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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

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KEY PROJECT INFORMATION

GS ID of Project	4264
Title of Project	SİLİVRİ WIND POWER PLANT, TURKEY
Time of First Submission Date	12/08/2021
Date of Design Certification	30/05/2016 CP renewal date: 12/08/2021
Version number of the PDD	V 109
Completion date of version	(Initially registered PDD v4) 0625 /095/2023
Project Developer	Eksim Enerji A.Ş.
Project Representative	SEKANS DANIŞMANLIK
Project Participants and any communities involved	-
Host Country (ies)	TURKEY
Activity Requirements applied	<input type="checkbox"/> Community Services Activities <input checked="" type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities <input type="checkbox"/> N/A
Scale of the project activity	<input type="checkbox"/> Micro scale <input type="checkbox"/> Small Scale <input checked="" type="checkbox"/> Large Scale
Other Requirements applied	-
Methodology (ies) applied and version number	ACM0002 version 20.0.0
Product Requirements applied	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> 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	88,834	VERs
SDG 7 Ensure access to affordable, reliable, sustainable and modern energy for all	MWh of renewable energy generated	143,327	MWh
SGD 8 Decent Work and Economic Growth	Employee	14	Number of employees

SECTION A. DESCRIPTION OF PROJECT

A.1 Purpose and general description of project

EksimEnerji A.Ş¹. built the Silivri Wind Power Plant, Turkey (Silivri WPP) with an installed capacity of 45 MW in İstanbul Province of Turkey. Silivri WPP is connected via a transmission line to the 154 kV Silivri Transformer Station and the generated electricity will be supplied to Turkey's national electricity grid. 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 Silivri WPP consists of eighteen Nordex N100 turbines, each having a capacity of 2.5 MWs. Total installed capacity of the project is 45 MW. The annual electricity production of the project was calculated as 143,327 MWh².

Even the installed capacity of the project in the generation license was 57.5 MW, the capacity of 45 MW has been in operation during the 1st monitoring period. Two turbines (T22 and T23) were added to the project on 11/01/2019 and they started their commercial operation. Finally, the generation license of the project was revised on 31/03/2017 and the installed capacity of the project has been raised to 60 MWm/45MWe with the revision. The commissioning of T11, T19 and T20 was realized on 25/10/2019. The installed capacity of each added turbine is 3.6MWm/3.6MWe. On 16/04/2020, the capacity increase has been approved by EMRA. Thus, the installed capacity of the project has increased to 63 MWm/63MWe. As the registered capacity (45MW) of the project is considered, the electricity generation and the emission reduction of the added units are ignored. The total net electricity generation from the Project Activity will be monitored along with the generation from the increased capacity to apply the method presented in Section B.6.3 of the PDD.

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 88,834 tonnes of CO₂.

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.

The construction work started in 21/10/2013. The project was operational on 20/08/2014³ and registered on 30/05/2016 under the Gold Standard Registry with the registration number GS4264.

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 20.0, 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.

¹ The company has been changed as Eksim Enerji A.Ş, the Project Owner is same. Revised cover letter which was approved by GS has been submitted to the VVB.

² Please see Wind_Study_Silivri_FINAL_rev01

³ The Ministry Acceptance Protocol is available to the VVB.

- 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.

General Eligibility Criteria

- Type of project: Wind
- Location of project: The project is located in İstanbul province, Turkey. Therefore, the project is eligible.
- Project Area, Boundary and Scale: The registered project activity is 45.0 as large scale.
- Project is not included in any other voluntary or compliance standards programme. The existing 45 MW capacity is not included in IREC⁴.

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

Eksim Enerji A.Ş.

A.2 Location of project

Fenerköy village, Silivri town, İstanbul Province, Turkey.

Table 1 - Turbine Coordinates⁵

⁴ Signed declaration by the PO is available to the VVB.

⁵ The Generation License

Wind Turbine No.	Latitude (N)	Longitude (E)
1	41° 10' 19.2288"	28° 15' 30.7723"
2	41° 10' 16.8816"	28° 15' 42.7736"
3	41° 10' 15.1212"	28° 15' 55.4856"
4	41° 10' 14.3760"	28° 16' 36.5837"
5	41° 10' 06.9600"	28° 16' 38.7999"
6	41° 10' 13.6488"	28° 17' 18.7547"
7	41° 10' 00.6852"	28° 17' 20.7751"
8	41° 09' 53.9388"	28° 17' 26.6504"
9	41° 09' 48.0168"	28° 17' 34.3867"
10	41° 09' 18.1836"	28° 17' 31.5264"
11	41° 10' 27.7932"	28° 16' 31.3508"
12	41° 09' 17.8056"	28° 18' 10.6051"
13	41° 09' 08.5356"	28° 18' 15.9560"
14	41° 09' 03.8664"	28° 18' 24.5725"
15	41° 09' 01.8648"	28° 18' 38.2183"
16	41° 09' 01.4292"	28° 19' 16.3491"
17	41° 09' 15.8508"	28° 19' 28.2658"
18	41° 09' 12.2832"	28° 19' 39.6063"



Figure 1. Project Location on Turkey Map

A.3 Technologies and/or measures

The Project Scenario entails the installation of eighteen Nordex N100 wind turbines, each having a capacity of 2.5 MWs. The turbines are 3 bladed with a horizontal axis. The turbine blades have the ability to change angles according to wind direction. The diameter of the blades is 99.8 m. The turbines are connected to the substation at the natural gas fired power plant operated by the project owner, then to the grid via 154 kV electricity transmission line. The metering has been done at substation before electricity is fed into the grid.

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 20/08/2014 for the commissioning of the 10 turbines. The second temporary acceptance protocol with the Ministry was signed on 04/09/2014 for the remaining five turbines. The third temporary acceptance with the Ministry was signed on 19/09/2014 for the power increase by software.

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

Table 2 - Technical specifications of the installed turbines⁶

Model of Turbine	Parameter	Unit	Value
Nordex N100	Rotor Diameter	m	99.8
	Rated Power	kW	2,500 kW
	Blade length	m	58
	Swept area	m ²	7823
	Cut-out wind speed	m/s	25

⁶ Please see the registered PDD.

A.4 Scale of the project

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 20.0

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

ACM0002 refers to:

- Tool to calculate the emission factor for an electricity system, Version 07.0
- Tool for the demonstration and assessment of additionality, Version 07.0.0
- Tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period", Version 03.0.1

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

The choice of methodology ACM0002 Version 20.0 is justified as the proposed project activity meets relevant applicability criteria:

Table 3 - Applicability of ACM0002

Applicability Criteria	Justification
<p>This methodology is applicable to grid-connected renewable energy power generation project activities that:</p> <ul style="list-style-type: none"> (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) 	<p>The project is installation of a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity.</p>
<p>The methodology is applicable under the following conditions:</p> <ul style="list-style-type: none"> (a) The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power 	<p>The project is wind power plant.</p>

<p>plant/unit, wave power plant/unit or tidal power plant/unit;</p> <p>(b) (b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and 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</p>	
<p>In case of hydro power plants, one of the following conditions shall apply:</p> <p>(a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or</p> <p>(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 (3), is greater than 4 W/m²; or</p>	<p>The project is not a hydropower plant.</p>

<p>(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.</p> <p>(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:</p> <p>(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 b. Less than 10 per cent of the total installed capacity of integrated hydro power project.</p>	
<p>The methodology is not applicable to:</p> <p>(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.</p>	<p>The project does not involve switching from fossil fuels to renewable energy sources and is not a biomass fired power plant.</p>
<p>In the case of retrofits, rehabilitations, replacements, or capacity additions, this</p>	<p>The project do not involve retrofits, rehabilitations,</p>

<p>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”.</p>	<p>replacements, and it’s not a capacity addition.</p>
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B.3. Project boundary

The project boundary encompasses the physical, geographical site of the renewable generation source. The wind power plant with all installation is the project boundary.

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:

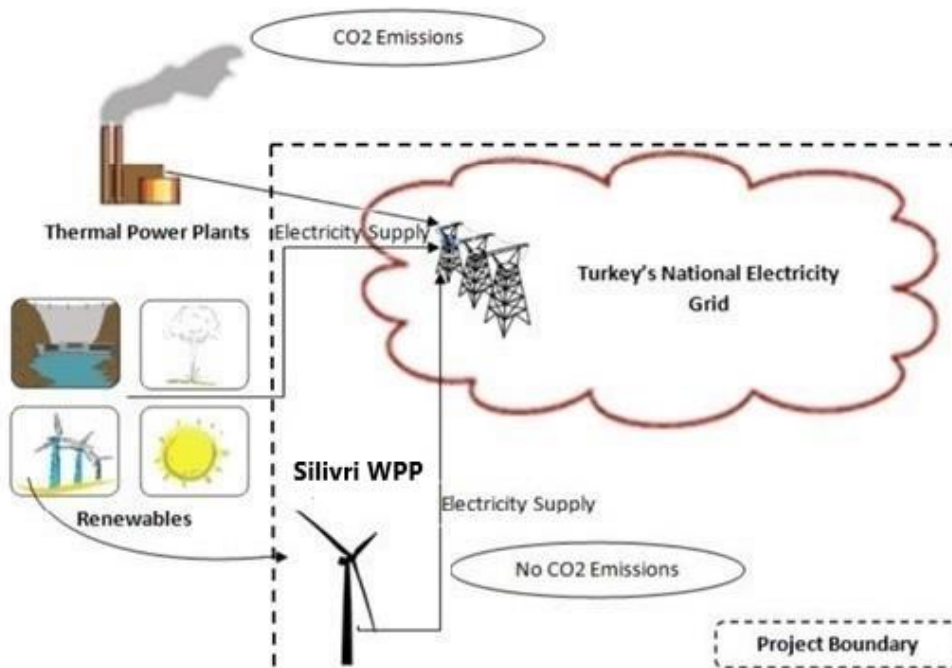


Figure 2. Project Boundary

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	Source 1	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	Source 1	CO2	No	Not applicable

B.4. Establishment and description of baseline scenario

According to ACM0002 (Version 20), 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.

Step 1.2: Assess the impact of circumstances

Through Figure 3, the development of Turkey’s installed capacity by primary energy resources between the years, 2009-2019, the electricity generation has mainly been done by fossil fuel fired power plants in Turkey. Total Installed electricity generation capacity in Turkey has reached 91,267 megawatts (MW) as of 2019. As having a share of 8.32%, wind power projects have an installed capacity of 7,591.2MW.

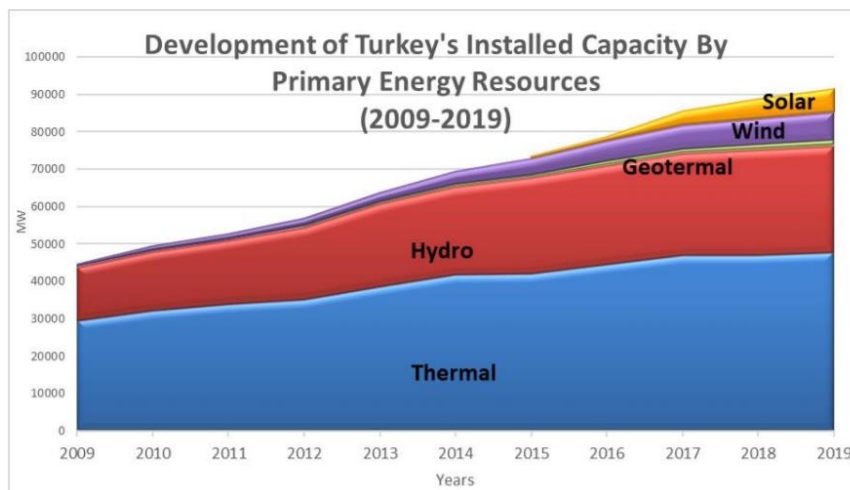


Figure 3. The development of Turkey’s installed capacity by primary energy resources, 2009-2019

In reference to 5-year capacity projection⁷, it is clear that fossil fuels will remain the main sources for electricity generation through until 2024. Fossil fuels will continue to

⁷ <https://webapi.teias.gov.tr/file/abeac87d-3abc-4532-9cf4-d6f3a9d34c17?download>

dominate the market. Hydro will account for 15% of the mix whereas all non-hydro renewable combined (geothermal/ biomass/ solar/ wind) will only account for 11% of all electricity generation capacity. This projection is consistent with continuing fossil fuel dependent characteristics of Turkish electricity sector.

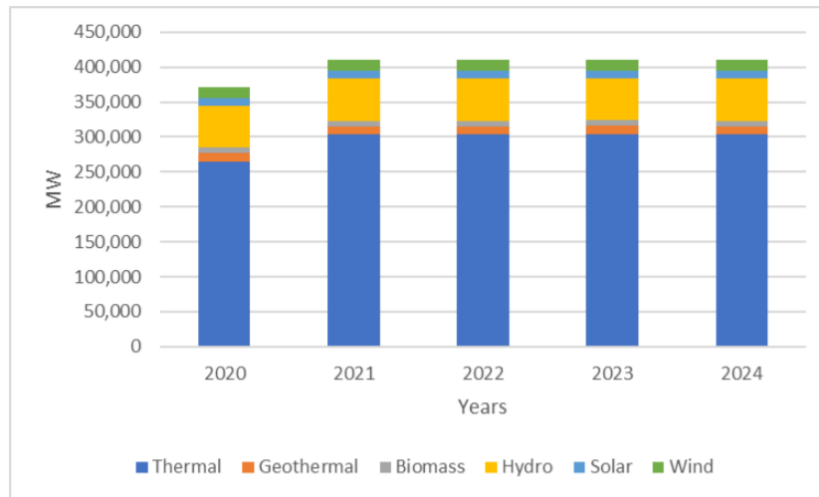


Figure 4. 5-year capacity projection

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

For the demonstration of additionality, "Tool to for the Demonstration and Assessment of Additionality Version 7.0.0" has been applied to the project. The additionality has been evaluated in first validation and that the information is repeated in this PDD and no new additionality assessment is done.

Investment analysis

Determine appropriate analysis method

In line with the 'Tool for the Demonstration and Assessment of Additionality', version 07.0.0, from EB65, Benchmark Analysis had been selected as the analysis method and the Equity IRR had been selected as the financial indicator for the demonstration of the additionality of the project.

For the IRR Calculation of the Project;

The equity IRR (after tax) of Silivri WPP is calculated based on expected cash flows (investment, operating costs, and revenues from electricity sale), as used in the financial analysis for the feasibility assessment of the project.

The parameters and values used for the IRR calculation can be seen from the chart below:

FINANCIALS

Equity Amount	10.423.028 EUR
Loan Amount	38.500.000 EUR
Interest Rate	6,00%
Repayment Period	5
Grace Period (years)	2
Construction Start Date	21.10.2013
Power Plant Operation Start Date	20.08.2014
Investment Decision Date	15.03.2013
USD/TL	1,8085
EUR/USD	1,3054
EUR/TL	2,3608
Corporate Tax Rate	20%

The resulting IRR for 25 years is stated in below table:

Table 5 - Equity IRR value for project activity (after tax)

Period	IRR
25 years	10,2070%

The Benchmark is 15%, it does clearly exceed the resulting equity IRRs, thus rendering the project activity economically unattractive.

The assumptions used for this analysis are outlined as follows:

- The project lifetime was defined as 25 years, as suggested in the “tool to determine the remaining lifetime of equipment (EB 50 Report, Annex 15)” Operational lifetime is also 49 years for the project. The technical lifetime of the equipment exceeds the crediting period for which renewal is requested. The continuation of the use of current baseline equipment is technically possible.

- The financial analysis was performed over the 26 years period. This therefore includes the investments made by the project owner during the construction phase (1 year) and the operational costs along the financial analysis period.
- The Equity IRR (Internal Rate of Return) of the project cash flow had been calculated.
- A tax rate of 20% was applied to the project in line with Turkish tax laws.
- The depreciation periods are assumed as 10 years for turbines, and 20 years for other items in line with the local regulations: http://www.gib.gov.tr/fileadmin/user_upload/Yararli_Bilgiler/amortisman_oranlari2011.html
- The annual power generation figure was assumed as 143,327,000 kWh.
- The power purchase price for the project was assumed to be 5.5 Euro cents per kWh which is the purchase guarantee offered by the State as an incentive to the investment in accordance with Turkish Renewable Energy Law No: 5346 Article 6.c.
- The investment decision date of the project was accepted as the date of agreement electromechanical equipment agreement between the project owner and Nordex. The date of the agreement is March 15th, 2013⁸.

Sensitivity Analysis

While the main parameter determining the income of the project is the electricity sales revenue, investment cost and operation cost, a variation of the accordant values shall demonstrate the reliability of the IRR calculation. Key parameters are varied with +/- 10%. The worst, base and best-case results for each parameter variation are given below, in Table 6.

⁸ Please see the registered PDD.

The sensitivity analysis confirms that the proposed project activity is unlikely to be economically attractive without the revenues from VERs as even the maximum IRR result for the best-case scenario (12,8284%) is below the benchmark, which is 13%.

Table 6 - Equity IRR results according to different parameters

Parameter	Electricity Price			Investment Cost			Energy Yield			Operating Cost		
	Variance	-10%	0%	10%	-10%	0%	10%	-10%	0%	10%	-10%	0%
IRR	7,60 %	10,21 %	12,83 %	12,81 %	10,21 %	8,37 %	7,60 %	10,2 1%	12,83 %	11,71 %	10,21 %	8,55 %

Common practice analysis

The common practice analysis was done first validation and that the information is not repeated in this PDD and no new common practice analysis has been done.

Conclusion:

As the project activity satisfied all the criteria of “Tool for the demonstration and assessment of additionality”. Therefore, the project is still additional.

Please see the milestones of the Project Activity as below:

Table 7 - Timeline of the Project Activity

Activity	Date
“EIA is not required” certificate	11.06.2009
Agreement with Carbon consultant	06.01.2012
Silivri Wind Data Analysis and Energy Production Generation Assessment Report	03.02.2012
Issuance of the License	29.04.2013
Agreement with Equipment provider	15.03.2013

Loan Proposal Date	29.03.2013
Start Date of Construction	21.10.2013
Start Date of Crediting Period	20.08.2014
1st phased implementation of the 10 wind turbines	20.08.2014
2nd phased implementation of the 5 wind turbines.	04.09.2014
3rd phased implementation of the 3 wind turbines.	19.09.2014
Date of project registration	30.05.2016
1st Monitoring Period	20.08.2014 – 31.03.2017
2nd Monitoring Period	01.04.2017 – 31.07.2019

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 to commercialize 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 of 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 covered⁹.

⁹ The signed declaration of the PO and invoices related to the VER are available to the VVB

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	Emission Reductions
7 Affordable and Clean Energy	7.2. By 2030, increase substantially the share of renewable energy in the global energy mix	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	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 with fossil fired power plants.

The project is expected to generate 143,327 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 the economic development of the region by providing sustainable energy resources.

Considering the operational phase, 14 personnel are working permanently. 5 of them are local. 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 88,834 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 improve 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.

B.6.2 Data and parameters fixed ex ante

SDG13

Data/parameter	EFgrid,CM,y
Unit	tCO2/MWh
Description	Emission factor of the Turkish grid determined ex-ante. It's been published by the Ministry of Energy for 2018 on 03/09/2020.
Source of data	Ministry of Energy. Please see: https://enerjiapi.enerji.gov.tr/Media/Dizin/ETKB/Duyurular//0c6b62ea-bf2f-4fea-b9b3-28bc6f48ddf2_Bilgi_Formu_-_Web_Sitesi.pdf
Value(s) applied	0.6198
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 0,6993 tCO₂/MWh by the Ministry of Energy¹⁰.

Calculation of the Build Margin Emission Factor

It's been published as 0,3812 tCO₂/MWh by the Ministry of Energy¹¹.

Calculating of the Combined Margin Emission Factor

It's been published as 0,6198 tCO₂/MWh by the Ministry of Energy¹².

Baseline Emissions

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

¹⁰ Please see https://enerjiapi.enerji.gov.tr/Media/Dizin/ETKB/Duyurular//0c6b62ea-bf2f-4fea-b9b3-28bc6f48ddf2_Bilgi_Formu_-_Web_Sitesi.pdf

¹¹ Please see https://enerjiapi.enerji.gov.tr/Media/Dizin/ETKB/Duyurular//0c6b62ea-bf2f-4fea-b9b3-28bc6f48ddf2_Bilgi_Formu_-_Web_Sitesi.pdf

¹² Please see https://enerjiapi.enerji.gov.tr/Media/Dizin/ETKB/Duyurular//0c6b62ea-bf2f-4fea-b9b3-28bc6f48ddf2_Bilgi_Formu_-_Web_Sitesi.pdf

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

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)

$$\begin{aligned} BE_y &= 143,327 \times 0.6198 \\ &= 88,834 \text{ tCO}_2/\text{MWh} \end{aligned}$$

The net electricity is measured continuously by a power meter at the grid interface and recorded monthly. EPIAS 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 TEIAS.

Net electricity generation supplied by the project plant to the grid [MWh]	=	Electricity supplied to the grid [MWh]	-	Electricity consumption from the grid [MWh]
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Since the registered capacity of the project activity is different from the installed capacity due to design change, the baseline emissions and thus emissions reductions will be based on the 'adjusted net electricity supplied to the grid'. As the registered capacity (45MW) of the project is considered, the electricity generation and the emission reduction of the added units are ignored. This value will be calculated as below:

Adjusted net electricity supplied to the grid = $EG_{PJ,y}$ - Generation of Added Capacity Taken From the SCADA System¹³.

For the aim of reaching the actual values derived from the registered capacity, the generation of the added turbines taken from SCADA system of the project activity will be subtracted from the total generated amount which is monitored through the EPIAS records. After the subtraction, the remaining amount (be adjusted net electricity supplied to the grid) would represent the generation of the registered capacity.

Project Emissions

Since the project activity is a wind project,

$PE_y = 0$.

Leakage

In accordance with the ACM0002. (version 20), leakage is taken as zero since the project is a new power plant is taken as zero,

$LE_y = 0$.

Emission Reductions

$ER_y = BE_y - PE_y - LE_y$

Equation (2)

$ER_y = 88,834 \text{ tCO}_2/\text{MWh}$

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

Net Benefit to SDG 7

¹³This calculation was approved during the 2nd Verification of the Project Activity.

Year	Baseline estimate	Project estimate	Net benefit
20.08.2021 - 31.12.2021	0	52,619	52,619
2021	0	143,327	143,327
2023	0	143,327	143,327
2024	0	143,327	143,327
2025	0	143,327	143,327
2026	0	143,327	143,327
2027	0	143,327	143,327
01.01.2028 - 19.08.2028	0	90,708	90,708
Total	1,003,682	0	1,003,682
Total number of crediting years	7		
Annual average over the crediting period	1,003,682	0	1,003,682

Net Benefit to SDG 13

Year	Baseline estimate	Project estimate	Net benefit
20.08.2021 - 31.12.2021	32,613	0	32,613
2021	88,834	0	88,834
2023	88,834	0	88,834
2024	88,834	0	88,834
2025	88,834	0	88,834
2026	88,834	0	88,834
2027	88,834	0	88,834
01.01.2028 - 19.08.2028	56,221	0	56,221

Total	622,081	0	622,081
Total number of crediting years	7		
Annual average over the crediting period	622,081	0	622,081

Net Benefit to SDG 8

If the project hadn't been realized, there wouldn't be employment opportunity for employees. Therefore, achieved impact for this SDG is 14. 5 of the employees are local.

B.7. Monitoring plan

B.7.1 Data and parameters to be monitored

SDG 13

Data/parameter	ERy
Unit	tCO2/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, 0.6198 tCO ₂ /MWh, published by the Ministry of Energy
Value(s) applied	88,834
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 CO ₂ 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 ¹⁴

¹⁴EPIAS records

Value(s) applied	The annual electricity fed to the grid is estimated as 143,327 MWh															
Measurement methods and procedures	<p>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.</p> <p>Net electricity generation supplied by the project plant to the grid [MWh] = Electricity supplied to the grid [MWh] - Electricity consumption from the grid [MWh]</p> <p>Meters information:</p> <table border="1"> <thead> <tr> <th>Specifications</th> <th>Main meter</th> <th>Spare Meter</th> </tr> </thead> <tbody> <tr> <td>Manufacturer:</td> <td>EMH</td> <td>EMH</td> </tr> <tr> <td>Serial No:</td> <td>4241393</td> <td>4241394</td> </tr> <tr> <td>Latest Test Date of the Meters</td> <td>10.07.2018</td> <td>10.07.2018</td> </tr> <tr> <td>Accuracy Class:</td> <td>0.2 S</td> <td>0.2 S</td> </tr> </tbody> </table>	Specifications	Main meter	Spare Meter	Manufacturer:	EMH	EMH	Serial No:	4241393	4241394	Latest Test Date of the Meters	10.07.2018	10.07.2018	Accuracy Class:	0.2 S	0.2 S
Specifications	Main meter	Spare Meter														
Manufacturer:	EMH	EMH														
Serial No:	4241393	4241394														
Latest Test Date of the Meters	10.07.2018	10.07.2018														
Accuracy Class:	0.2 S	0.2 S														
Monitoring frequency	Continuous measurement and at least monthly recording															
QA/QC procedures	Please check section B.7.3 for the monitoring plan															
Purpose of data	<p>Calculation of emission reductions</p> <p>SDG 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix</p>															

Additional comment	-
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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	<p>14</p> <ul style="list-style-type: none"> • 1 Operation Manager • 3 O&M Technicians • 4 Control Operators • 4 Security Staff (Subcontractor-Akdeniz Security) • 1 Information Staff • 1 O&M Technician (Nordex) <p>5 employees are local.</p>
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	

Data/parameter	<p>a)Number of employees to be trained for the construction and operation of the plant</p> <p>b)Fair wage, working hours and occupational injuries</p>
Unit	<p>a)N/A</p> <p>b) N/A</p>
Description	<p>a)The project proponent aims for improvement of safety for labour providers. The workers were benefit from trainings on construction health and safety.</p> <p>b)The social security conditions provided to the employees</p>
Source of data	<p>a)The number of trainings and attendance of employees have been monitored by documents (Training Records).</p> <p>b)Social Security Records</p>
Value(s) applied	<p>a)Training and attendance certificates have been provided to the VVB.</p> <p>b) Social Security Records</p>
Measurement methods and procedures	N/A
Monitoring frequency	Yearly
QA/QC procedures	N/A
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 store. The consultant calculates emission reductions based on these monitored data and prepare 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 of the electricity supplied and consumed by the project and shall be taken into account for emission reduction calculations.

Two power meters are installed at the grid interface of the project. One is the main meter and the other is 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.

The capacity of the transmission line connected is 154 kVA, the accuracy class for main power meters have been defined in the Communiqué for Power Meters as 0.2S class. The back-up meter have the same accuracy class of 0.2S. 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 years.

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 monthly basis.

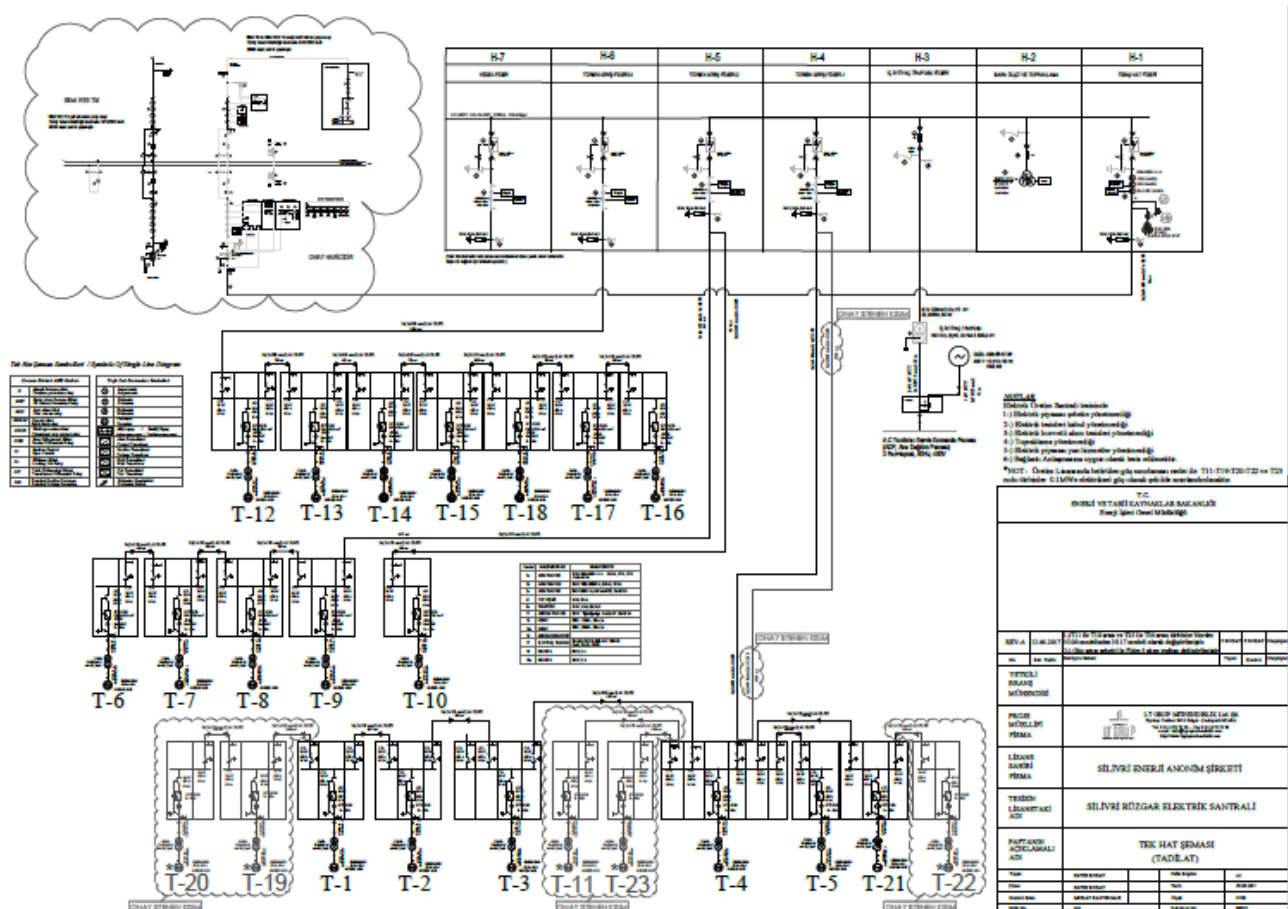


Figure 5. Single line diagram of the Project

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.

Considering the Sustainable Development Matrix Indicators stated in the first crediting period has been simplified in sections B.7.1 and D.1.

SECTION C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1 Start date of project

20/08/2014¹⁵

C.1.2 Expected operational lifetime of project

25 years¹⁶

C.2. Crediting period of project

C.2.1 Start date of crediting period

Start date of the first crediting period: 20/08/2014

End date of the first crediting period: 19/08/2021

¹⁵ This is the date of agreement for equipment contract with Nordex which is also stated in the registered PDD.

¹⁶ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-10-v1.pdf>

Start date of the second crediting period: 20/08/2021

End date of the second crediting period: 19/08/2028 (both dates are included)

C.2.2 Total length of crediting period

Since this is second crediting period of the Project Activity, 7 years, renewed once.

SECTION D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1 Safeguarding Principles that will be monitored

Data/parameter	Waste oil disposal
Unit	N/A
Description	The Project Participant shall ensure that the waste oil is transferred and disposed in line with the regulations
Source of data	Through visual inspection or through evidence of disposal
Value(s) applied	N/A
Measurement methods and procedures	N/A
Monitoring frequency	Once for each monitoring period
QA/QC procedures	N/A

Purpose of data	To monitor compliance to Safeguarding Principle 4.3.5: Hazardous and Non-hazardous Waste
Additional comment	-

Data/parameter	Air Quality
Unit	tons
Description	Amount of annual net electricity generation, which is calculated by monthly EPIAS records, will be used to calculate estimated CO and NMVOC emission reductions by project activity.
Source of data	Data available from TÜİK: http://www.tuik.gov.tr/PreHaberBultenleri.do?id=16174 Since the latest data of CO and NMVOC emissions from the electricity sector are available for the year 2012, the rate between the Net Electricity Generation in 2012 and CO and NMVOC emissions of 2012 have been used to calculate the emission reductions for this monitoring period.
Value(s) applied	CO: 0.160 tons and NMVOC: 0.034 tons per each GWh electricity generated
Measurement methods and procedures	The amount of reduced CO and NMVOC are calculated through the amount of electricity delivered to the grid through EPIAS records
Monitoring frequency	Once for each monitoring period
QA/QC procedures	N/A
Purpose of data	To monitor compliance to Safeguarding Principle 4.3.4 (Release of pollutants)

Additional comment	-
Data/parameter	Water Quality and Quantity
Unit	m3
Description	Amount of wastewater to be discharged to the environment Wastewater produced by workers during operation is collected in an impermeable septic tank and later they are periodically transferred to wastewater treatment plant.
Source of data	-Data available from TUIK: http://www.tuik.gov.tr/PreHaberBultenleri.do?id=16175 The data for thermal power plants' wastewater indicators which were available during registration (2012 by TUIK), have been used to calculate the avoided wastewater discharge to the environment per year during the monitoring period. -Regarding Total Electricity Generation for 20126, TEIAS official data have been used: https://www.teias.gov.tr/tr/turkiye-elektrik-uretim-iletim-istatistikleri/2012 -Records of transfer of wastewater from power plant by sewage truck, if it was performed, will be used to demonstrate proper wastewater management
Value(s) applied	Avoidance of 26.3 m3 wastewater to be discharged the environment due to each GWh electricity produced.
Measurement methods and procedures	The amount of avoided wastewater is calculated through the amount of electricity delivered to the grid through EPIAS records.
Monitoring frequency	Once for each monitoring period
QA/QC procedures	N/A

Purpose of data	To monitor compliance to Safeguarding Principle 4.3.4 (Release of pollutants)
Additional comment	-

Data/parameter	Biodiversity
Unit	N/A
Description	Observation of carcass/nest in the Project area
Source of data	Records by assigned technician by Plant Manager
Value(s) applied	Number of carcass/nest
Measurement methods and procedures	Assigned technician by Plant Manager will monitor carcass/nest in the Project area and keep records in case of a carcass/nest
Monitoring frequency	Once for each monitoring period
QA/QC procedures	N/A
Purpose of data	To monitor compliance to Safeguarding Principle 4.3.11: Endangered Species
Additional comment	-

<u>Data/parameter</u>	<u>Impact on objects or structures of significant cultural heritage</u>
<u>Unit</u>	<u>N/A</u>
<u>Description</u>	<u>The Project Participant shall ensure that there in't any damage or negative impact to the archaeological site.</u>

<u>Source of data</u>	<u>Through visual inspection or interviews with local stakeholders</u>
<u>Value(s) applied</u>	<u>There hasn't been any damage or negative impact to the archeological site.</u>
<u>Measurement methods and procedures</u>	<u>N/A</u>
<u>Monitoring frequency</u>	<u>During 1st verification after CP renewal</u>
<u>QA/QC procedures</u>	<u>N/A</u>
<u>Purpose of data</u>	<u>To monitor compliance to Safeguarding Principle 4.1. Sites of Cultural and Historical Heritage</u>
<u>Additional comment</u>	<u>=</u>

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

<p>Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?</p>	<p>The Project provides equal opportunity for women and men to contribute both in volunteer and working positions.</p> <p>The project owner takes into account participation by both men and women.</p> <p>The access of women or men, as the case may be, to Project participation and benefits is not limited.</p> <p>Regarding the Project Activity, the carbon consultant of the Project Activity is also woman.</p>
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<p>Question 2 - Explain how the project aligns with existing country policies, strategies and best practices</p>	<p>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.</p> <p>Turkey signed the convention of International Labour Organization. The related articles are 100 and 111.</p> <p>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.</p>
<p>Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?</p>	<p>No</p>
<p>Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?</p>	<p>No</p>

SECTION E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

E.1 Summary of stakeholder mitigation measures

The Gold Standard Organization requires two round stakeholder process for inclusion of stakeholder in design of the project. One is Local Stakeholder Consultation meeting which was held on 1st of September 2015 for this project. The report of Local Stakeholder Consultation Meeting of Silivri WPP was submitted to Gold Standard Organization enabling the project to be listed on GS webpage. The second part of the Consultation is Stakeholder Feedback Round which was held between 16th November 2015. During 2-month period, all project information was published on web site enabling stakeholders to reach and comment on the documents.

While second consultation process of Gold Standard does not include a physical meeting with stakeholders, the publication of project documents aimed that all invitees of first meeting could reach the documents through internet access.

An evaluation form was provided to local people with project documents that could be filled in easily to provide comments. Up to now, there was no comments and requests from invitees.

Till end of validation process, there were opportunity for invitees to give feedback. During feedback period, there was no comment directed to e-mail or postal addresses provided in invitation letter. As result, there was no comment during stakeholder feedback round which would require amendments in PDD.

Although no negative comments have been received during the stakeholders' process, the Project Owner is aware of the importance of the project for the region and wants to further contribute to the social and sustainable development of the region. As an outcome of the close communication and relation with local community, the project owner implemented several measures and provided beneficial contributions to the region.

Regarding the renewable crediting period, an online meeting with DOE was made on 02/06/2021. During the 1st Crediting Period, two monitoring periods have been verified and required site visits by the VVB were realized. 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. Signed letters by the Mukhtars have been provided as declaring that the related information has been available to the villagers. 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.

During the first crediting period, there has not been any complaint from the stakeholders regarding the project activity.

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. Expression process books are located at Mukhtars' offices ¹⁷ . The project owner regularly checks with the Mukhtar if any complaint or a request exists. Signed letters by the Mukhtars have been provided as declaring that the related information has been available to the villagers. 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	Taner Akkan taner.akkan@iltekenerji.com.tr

¹⁷ The photos have been provided.

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. ¹⁸ 2. The project owner respects internationally proclaimed human rights including dignity, cultural property and	Not required

¹⁸Please See Official Website of Ministry of Foreign Affairs of Turkey: <http://www.mfa.gov.tr/the-european-convention-on-human-rights.en.mfa>

<p>the Universal Declaration of Human Rights</p> <p>2. The Project shall not discriminate with regards to participation and inclusion</p>		<p>uniqueness of indigenous people. The project is not complicit in Human Rights abuses.</p>	
<p>Principle 2. Gender Equality</p>			
<p>1. The Project shall not directly or indirectly lead to/contribute to adverse impacts on gender equality and/or the situation of women</p> <p>2. Projects shall apply the principles of nondiscrimination, equal treatment, and equal pay for equal work</p> <p>3. The Project shall refer to the country’s national gender strategy or equivalent national commitment to aid in assessing gender risks</p>	<p>YES</p>	<p>1. a. No, the project does not reduce access to or control of resources for women.</p> <p>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.</p> <p>c. The project does not involve and is not complicit in any form of discrimination based on gender, race, religion,</p>	<p>Not required</p>

<p>4. (where required) Summary of opinions and recommendations of an Expert Stakeholder(s)</p>		<p>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</p>	
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		<p>gender, race, religion, sexual orientation or any other basis.</p> <p>h.No, the project does not expose women and girls to further risks or hazards.</p> <p>2. a.The project does not lead or contribute sexual harassment and/or any forms of violence against women.</p> <p>b. There is no such risk for the project. Participation in the project is voluntary.</p> <p>c. The project does not restrict women’s rights or access to resources (natural or economic).</p> <p>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.</p>	
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		<p>3.a. The Project provide equal opportunity for women and men to contribute both in volunteer and working positions.</p> <p>b. The project owner takes into account participation by both men and women.</p> <p>3. The access of women or men, as the case may be, to Project participation and benefits is not limited.</p> <p>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.</p> <p>Turkey signed the convention of International Labour Organization. The related articles are 100 and 111.</p>	
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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
>>>			

		<p>environmental heritage is protected against alteration, damage or removal by the law.¹⁹</p> <p><u>There hasn't been any damage or negative impact to the archaeological site as per the approval letter by the relevant governmental authority (Istanbul First Regional Council of Cultural Heritage Protection). Besides that, no complaint has been received during the interviews.</u></p> <p>As it was approved during the last monitoring period, the</p>	
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¹⁹ Reference: "Law on Protection of Cultural and Environmental Assets"

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

		Project Activity has the permissions by the Ministry of Culture and Tourism as a requirement of the project approval process ²⁰ .	
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
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?	No	a. There is no resettlement issue associated with the Project. The project does not cause any resettlement.	Not required

²⁰The permission has been provided to the VVB.

<p>b. For Projects involving land use tenure, are there any uncertainties with regards to land tenure, access rights, usage rights or land ownership?</p>		<p>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.</p>	
		<p>b. There are no uncertainties with regards land tenure, access rights, usage rights or land ownership.</p>	
<p>Principle 4.4 - Indigenous people</p>			
<p>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?</p>	<p>No</p>	<p>There is no resettlement issue associated with the Project. There was not house in the project area, thus the project did not cause any resettlement.</p>	<p>Not required</p>
<p>Principle 5. Corruption</p>			
<p>1. The Project shall not involve, be complicit in or inadvertently</p>	<p>YES</p>	<p>The Project does not involve, be complicit in or inadvertently contribute to or</p>	<p>Not required</p>

<p>contribute to or reinforce corruption or corrupt Projects</p>		<p>reinforce corruption or corrupt Projects</p>	
<p>Principle 6.1 Labour Rights</p>			
<p>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</p> <p>2. Workers shall be able to establish and join labour organisations</p> <p>3. Working agreements with all individual workers shall be documented and implemented and include:</p> <p>a) Working hours (must not exceed 48 hours</p>	<p>YES</p>	<p>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.</p> <p>2. Workers are able to establish and join labour organisations.</p> <p>3. Working agreements with all individual workers are</p>	<p>Not required</p>

<p>per week on a regular basis), AND</p> <p>b) Duties and tasks, AND</p> <p>c) Remuneration (must include provision for payment of overtime), AND</p> <p>d) Modalities on health insurance, AND</p> <p>e) Modalities on termination of the contract with provision for voluntary resignation by employee, AND</p> <p>f) Provision for annual leave of not less than 10 days per year, not including sick and casual leave.</p> <p>4. No child labour is allowed (Exceptions for children working on their families' property requires an Expert Stakeholder opinion)</p>		<p>documented and implemented.</p> <p>The employment model applied.</p> <p>is locally and culturally appropriate.</p> <p>4. Child labour, as defined by the ILO Minimum Age Convention is not allowed.</p> <p>5. The use of appropriate equipment, training of workers, documentation and reporting of accidents and incidents, and emergency preparedness and response measures are provided.</p>	
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<p>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</p>			
<p>Principle 6.2 Negative Economic Consequences</p>			
<p>1. Does the project cause negative economic consequences during and after project implementation?</p>	<p>No</p>	<p>1. Financial Sustainability of the project has been discussed under Section B.5. The calculations are for the entire life of the project.</p> <p>2. There are no negative economic impacts or potential risks to the local economy deriving the project activity.</p>	<p>Not required</p>
<p>Principle 7.1 Emissions</p>			

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
>>			
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	Not required

		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.	
Principle 8.2 Erosion and/or Water Body Instability			
<p>a. Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion?</p> <p>b. Is the Project’s area of influence susceptible to excessive erosion and/or water body instability?</p>	No	<p>a. No. The project activity has developed activities for prevention of soil erosion.</p> <p>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.</p> <p>b. No.</p>	Not required
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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 vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	No	The Project will not be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions.	Not required
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	No	The project is not impacted by the use of genetically modified organisms or GMOs.	Not required

that include GMOs in their processes and production)?			
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 related regulations of Ministry of Environment and Urbanization.	Not required
>>		<p>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.</p> <p>Regarding the noise impact, the turbines which have been used in the Project activity</p>	

		<p>produce relatively low mechanical noise.</p> <p>Since the project activity is 2.2 km far away from the nearest village, there hasn't been any negative impact to stakeholders and no complaint has been received for both noise and shadow flickering effect. And during the 1st CP of the project activity no complaint has been received regarding noise or shadow flickering of the turbines.</p>	
<p>Principle 9.5 Hazardous and Non-hazardous Waste</p>			
<p>Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?</p>	<p>No</p>	<p>During operation of the project activity, there are no positive nor negative impacts expected. During excavation</p>	<p>Not required</p>

>>		<p>and construction no hazardous, toxic or flammable materials have not been used.</p> <p>Hazardous wastes are handled appropriately in closed containers and transported by licensed transporters to the licensed processing and disposal facilities.</p>	
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, landscapes, key biodiversity areas or sites identified.	Not required
Principle 9.11 Endangered Species			

<p>a. Are there any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)?</p> <p>b. Does the Project potentially impact other areas where endangered species may be present through transboundary affects?</p>	<p>No</p>	<p>a. There aren't any endangered species identified as potentially being present within the Project boundary (including those that may route through the area)</p> <p>b. The Project does not potentially impact other areas where endangered species may be present through transboundary affects.</p>	<p>Not required</p>

APPENDIX 2- CONTACT INFORMATION OF PROJECT PARTICIPANTS

Organization name	Eksim Enerji A.Ş.
Registration number with relevant authority	
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Contact person	

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