

## PROJECT DESCRIPTION

The location of Soma Wind Power Plant (WPP) extension project is located on a mountainous area in western Turkey, Soma District of Manisa Province. The license covers a 120 MWe installed power, of which 36 turbines with 90 MWe capacity has been put into operation starting from August 2010. The investment evaluation subject to this project is the extension investments for the construction of the remaining facilities consisting of 10 turbines that will provide an additional 30 MWe installed power. The electricity generation from a renewable source will replace the electricity from the national grid and enable reduction of 67,726 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;
- Landscape Impact Assessment
- Cumulative Impact Assessment
- 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,
- 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;
- Identification and assessment of potential cumulative impacts with other existing/planned plants and ancillary works.

Developed by



European Bank  
for Reconstruction and Development

Supported by



GENERAL INFORMATION	
Project Location	Soma District, Manisa Province
Technology	Wind Power Plant
Plant Capacity	30.0 MWe
Annual Energy Production	108.6 GWh/year
Annual CO <sub>2</sub> Reduction	67,726 tCO <sub>2</sub> /year
TIME SCHEDULE	
Start of Construction	June 2016
Expected Commercial Operation	November 2016
FINANCIAL PARAMETERS	
Total Project Cost	EUR 31,386,848
MidSEFF Loan	EUR 8,400,000
Payback Time	5.6 year
Internal Rate of Return	18.5%