

Karadere Wind Power Plant

Payback

of Return

Time

Developed by



Supported by





PROJECT DESCRIPTION

Karadere Wind Power Plant consists of 10 x 1.6 MWe turbines with a rotor diameter of 100 m and a hub height of 80 m. The Karadere Wind Farm will be connected to the national electricity grid through a 33.7 km length transmission line, which is part of the project. The plant will have a capacity factor of 41.3% and is expected to produce 53.214 GWh/year equivalent to cover the demand for over 16 thousand households. The energy produced will allow saving over 31,811 tCO₂/year.



CARBON FINANCE

Karadere Wind Power Plant (WPP) project is being planned as a Gold Standard GHG emission reduction project and the project is currently in process of carbon certification. The Sponsor signed a contract with a carbon consultant.



ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction activities;
- Bird species;
- Presence of other WPPs in the surroundings;
- Noise;
- Use of forestry area.



MITIGATIONS/SUCCESSFUL IMPLEMENTATION
Supervision of the construction activities by environmental, social and Internal Rate health & safety;

- Seasonal bird migration monitoring to control the potential adverse impacts on bird species;
- Noise monitoring during operation to assure a noise acceptable level for the close settlements;
- The Sponsor is waiting for forestry permit;
- Photo-impact simulation required to allow an adequate level of awareness of stakeholders about the visual impact of the project considering also other project in the surroundings;
- Stakeholder Engagement Plan implementation to involve and inform the stakeholders and to reduce the risk of conflicts with ensuring good public relations.

GENERAL INFORMATION	
Project Location	Kırklareli Province
Technology	Wind Power Plant
Plant Capacity	15 MWm
Annual Energy Production	53.214 GWh/year
Annual CO ₂ Reduction	31,811 tCO ₂ /year
TIME SCHEDULE	
	TIME SCHEDULE
Start of Construction	November 2012
Start of	
Start of Construction Expected Commercial Operation	November 2012
Start of Construction Expected Commercial Operation	November 2012 September 2013

6.7 years

16.4 %