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PROJECT DESCRIPTION

Söke Wind Power Plant consists of 15 x 3.0 MWe turbines with a rotor diameter of 90 m and a hub height of 90 m. The Söke Wind Farm will be connected to the national electricity grid through a 20 km length transmission line, which is part of the project. The plant will have a capacity factor of 38.5 % and is expected to produce 141.1 GWh/year equivalent to cover the demand for over 43 thousand households. The energy produced will allow saving over 84,840 tCO₂/year.

CARBON FINANCE

Söke Wind Power Plant (WPP) project is being planned as a Gold Standard GHG emission reduction project. The certification process has not been initiated yet nor the carbon consultant has contracted.

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
- Sesimic Zone

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- Supervision of the construction activities by environmental, social and 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.
- During the foundation design the effective ground acceleration coefficient will be taken 0.40.

GENERAL INFORMATION

Project Location	Aydın Province
Technology	Wind Power Plant
Plant Capacity	45 MWm
Annual Energy Production	141.1 GWh/year
Annual CO₂ Reduction	84,840 tCO ₂ /year

TIME SCHEDULE

Start of Construction	December 2013
Expected Commercial Operation	July 2014

FINANCIAL PARAMETERS

Total Project Cost	EUR 48,167,325
MidSEFF Loan	EUR 27,300,000
Payback Time	4.9 years
Internal Rate of Return	22.2 %