

PROJECT DESCRIPTION

Pitane Wind Power Plant consists of 2 x 2.4 MWe turbines with a 117 rotor diameter of m and a hub height of 91 m. Energy generated at the WPP is planned to be transmitted to Bergama Substation through energy transmission line (ETL). The plant will have a capacity factor of 40 % and is expected to produce 16.40 GWh/year. The energy produced will allow saving over 9,660 tCO₂/year.

CARBON FINANCE

Pitane 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

- 🌀 Landscape Impact ;
- 🌀 Impact on Bird species;
- 🌀 Disturbance to people and fauna due to noise emissions;
- 🌀 Community/workers health and safety (construction and operation phases);

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- 🌀 Photo-impact simulation required to allow an adequate level of awareness of stakeholders on visual impact;
- 🌀 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;
- 🌀 Study, identification and implementation of mitigation measures to minimize community/workers health and safety.

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GENERAL INFORMATION

Project Location	Izmir Province
Technology	Wind Power Plant
Plant Capacity	4,8 MWm
Annual Energy Production	16.40 GWh/year
Annual CO ₂ Reduction	9,960 tCO ₂ /year

TIME SCHEDULE

Start of Construction	July 2014
Expected Commercial Operation	February 2015

FINANCIAL PARAMETERS

Total Project Cost	EUR 7,714,710
MidSEFF Loan	EUR 5,600,000
Payback Time	6.7 years
Internal Rate of Return	11.4 %