

## PROJECT DESCRIPTION

The location of Umurlar Wind Power Plant (WPP) extension project is a mountainous area of Balikesir province, in the neighboring of Umurlar village. The license covers 36.4 MWe installed power out of which 10 MWe has been put into operation in September 2014. The investment subjecting to this project is for the evaluation of the extension investments for the construction of the remaining facilities consisting of 8 turbines that will provide an additional 26.4 MWe installed power. The electricity generation from a renewable source will replace the electricity from the national grid and enable reduction of 37,965 tonnes of CO<sub>2</sub> equivalent gases per year, as calculated for the base case scenario of electricity generation.

## CARBON FINANCE

The Project Sponsor has not been considered carbon finance yet.

## ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction;
- Community/workers health and safety both during construction and operation phases;
- Impacts on landscape;
- Bird species;
- Noise;
- Stakeholder engagement.

## MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- Supervision of construction activities by Environmental, Health and Safety Experts,
- Photo-impact simulation required to allow an adequate level of awareness of stakeholders on visual impact of the project,
- Seasonal bird migration monitoring campaign for the first 2-year of operation and the implementation of the necessary mitigation measures to control the adverse impact of the plant on bird species,
- Noise monitoring campaign is expected during operation to assure an acceptable noise level around the close vicinity.
- Stakeholder Engagement Plan implementation to involve and inform the stakeholders and to reduce the risk of conflicts with ensuring good public relations.

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### GENERAL INFORMATION

<b>Project Location</b>	Umurlar District, Balikesir Province
<b>Technology</b>	Wind Power Plant
<b>Plant Capacity</b>	26.4 MWe
<b>Annual Energy Production</b>	63.7 GWh/year
<b>Annual CO<sub>2</sub> Reduction</b>	37,965 tCO <sub>2</sub> /yil
TIME SCHEDULE	
<b>Start of Construction</b>	September 2016
<b>Expected Commercial Operation</b>	April 2017
FINANCIAL PARAMETERS	
<b>Total Project Cost</b>	EUR 31,400,000
<b>MidSEFF Loan</b>	EUR 6,050,000
<b>Payback Time</b>	10 years
<b>Internal Rate of Return</b>	9.5%