). <i>Project activity that substitutes grid electricity is where a project activity supplies electricity to a grid. There is only one national grid in Türkiye.</i> • Para 4: Under this tool, the emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off-grid power plants. In the latter case, two sub-options under step 2 of the tool are available to the project participants, i.e., option IIa and option IIb. If option IIa is chosen, the conditions specified in "Appendix 1: Procedures related to off-grid power generation" should be met. Namely, the total capacity of off-grid power plants (in MW) should be at least 10 per cent of the total capacity of grid power plants in the electricity system; or the total electricity generation by off-grid power plants (in MWh) should be at least 10 per cent of the total electricity generation by grid power plants in the electricity system; and that factors which negatively affect the reliability and stability of the grid are primarily due to constraints in generation and not to other aspects such as transmission capacity. <i>The emission factor for only grid power plants (off grid power plants are not taken into account) have been used by Turkish Ministry of Energy and Natural Resources to calculate emission factor.</i> • Para 5: In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.
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	<i>Tool restricts use of Tool 07 to non-annex 1 countries but that is for CDM application, thus the Tool 07 can be applied in Türkiye (Annex-1) country. Türkiye especially has special circumstances and did not take any place withing compliance market.</i> • Para 6: Under this tool, the value applied to the CO2 emission factor of biofuels is zero. The calculation of the emission factor does not involve any biofuels. The calculation of the emission factor does not involve any biofuels. <i>In conclusion, Tool 07 is applicable to the project activity.</i>
TOOL03: Tool to calculate project or leakage CO2 emissions from fossil fuel combustion, Version 03.0	• Para 2: This tool provides procedures to calculate project and/or leakage CO2 emissions from the combustion of fossil fuels. It can be used in cases where CO2 emissions from fossil fuel combustion are calculated based on the quantity of fuel combusted and its properties. Methodologies using this tool should specify to which combustion process j this tool is being applied. • Para 42 of ACM0002 – Version 22.0: For all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected. <i>In conclusion, Tool 03 is applicable to the project activity.</i>

TOOL11: Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period" (EB46, Annex 11)	Since CP Renewal of the project activity is executed, this tool has been used. Please see section B.4.
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B.3. Project boundary

According to the ACM0002 - Version 22.0 methodology, the project boundary should include the physical area of the renewable energy facility and its grid connection. The wind power plant with all installation is the project boundary. This boundary includes all direct emission sources and grid connection emission factors in the methodology.

As the electricity generated by the project displaces the electricity generated by national grid, the baseline boundary is defined as the national grid. This includes the project site and all power plants connected physically to the national grid and excludes the off-grid power plants. Please see the diagram below:

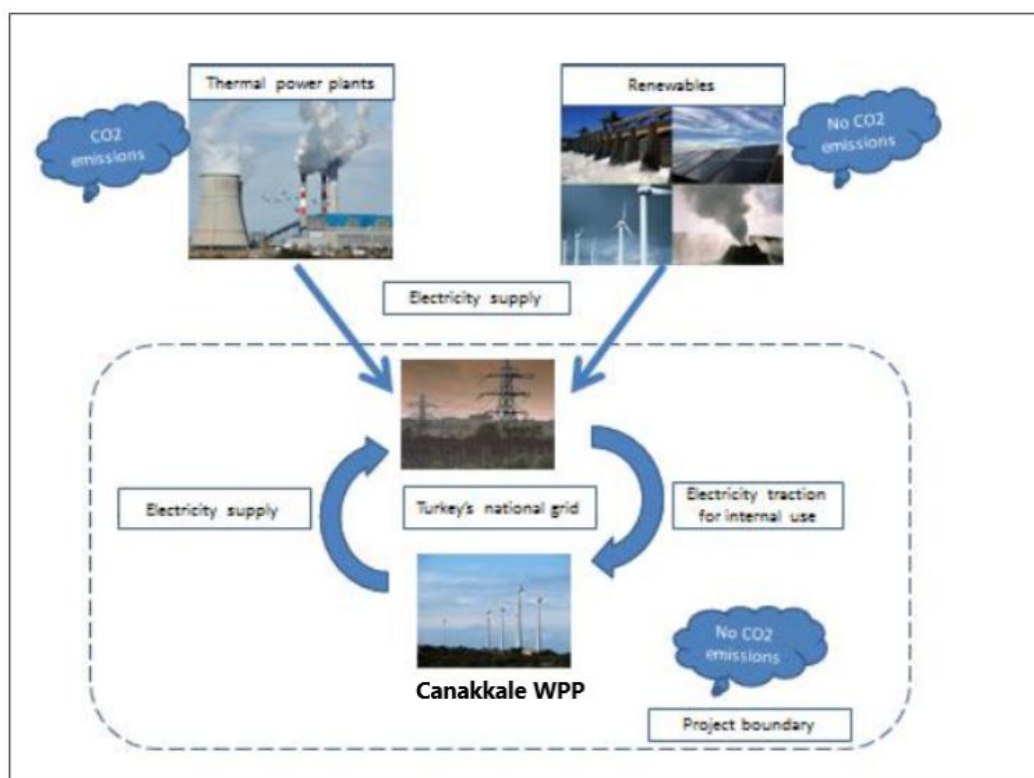


Figure 2. Project Boundary

The greenhouse gases and emission sources included in or excluded from the Project boundary are compiled as below:

Source	GHGs	Included?	Justification/Explanation
Baseline scenario	CO2 emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity	CO2 Yes	Main source. The dominant emissions from power plants are in the form of CO2, therefore CO2 emissions from fossil fuel fired power plants connected to the grid will be accounted for in baseline calculations.
		CH4 No	Minor
		N2O No	Minor
Project scenario	Emissions as a result of Project Activity	CO2 No	Not applicable

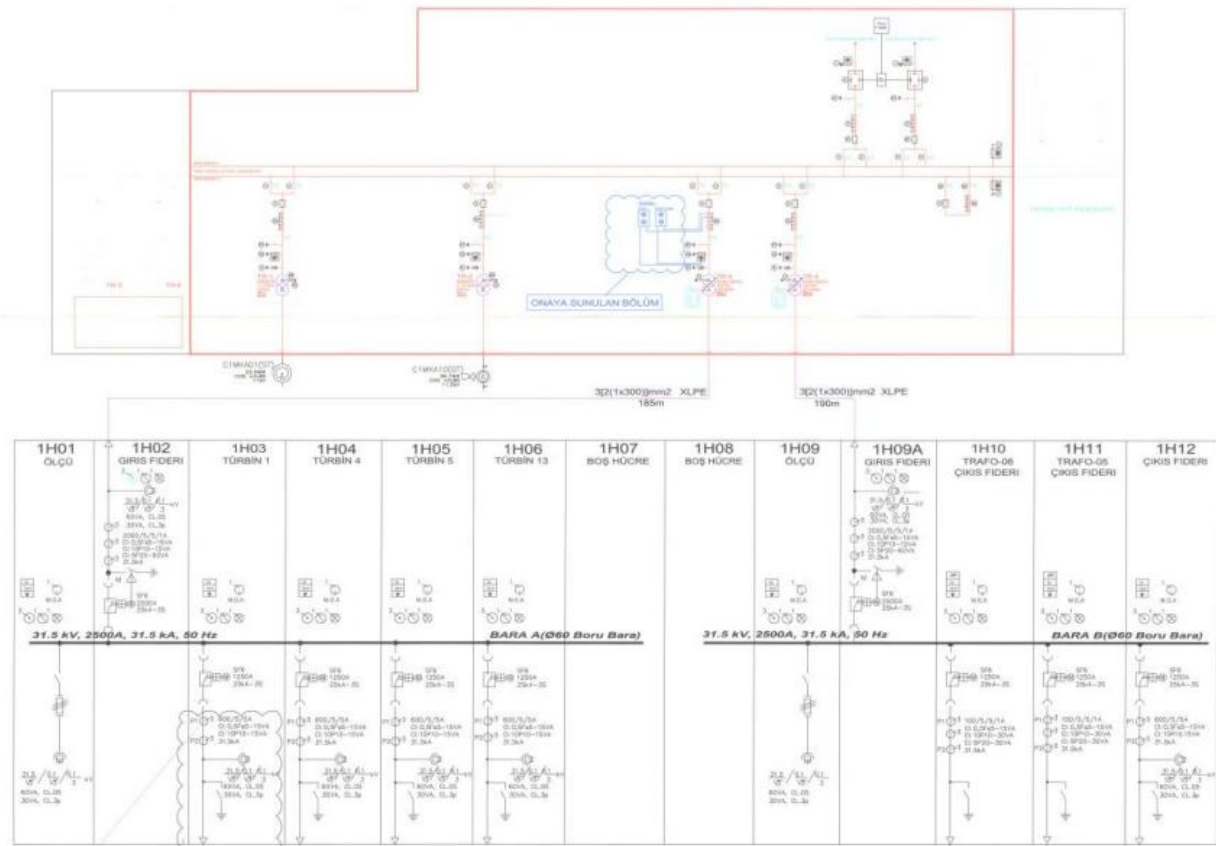


Figure 3. The Single Line Diagram of the Canakkale WPP

B.4. Establishment and description of baseline scenario

According to ACM0002 (Version 22.0), if the project activity is the installation of a new grid connected renewable power plant, the baseline scenario is the electricity delivered to the grid by the project activity that otherwise would have been generated by the operation of grid-connected power plants and by the addition of new generation sources. In line with the tool, "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period", the development of the Turkish energy mix and thus the baseline scenario have been reanalyzed as it may be seen below.

Step 1: Assess the validity of the current baseline for the next crediting period

The current baseline complies with all relevant mandatory national and/or sectoral policies which have come into effect after the submission of the project activity for validation or the submission of the previous request for renewal of the crediting period and are applicable at the time of requesting renewal of the crediting period.

The project activity is in line with the following laws and regulations:

Table 5 - Laws and regulations that the project activity complies with

Legal Framework
Electricity Market Balancing and Settlement Regulation
The repealed Electricity Market Balancing and Settlement Regulation published in the Official Gazette No. 25632 dated 14/04/2009 (Final revision is on 28/2/2023)
The Electricity Market Storage Activities Regulation
Regulation Concerning Electricity Demand Forecast
Communiqué Regarding Connection to and Use of Transmission and Distribution Systems in the Electricity Market
Communiqué Regarding Preparation of Retail Contract in The Electricity Market
Communiqué Concerning Principles and Procedures for Selection in the Existence of More Than One Application for Generation of Electricity from the Same Source and on the Same Region
Communiqué Regarding Regulation of Market Management Revenue
Electricity Transmission System Supply Reliability and Quality Regulation
Electricity Market Grid Regulation
Communiqué Regarding the Principles and Procedures of Financial Settlement In The Electricity Market
Electricity Market Import and Export Regulation
Communiqué Regarding Regulatory Accounting Guidelines
Electricity Market Distribution Regulation
Communiqué Regarding the Meters to be used in the Electricity Market
Communiqué Regarding Wind and Solar Measurements
Electricity Market Customer Services Regulation
Electricity Market Eligible Consumer Regulation
Electricity Market License Fees
Electricity Market Tariffs Regulation
Electricity Market Licensing Regulation
Electricity Market Law
Other relevant laws:
Law on Utilization of Renewable Energy Resources for the Purpose of Generating Electricity Energy (Nr. 5346)
Energy Efficiency Law (Nr. 5627)
Forest Law (Nr. 6831)
Environment Law (Nr. 2827)

Step 1.2: Assess the impact of circumstances

As it may be seen in Figure 4, the development of Türkiye's installed capacity by primary energy resources between the years 2013-2023¹⁰, the electricity generation has mainly been done by fossil fuel fired power plants in Türkiye. Total Installed electricity generation capacity in Türkiye has reached 110,914 megawatts (MW) as of 2023. Having a share of 28.82%, hydro power projects have an installed capacity of 31,962.4 MW.

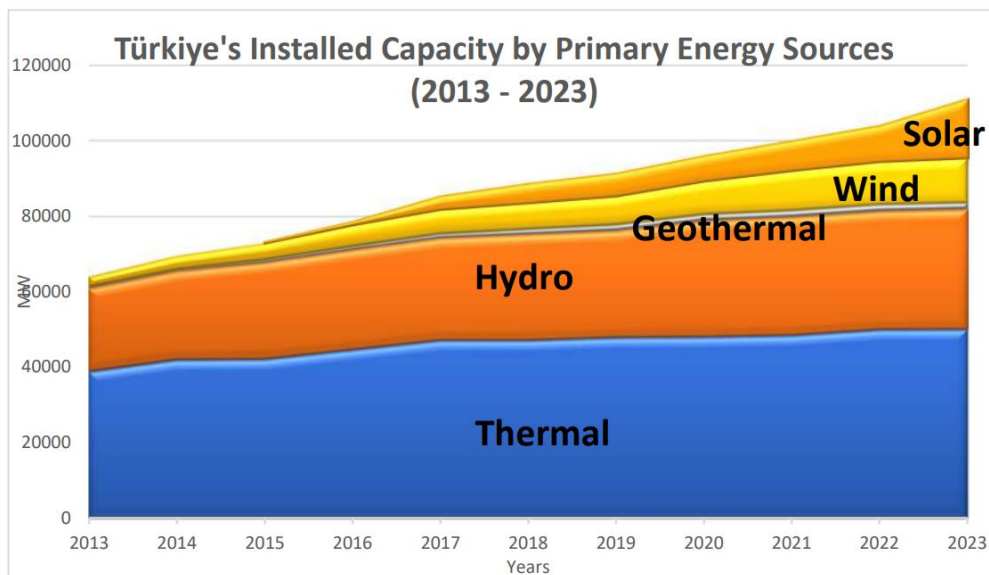


Figure 4. The development of Türkiye's installed capacity by primary energy resources, 2013-2023

Table-6 shows the comparison of renewable electricity generation share in Türkiye total electricity generation and the distribution of the renewable energy resources within this share between the years of 2013 and 2023¹¹. It's obvious that renewable electricity generation has increased 102% during this period. Hydro still has the biggest share

¹⁰ <https://www.teias.gov.tr/turkiye-elektrik-uretim-iletim-istatistikleri>

¹¹ <https://webim.teias.gov.tr/file/77657411-e2e6-4894-bc13-cc078111598c?download>

with 45.66%, whereas solar and geothermal have the portions of 15.76% and 24.34%, respectively. Geothermal and biomass have the smallest portions with 7.92% and 6.32%, respectively.

Table 6 - Comparison of Renewable Electricity Generation Share in Türkiye Total Electricity Generation, 2011-2021

Years	Hydro	Geo	Wind	Solar	Biomass RENEWABLE GENERATION	Renewable Share (%)
2013	85.82%	1.97%	10.92%	0%	1.29%	28.8%
2023	45.66%	7.92%	24.34%	15.76%	6.32%	42.3%

In reference to 5-year capacity projection¹², it is clear that fossil fuels and non-renewable resources will remain the main sources for electricity generation through 2025. According to TEİİAS's most up-to-date projection fossil fuels will continue to dominate the market. In 2025, hydro will account for 18% of the mix whereas all non-hydro renewable combined (geothermal/ biomass/ solar/ wind) will only account for 18% of all electricity generation capacity. This projection is consistent with continuing fossil fuel dependent characteristics of Turkish electricity sector.

¹² <https://webapi.teias.gov.tr/file/b965cb45-e01b-483a-8c91-3f7f5f2fe5d0?download>

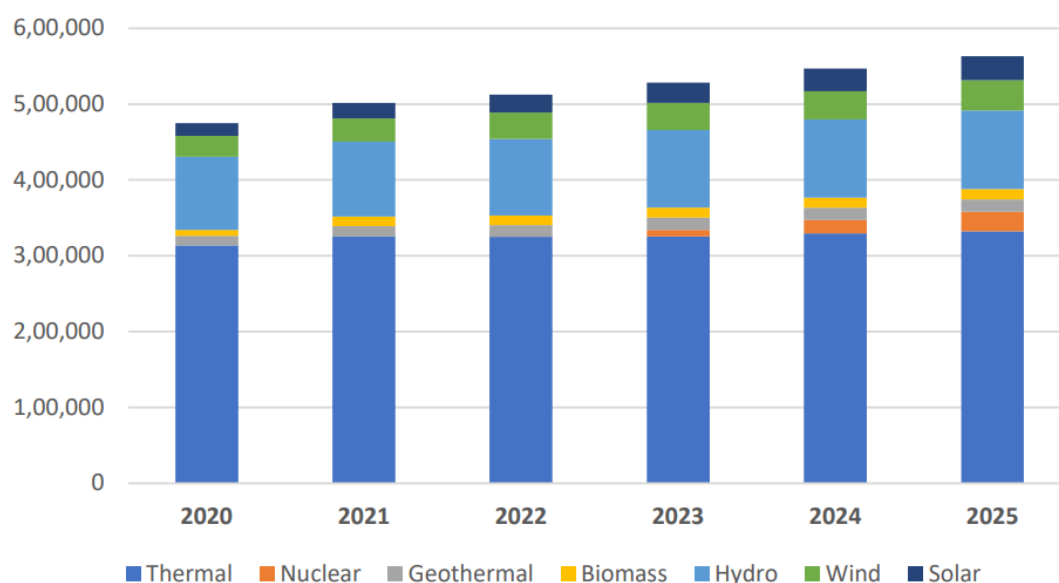


Figure 5. 5-year capacity projection

The current baseline has been updated with the latest data and projections available by the official bodies. It's clear that the baseline scenario is still valid for the second crediting period in accordance with the tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period".

Step 1.3: Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested

This sub-step is not applicable since the baseline scenario identified at the validation of the project activity was not the continuation of use of the current equipment(s) without any investment.

Step 1.4: Assessment of the validity of the data and parameters

Sections B6 and B7 have been updated.

Step 2: Update the current baseline and the data and parameters

Step 2.1: Update the current baseline

The current baseline emissions for the subsequent crediting period have been updated.

Step 2.2: Update the data and parameters

Sections B6 and B7 have been updated.

B.5. Demonstration of additionality

Referred by the Baseline Methodology, the "Tool for the Demonstration and Assessment of Additionality (Version 07.0.0)" outlines a step-by-step approach for the assessment of additionality or in other words the emission reductions that would have occurred in the absence of the project. The additionality has been evaluated in first validation and that the information is not repeated in this PDD, and no new additionality assessment is done.

Please see the milestones of the Project Activity as below:

Table 9 - Timeline of the Project Activity

Activity	Date
Generation License	21/08/2008
Consultancy agreement for carbon asset development	19/12/2008
Finance secured	02/03/2009
Board decision	25/03/2009
Turbine purchase and service agreement	01/04/2009
Stakeholder meeting	14-15/07/2009
Feasibility study finalized	08/09/2009
EIA exemption letter	September 2009
Construction agreement	28/04/2010
Commissioning date of 11 turbines (T1, T2, T3, T4, T6, T7, T8, T9, T10, T11, T12)	11/02/2011
1 st Crediting Period start date	11/02/2011
1 st Monitoring Period	11/02/2011 – 31/08/2012

Commissioning of 2 turbines (T5 und T13)	06/05/2011
2 nd Monitoring Period	01/09/2012 – 30/09/2013
3 rd Monitoring Period	01/10/2013 – 31/03/2015
4 th Monitoring Period	01/04/2015 – 31/03/2016
5 th Monitoring Period	01/04/2016 – 10/02/2018
1 st Crediting period end date	10/02/2018
2 nd Crediting period start date	11/02/2018
6 th Monitoring Period	28/03/2020 – 28/02/2023
2 nd Crediting period end date	10/02/2025
3 rd Crediting Period	11/02/2025 – 10/02/2032

B.5.1 Prior Consideration

N/A

B.5.2 Ongoing Financial Need

Previously issued VERs have given support to the ongoing financial sustainability of the project. The Project Owner had difficulties commercializing the VERs. Both low demand for VERs and a sharp decrease in prices caused Project Owner not to benefit from carbon revenue as expected. Despite the fact that the sales prices were so lower than the expected ones at the investment time, sold VERs provided contribution to the ongoing financial sustainability of the project. VER revenue from the project is mostly used for the operation costs of the project activity to be covered. The ratio of carbon sales revenue to electricity sales revenue is 2%.

B.6. Sustainable Development Goals (SDG) outcomes

Relevant Target/Indicator for each of the three SDGs

Sustainable Development Goals Targeted	Most relevant SDG Target	SDG Impact
		Indicator (Proposed or SDG Indicator)
13 Climate Action	13.3. Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	57,542 tCO2 Emission Reductions
7 Affordable and Clean Energy	7.2. By 2030, increase substantially the share of renewable energy in the global energy mix	91,570.00 MWh of renewable energy generated
8 Decent Work and Economic Growth	8.5. By 2030, achieve full and productive employment and decent work for all women and men 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	15 Employees

B.6.1 Explanation of methodological choices/approaches for estimating the SDG Impact

- **Goal 7 Affordable and Clean Energy**

The project produces electricity from renewable energy sources using wind as the power source and to contribute to Turkey's growing electricity demand through a sustainable

and low carbon technology. The project displaces the same amount of electricity generated by the grid dominated by fossil fired power plants.

The project is expected to generate 91,570 MWh annually. The project contributes to the following target 7.2. and following indicator 7.2.1.

- **Goal 8 Decent Work and Economic Growth**

During construction and operational period, the project has created employment opportunities for the local community. The project contributes to the economic development of the region by providing sustainable energy resources.

Considering the operational phase, 15 personnel are working permanently. The target will be monitored by the number of full-time employees with the SGK records during the verification process. Due to job requirements and demographics of the project area, employment of woman and persons with disabilities has not been possible, yet.

The positions at the wind projects require skilled workers, which will be achieved by adequate training. Attendance records or training certificates will be provided during the verification process. The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe work environments.

The project contributes to the following targets 8.5.; 8.8.and following indicators 8.5.2.; 8.8.1

- **Goal 13 Climate Action**

The annual emission reduction estimated by the project is 57,542 tonnes of CO₂eq, approximately. While this amount of emissions are mitigated, technology transfer is also realized as benefitting from wind energy.

The project contributes to improving the environmental situation in the region and in the country as avoiding fossil fuel-based electricity will enhance the air quality and help to reduce the adverse effects on the climate. Through renewable technologies and wind-based electricity sustainable and climate friendly development is promoted.

The project contributes to the following target 13.3. and following indicator 13.3.2.

For the calculation of the emission reductions of the project activity, "Tool to calculate the emission factor of an electricity system" Version 07.0.0. is taken into consideration.

In accordance with ACM0002 - Version 22.0, the baseline emissions are calculated as the net electricity generated by the project activity, multiplied with the baseline emission factor of the project grid.

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

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)

$EF_{grid,y}$ = 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)

$$\begin{aligned} BE_y &= 91,570 \text{ MWh} \times 0.6284 \text{ tCO}_2/\text{MWh} \\ &= 57,542 \text{ tCO}_2 \end{aligned}$$

Project Emissions

Since the project activity is a wind project,

$$PE_y = 0.$$

Leakage

In accordance with the ACM0002 - Version 22.0, the leakage is taken as zero since the project is a new power plant is taken as zero,

$$LE_y = 0.$$

Emission Reductions

$$ER_y = BE_y - PE_y - LE_y$$

$$ER_y = 57,542 \text{ tCO}_2 - 0 - 0$$

$$ER_y = 57,542 \text{ tCO}_2$$

Equation (2)

B.6.2 Data and parameters fixed ex ante

SDG13

Data/parameter	EFgrid, CM, y
Unit	tCO ₂ /MWh
Description	Emission factor of the Turkish grid determined ex-ante. It's been published by the Ministry of Energy for 2022 on 26/11/2024.
Source of data	Calculated Ministry of Energy. Please see: https://enerji.gov.tr//Media/Dizin/EVCED/tr/ÇevreVeİklim/İklimDeğişikliği/TUESEmisyonFktr/Belgeler/Sebeke_EF_Bilgi_Formu_2022.pdf
Value(s) applied	0.6284

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	-

B.6.3 Ex ante estimation of SDG Impact

Calculation of the Operating Margin Emission Factor

It's been published as 0.7108 tCO₂/MWh by the Ministry of Energy¹³.

Calculation of the Build Margin Emission Factor

It's been published as 0.3812 tCO₂/MWh by the Ministry of Energy¹⁴.

According to "Tool to calculate the emission factor for an electricity system" - Version 07.0, the build margin emission factor for the 2nd crediting period was used for the third crediting period.

¹³Please see https://enerji.gov.tr//Media/Dizin/EVCED/tr/ÇevreVeİklim/İklimDeğişikliği/TUESEmisyonFktr/Belgeler/Sebeke_EF_Bilgi_Formu_2022.pdf

¹⁴ Please see https://enerji.gov.tr//Media/Dizin/EVCED/tr/ÇevreVeİklim/İklimDeğişikliği/TUESEmisyonFktr/Belgeler/2018_Sebeke_EF.pdf

Calculating of the Combined Margin Emission Factor

According to “Tool to calculate the emission factor for an electricity system” - Version 07.0, the combined margin emission factor for the 3rd crediting period was calculated as follows:

$$EF_{grid,CM,y} = EF_{grid,OM,y} \times w_{OM} + EF_{grid,BM,y} \times w_{BM}$$

$$EF_{grid,CM,y} = 0.75 \times 0.7108 \text{ tCO}_2/\text{MWh} + 0.25 \times 0.3812 \text{ tCO}_2/\text{MWh}$$

$$EF_{grid,CM,y} = 0.6284 \text{ tCO}_2/\text{MWh}$$

Baseline Emissions

In accordance with ACM0002 - Version 22.0, the baseline emissions are calculated as the net electricity generated by the project activity, multiplied with the baseline emission factor of the project grid.

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

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)

$EF_{grid,y}$ = 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)

$$\begin{aligned} \text{BEy} &= 91,570 \text{ MWh} \times 0.6284 \text{ tCO}_2/\text{MWh} \\ &= 57,542 \text{ tCO}_2 \end{aligned}$$

Project Emissions

Since the project activity is a wind project,

$$\text{PEy} = 0.$$

Leakage

In accordance with the ACM0002 -Version 22.0, leakage is taken as zero since the project is a new power plant is taken as zero,

$$\text{LEy} = 0.$$

Emission Reductions

$$\text{ERy} = \text{BEy} - \text{PEy} - \text{LEy} \quad \text{Equation (2)}$$

$$\text{ERy} = 57,542 \text{ tCO}_2 - 0 - 0$$

$$\text{ERy} = 57,542 \text{ tCO}_2/\text{MWh}$$

B.6.4 Summary of ex ante estimates of each SDG Impact

Net Benefit to SDG 7

Year	Baseline estimate	Project estimate	Net benefit
11.02.2025 - 31.12.2025	0	81,284.05	81,284.05
2026	0	91,570.00	91,570.00
2027	0	91,570.00	91,570.00
2028	0	91,570.00	91,570.00
2029	0	91,570.00	91,570.00

2030	0	91,570.00	91,570.00
2031	0	91,570.00	91,570.00
01.01.2032 - 10.02.2032	0	10,285.95	10,285.95
Total	0	640,990.00	640,990.00
Total number of crediting years	7		
Annual average over the crediting period	0	91,570.00	91,570.00

Net Benefit to SDG 13

Year	Baseline estimate	Project estimate	Net benefit
11.02.2025 - 31.12.2025	51,078	0	51,078
2026	57,542	0	57,542
2027	57,542	0	57,542
2028	57,542	0	57,542
2029	57,542	0	57,542
2030	57,542	0	57,542
2031	57,542	0	57,542
01.01.2032 - 10.02.2032	6,463	0	6,463
Total	402,793	0	402,793
Total number of crediting years	7		
Annual average over the crediting period	57,542	0	57,542

Net Benefit to SDG 8

If the project hadn't been realized, there wouldn't be employment opportunity for employees. Therefore, the achieved impact for this SDG is 15.

1 Occupational Health and Safety (OHS) training has been provided to employees. Therefore, the achieved impact for SDG 8.8 is 1.

B.7. Monitoring plan

B.7.1 Data and parameters to be monitored

SDG 13

Data/parameter	ER _y
Unit	tCO ₂ /y
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, 0.6284 tCO₂/MWh, which was calculated as follows: $EF_{grid,CM,y} = 0.75 \times 0.7108 \text{ tCO}_2/\text{MWh} + 0.25 \times 0.3812 \text{ tCO}_2/\text{MWh}$ $EF_{grid,CM,y} = 0.6284 \text{ tCO}_2/\text{MWh}$

	Please see: https://enerji.gov.tr//Media/Dizin/EVCED/tr/ÇevreVeİklim/İklimDeğişikliği/TUESEmisyonFktr/Belgeler/Sebeke_EF_Bilgi_Formu_2022.pdf
Value(s) applied	57,542
Measurement methods and procedures	Please check sections B.6.3 and B.7.3 for more detailed description of the monitoring plan.
Monitoring frequency	Yearly
QA/QC procedures	Please check section B.7.3 for the monitoring plan
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	

SDG 7

Data/parameter	EG _{PJ, grid, y} ,
Unit	MWh/yr
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y
Source of data	Direct measurement ¹⁵

¹⁵EPIAS records

Value(s) applied	The annual electricity fed to the grid is estimated as 91,570 MWh.																							
Measurement methods and procedures	Please check sections B.6.3 and B.7.3 for more detailed description of the monitoring plan.																							
Monitoring frequency	The net electricity is measured continuously by a power meter at the grid interface and recorded monthly. EPIAŞ records are the source of the exact electricity generation of the project and the imports from the grid. The quantity of net electricity delivered to the grid is cross checked with the meter reading records (OSF forms-OSOS) which are provided to the company by TEİAŞ. Net electricity generation supplied by the project plant to the grid [MWh] = Electricity supplied to the grid [MWh] - Electricity consumption from the grid [MWh] Meters information: Current power meters <table><tr><th>Specifications</th><th>Main meter</th><th>Spare Meter</th></tr><tr><td>Manufacturer</td><td>EMH</td><td>EMH</td></tr><tr><td>Serial No</td><td>10962383</td><td>10962384</td></tr><tr><td>Accuracy Class</td><td>0.5S</td><td>0.5S</td></tr><tr><td>The Latest Calibration Date of the Meter</td><td>26/05/2022</td><td>26/05/2022</td></tr><tr><td>The Latest Test Dates of the Meter¹⁶</td><td>26/05/2022, 23/05/2024</td><td>26/05/2022, 23/05/2024</td></tr></table> Power meters that were changed on 26/05/2022¹⁷: <table><tr><th>Specifications</th><th>Main meter</th><th>Spare Meter</th></tr></table>			Specifications	Main meter	Spare Meter	Manufacturer	EMH	EMH	Serial No	10962383	10962384	Accuracy Class	0.5S	0.5S	The Latest Calibration Date of the Meter	26/05/2022	26/05/2022	The Latest Test Dates of the Meter ¹⁶	26/05/2022, 23/05/2024	26/05/2022, 23/05/2024	Specifications	Main meter	Spare Meter
Specifications	Main meter	Spare Meter																						
Manufacturer	EMH	EMH																						
Serial No	10962383	10962384																						
Accuracy Class	0.5S	0.5S																						
The Latest Calibration Date of the Meter	26/05/2022	26/05/2022																						
The Latest Test Dates of the Meter ¹⁶	26/05/2022, 23/05/2024	26/05/2022, 23/05/2024																						
Specifications	Main meter	Spare Meter																						

¹⁶ The Meter Test Protocols are available to the VVB.

¹⁷ The Meter Change Protocol is available to the VVB.

	Manufacturer	ACTARIS	ACTARIS
	Serial No	53031805	53031806
	Accuracy Class	0.5S	0.5S
QA/QC procedures	Please check section B.7.3 for the monitoring plan		
Purpose of data	Calculation of emission reductions SDG 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix		
Additional comment	-		

SDG 8

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	15
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	-
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Data/parameter	Number of trainings
Unit	Number
Description	Number of training sessions held
Source of data	Attendance records or training certificates
Value(s) applied	-
Measurement methods and procedures	Attendance records or training certificates
Monitoring frequency	Once for each year of operation
QA/QC procedures	Attendance records or training certificates are provided during each monitoring period.
Purpose of data	Monitoring the trainings and working conditions 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	-

B.7.2 Sampling plan

N/A

B.7.3 Other elements of monitoring plan

The Project Owner will be responsible for the overall management of the monitoring procedures including recording, data collection and storage. The consultant calculates emission reductions based on these monitored data and prepares monitoring report.

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 between 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 in order to be protected from interference by any of the parties.

Table 10 - Current electricity meter information is below:

Specifications	Main meter	Spare Meter
Manufacturer	EMH	EMH
Serial No	10962383	10962384
Accuracy Class	0.5S	0.5S
The Latest Calibration Date of the Meter	26/05/2022	26/05/2022

The capacity of the transmission line connected is 154 kVA, the accuracy class for main power meters has been defined in the Communiqué for Power Meters as 0.5S class. The back-up meter has the same accuracy class as 0.5S. The calibration will be implemented in accordance with the related standard procedures (IEC-EN 62053-22 and 62053-23) by either Turkish Electricity Transmission Corporation (TEIAS) or the provider company

in the name of TEİAŞ. The meters are calibrated every ten years. Additionally, the meters are tested every two years¹⁸.

TEİAŞ is performing remote reading of the meters and monthly power meter readings are the basis for monitoring net electricity fed into the grid. EPIAŞ records will be used as the source of net generated electricity value and meter reading forms or OSF forms issued by TEİAŞ will be used for the crosscheck.

The website of EPIAŞ (<https://cas.epias.com.tr/cas/login>) 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 own projects. The same reports are used by the Project owner for invoicing TEİAŞ. The electricity generation data is reported on a monthly basis.

All data collected as part of monitoring will be archived electronically by the project owner and be kept at least for 2 years after the end of the last crediting period.

SECTION C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1 Start date of project

The project start date is 28/04/2010 as the date of signature of the works contract.

C.1.2 Expected operational lifetime of project

20 years

C.2. Crediting period of project

C.2.1 Start date of crediting period

¹⁸ Please see Clause 9: [Measuring instruments directive](#)

Start date of the first crediting period: 11/02/2011

End date of the first crediting period: 10/02/2018

Start date of the second crediting period: 11/02/2018

End date of the second crediting period: 10/02/2025

Start date of the third crediting period: 11/02/2025

End date of the third crediting period: 10/02/2032 (both dates are included)

C.2.2 Total length of crediting period

Since this is third crediting period of the Project Activity, 7 years, renewed twice.

SECTION D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1 Safeguarding Principles that will be monitored

Data/parameter	Biodiversity
Unit	N/A
Description	Probable impact on nests and carcasses will be monitored. Wind turbines were painted, and lighting was installed to minimize the risk of bird collision.
Source of data	During the 1 st CP and 2 nd CP, seasonal reporting was conducted. For the 3 rd CP, regular site vettings and recording by site personnel will be conducted.
Value(s) applied	-

Measurement methods and procedures	Site forms recorded by site personnel
Monitoring frequency	Once for each year of operation
QA/QC procedures	Site forms recorded by site personnel will be provided during each monitoring period.
Purpose of data	Safeguarding Principle 9.10 High Conservation Value Areas and Critical Habitats
Additional comment	-

D.2. Assessment that project complies with GS4GG Gender Sensitive requirements

Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?	The Project provides equal opportunity for women and men to contribute both in volunteer and working positions. The project owner takes into account participation by both men and women. The access of women or men, as the case may be, to Project participation and benefits is not limited. Regarding the Project Activity, women employees are employed within the the carbon consultant of the Project Activity is also woman.
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	For the implementation of the project activity, female employees have various roles and responsibilities. Some of the roles taken by female employees may be seen as below: These female employees are working at the central office as being responsible for all wind projects of the Project Proponent: • Human resources management • Processing IT infrastructure • Payment and cash proceeds management The carbon consultant of the Project Activity is also woman.
Question 2 - Explain how the project aligns with existing country policies, strategies and best practices	The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation, or any other basis. Turkey signed the convention of International Labour Organization. The related articles are 100 and 111. The project owner respects Article 5/8425 of Labour Law; which states no discrimination based on gender, race, religion, sexual orientation or any other basis is allowed.
Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?	No

Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?	No
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SECTION E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

E.1 Summary of stakeholder mitigation measures

In order to develop the project as a Gold Standard VER project the Local Stakeholder Consultation Meetings which are in line with Gold Standard Requirements were held on 14-15/07/2009 in Üvecik Village and Mahmudiye Town.

During the 1st crediting period, five monitoring periods were verified and required site visits were carried out by VVB. During the 2nd crediting period, one monitoring period was verified and an online meeting was held with VVB on 02/12/2020.

Regarding the renewable crediting period, an online meeting with VVB was held on 17/01/2025. Local stakeholders were interviewed and consulted during the whole project cycle. The contact information of the plant responsible exists at the Mukhtar, the project owner and local community are always in touch. 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. Therefore, no complimentary consultation has been conducted with stakeholders regarding CP renewal.

The grievance mechanism is in place, and this was also confirmed by the interviewed local villagers and Mahmudiye Village Mukhtar (Village Head) during the site visit of the last verification. As the contact information of the plant responsible exists at the Mukhtar, any complaint or a request can be directed to the Project Owner.

E.2 Final continuous input / grievance mechanism

Method	Include all details of Chosen Method (s) so that they may be understood and, where relevant, used by readers.
Continuous Input / Grievance Expression Process Book (mandatory)	The contact information of the plant responsible exist at the Mukhtar, the project owner and local community are always in touch. The project owner regularly checks with the Mukhtar if any complaint or a request exists. Signed letter by the Mukhtar has been provided declaring that the related information has been available to the villagers. Grievance Expression Process book is available at Mukhtar's office ¹⁹ . 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.
GS Contact (mandatory)	help@goldstandard.org
Other	

¹⁹ Signed declaration of the Mukhtar has been provided to the VVB.

APPENDIX 1 - SAFEGUARDING PRINCIPLES ASSESSMENT

Complete the Assessment below and copy all Mitigation Measures for each Principle into [SECTION D](#) above. Please refer to the instructions in the [Guide to Completing](#) this Form.

Assessment Questions/ Requirements	Justification of Relevance (Yes/potentially/no)	How Project will achieve Requirements through design, management or risk mitigation.	Mitigation Measures added to the Monitoring Plan (if required)
Principle 1. Human Rights			
1. The Project Developer and the Project shall respect internationally proclaimed human rights and shall not be complicit in violence or human rights abuses of any kind as defined in	Yes	1. Turkey is a party to European Convention on Human Rights since 18.May. 1954.²⁰ 2. The project owner respects internationally proclaimed human rights including dignity, cultural property and	Not required

²⁰Please See Official Website of Ministry of Foreign Affairs of Turkey: <http://www.mfa.gov.tr/the-european-convention-on-human-rights.en.mfa>

the Universal Declaration of Human Rights 2. The Project shall not discriminate with regards to participation and inclusion		uniqueness of indigenous people. The project is not complicit in Human Rights abuses.	
Principle 2. Gender Equality			
1. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women 2. Projects shall apply the principles of nondiscrimination, equal treatment, and equal pay for equal work 3. The Project shall refer to the country's national gender strategy or equivalent national commitment to aid in assessing gender risks	Yes	1. a. No, the project does not reduce access to or control of resources for women. b. No, the project does not involve in any form discrimination in any kind of form. The project respects the employees' freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights. c. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion,	Not required

4. (where required) Summary of opinions and recommendations of an Expert Stakeholder(s)		sexual orientation or any other basis. d.No, the project does not discriminate on basis of gender. e. No, the project design does not contribute to an increase in women’s workload that adds to their care responsibilities or that prevents them from engaging in other activities. f.No,the project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis. g.No, the project is not complicit in restrictions of any freedoms and rights; and does not involve and is not complicit in any form of discrimination based on	
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		gender, race, religion, sexual orientation or any other basis. h.No, the project does not expose women and girls to further risks or hazards. 2. a.The project does not lead or contribute sexual harassment and/or any forms of violence against women. b. There is no such risk for the project. Participation in the project is voluntary. c. The project does not restrict women’s rights or access to resources (natural or economic). d.The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis.	
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		3.a. The Project provide equal opportunity for women and men to contribute both in volunteer and working positions. b. The project owner takes into account participation by both men and women. 3. The access of women or men, as the case may be, to Project participation and benefits is not limited. 4. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion, sexual orientation or any other basis. Turkey signed the convention of International Labour Organization. The related articles are 100 and 111.	
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		The project owner respects Article 5/8425 of Labour Law; which states no discrimination based on gender, race, religion, sexual orientation or any other basis is allowed.	
Principle 3. Community Health, Safety and Working Conditions			
1. The Project shall avoid community exposure to increased health risks and shall not adversely affect the health of the workers and the community	Yes	The Project avoids community exposure to increased health risks[3] and does not adversely affect the health of the workers and the community.	Not required
Principle 4.1 Sites of Cultural and Historical Heritage			
Does the Project Area include sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture?	No	During the construction and operation of the project, there was not any damage, alteration or removal to the critical cultural heritage. Because the project location does not involve any critical cultural heritage. Cultural and	Not required
>>			

		environmental heritage is protected against alteration, damage or removal by the law. ²¹ As it was approved during the last monitoring period, the Project Activity has the permissions by the Ministry of Culture and Tourism as a requirement of the project approval process ²² .	
Principle 4.2 Forced Eviction and Displacement			
Does the Project require or cause the physical or economic relocation of peoples (temporary or permanent, full or partial)?	No	The Project shall not involve and shall not be complicit in the involuntary relocation of people.	Not required

²¹ Reference: "Law on Protection of Cultural and Environmental Assets"

<http://mevzuat.basbakanlik.gov.tr/Metin.Aspx?MevzuatKod=1.5.2863&MevzuatIliski=0&sourceXmlSearch=>

²²The permission has been provided to the VVB.

Principle 4.3 Land Tenure and Other Rights			
a. Does the Project require any change, or have any uncertainties related to land tenure arrangements and/or access rights, usage rights or land ownership? b. For Projects involving land use tenure, are there any uncertainties with regards to land tenure, access rights, usage rights or land ownership?	No	a. There is no resettlement issue associated with the Project. The project does not cause any resettlement. All the lands to be used for the project are agricultural lands and the expropriation issue for the project activity was completed during first monitoring period. b. There are no uncertainties with regards land tenure, access rights, usage rights or land ownership.	Not required
Principle 4.4 - Indigenous people			
Are indigenous peoples present in or within the area of influence of the Project and/or is the Project located on land/territory claimed by indigenous peoples?	No	There is no resettlement issue associated with the Project. There was not house in the project area, thus the	Not required

		project did not cause any resettlement.	
Principle 5. Corruption			
1. The Project shall not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	No	The Project does not involve, be complicit in or inadvertently contribute to or reinforce corruption or corrupt Projects	Not required
Principle 6.1 Labour Rights			
1. The Project Developer shall ensure that all employment is in compliance with national labour occupational health and safety laws and with the principles and standards embodied in the ILO fundamental conventions 2. Workers shall be able to establish and join labour organisations	Yes	1. The Project Developer shall ensure that there is no forced labour and that all employment is in compliance with national labour and occupational health and safety laws, with obligations under international law, and consistency with the principles and standards embodied in the International Labour Organization (ILO) fundamental conventions.	Not required

3. Working agreements with all individual workers shall be documented and implemented and include: a) Working hours (must not exceed 48 hours per week on a regular basis), AND b) Duties and tasks, AND c) Remuneration (must include provision for payment of overtime), AND d) Modalities on health insurance, AND e) Modalities on termination of the contract with provision for voluntary resignation by employee, AND f) Provision for annual leave of not less than 10 days per year, not		2. Workers are able to establish and join labour organisations. 3. Working agreements with all individual workers are documented and implemented. The employment model applied is locally and culturally appropriate. 4. Child labour, as defined by the ILO Minimum Age Convention is not allowed. 5. The use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures are provided.	
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including sick and casual leave. 4. No child labour is allowed (Exceptions for children working on their families' property requires an Expert Stakeholder opinion) 5. The Project Developer shall ensure the use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures			
Principle 6.2 Negative Economic Consequences			

1. Does the project cause negative economic consequences during and after project implementation?	No	1. Financial Sustainability of the project has been discussed under Section B.5. The calculations are for the entire life of the project. 2. There are no negative economic impacts or potential risks to the local economy deriving the project activity.	Not required
Principle 7.1 Emissions			
Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No	The project activity is a wind power project and does not cause any greenhouse gas emissions in project scenario.	Not required
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Principle 7.2 Energy Supply			
Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such as wood, biomass) that provides for other local users?	Yes	The auxiliary consumption of the Project is met from the national grid.	Not required

Principle 8.1 Impact on Natural Water Patterns/Flows			
Will the Project affect the natural or pre-existing pattern of watercourses, groundwater and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	No	The project operation does not consume surface or groundwater, or discharge wastewater containing heat of chemicals. Also, the wastewater and other wastes during the construction were collected in tanks/containers since the project area is located in the rural area and there is no municipal sewer system in the vicinity and these wastes were transported and disposed by the local municipality. Drinking water is supplied by bottled water.	Not required
Principle 8.2 Erosion and/or Water Body Instability			
a. Could the Project directly or indirectly cause additional erosion and/or water body	No		Not required

instability or disrupt the natural pattern of erosion? b. Is the Project's area of influence susceptible to excessive erosion and/or water body instability?		a. No. The project activity has developed activities for prevention of soil erosion. The planning has been done in a way that the amount of excavation soil is equalized to the filling volume and excavation soils are utilized within the operation area. b. No.	
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Principle 9.1 Landscape Modification and Soil			
Does the Project involve the use of land and soil for production of crops or other products?	No	The project activity does not involve the use of land and soil for production of crops or other products.	Not required
Principle 9.2 Vulnerability to Natural Disaster			
Will the Project be susceptible to or lead to increased	No	The Project will not be susceptible to or lead to	Not required

vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?		increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions.	
Principle 9.3 Genetic Resources			
Could the Project be negatively impacted by or involve genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development, or take place in facilities or farms that include GMOs in their processes and production)?	No	The project is not impacted by the use of genetically modified organisms or GMOs.	Not required
Principle 9.4 Release of pollutants			
Could the Project potentially result in the release of pollutants to the environment?	No	As being a renewable energy power project, the project activity does not lead to release of any pollutants. The project complies with the	Not required
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		related regulations of Ministry of Environment and Urbanization. The electricity delivered to the grid by the project activity substitutes the same amount of electricity generated from the generation mix of Turkey, which is dominated by fossil fuels. During the online site visit, the stakeholders were interviewed and there wasn't any complaint on noise or shadow flickering of the turbines. Since the nearest residential area is 4.5 km away from the project activity, no negative impact is realized.	
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Principle 9.5 Hazardous and Non-hazardous Waste			
Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	No	During operation of the project activity, there are no positive nor negative impacts expected. During excavation and construction no hazardous, toxic or flammable materials have not been used. Hazardous wastes are handled appropriately in closed containers and transported by licensed transporters to the licensed processing and disposal facilities.	Not required
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Principle 9.6 Pesticides & Fertilisers			
Will the Project involve the application of pesticides and/or fertilisers?	No	The Project will not involve the application of pesticides and/or fertilisers.	Not required
Principle 9.7 Harvesting of Forests			

Will the Project involve the harvesting of forests?	No	The Project does not involve the harvesting of forests.	Not required
Principle 9.8 Food			
Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No	The Project does not have any impact on the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives.	Not required
Principle 9.9 Animal husbandry			
Will the Project involve animal husbandry?	No	The Project will not involve animal husbandry.	Not required
Principle 9.10 High Conservation Value Areas and Critical Habitats			
Does the Project physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats, landscapes, key biodiversity areas or sites identified?	No	The Project does not physically affect or alter largely intact or High Conservation Value (HCV) ecosystems, critical habitats,	Not required

		landscapes, key biodiversity areas or sites identified.	
Principle 9.11 Endangered Species			
a. Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)? b. Does the Project potentially impact other areas where endangered species may be present through transboundary affects?	No	a. There aren't any endangered species identified as potentially being present within the Project boundary (including those that may route through the area) b. The Project does not potentially impact other areas where endangered species may be present through transboundary affects.	Not required

APPENDIX 2- CONTACT INFORMATION OF PROJECT PARTICIPANTS

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