

PROJECT DESCRIPTION

Günaydın Wind Power Plant consists of 5 x 2.5 MW turbines with a rotor diameter of 100 m and a hub height of 85 m. The Günaydın Wind Farm will be connected to the national electricity grid through a 30 km length transmission line, which is part of the project. The plant will have a capacity factor of 42 % and is expected to produce 36 GWh/year equivalent to cover the demand for over 16 thousand households. The energy produced will allow saving over 21,300 tCO₂/year.

CARBON FINANCE

The Project Sponsor considered applying for carbon financing and is in the process of obtaining the GS certification. The preparation of the PDD is already started.

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Landscape Impact Assessment
- Potential pollution/contaminant emissions during construction activities
- Landscape Impact Assessment;
- Bird species;
- Community health and safety both during construction and operation phases;
- Presence of other WPPs in the surroundings;
- Noise

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- Supervision of the construction activities by environmental, social and health & safety
- Photo-impact to allow an adequate level of awareness of stakeholders about the visual impact,
- Seasonal bird migration monitoring to control the potential adverse impacts on bird species;
- Study, identification and implementation of mitigation measures to minimize the effect of the project on the community health and safety in case
- Noise monitoring during operation to assure a noise acceptable level for the close settlements;

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GENERAL INFORMATION

Project Location	Manyas District, Balıkesir Province
Technology	Wind Power Plant
Plant Capacity	12.5 MWm
Annual Energy Production	36 GWh/year
Annual CO₂ Reduction	21,300 tCO ₂ /year

TIME SCHEDULE

Start of Construction	April 2012
Expected Commercial Operation	January 2013

FINANCIAL PARAMETERS

Total Project Cost	EUR 15,400,000
MidSEFF Loan	EUR 4,500,000
Payback Time	5.8 years
Internal Rate of Return	13.5 %