



## Turkey: Yuntdag Wind Power Project

### Short description

The purpose of the project is to generate electricity in order to feed it into the public grid. Because of its significant contribution to climate protection and to sustainable development in the region, the project is expected to fulfil the requirements of the Gold Standard.

- **Project type:** Renewable energies, wind
- **Type of certificate:** VER
- **Quality standard:** The project is a registered Gold Standard project.

### Project background

The project is the second largest wind farm in Turkey so far. It consists of 17 wind turbines that are connected to the wind farm substation through underground cables. The entire net electricity production is expected to be 160,834 MWh per year.

The project helps to stimulate and commercialise the use of grid connected renewable energy technologies and markets. It demonstrates the viability of grid connected wind farms which can support improved energy security, improved air quality, alternative sustainable energy futures, improved local livelihoods and sustainable renewable energy industry development.

The specific goals of the project are to:

- reduce greenhouse gas emissions in Turkey compared to the business-as-usual scenario,
- help to stimulate the growth of the wind power industry in Turkey,
- create local employment during the construction and the operation phase of the wind farm,
- reduce other pollutants resulting from power generation industry in Turkey, compared to a business-as-usual scenario,
- help to reduce Turkey's increasing energy deficit and
- differentiate the electricity generation mix and reduce import dependency.

The emission reductions are generated by substituting electricity produced from the conventional mix which to a relevant extent depends on fossil fuels. The emission reductions will be calculated based on the Combined Margin (CM) emission factor.

### Sustainable development

The project contributes to sustainable development in Turkey in the following ways:

- **Environmental benefits:** Wind energy does not result in emissions of pollutants into the atmosphere nor does it emit residuals that can have a negative impact on soil, water etc. As a renewable energy source wind energy can be used without putting the supply of primary energy sources into danger for future generations. The proposed project contributes to a reduction in other emissions than GHG emissions related to conventional electricity generation, like emissions of sulphur dioxide, nitrogen oxides and particulates.
- **Economic benefits:** The project results in extra local employment especially during the construction phase. Construction materials for foundations, cables and access roads are sourced locally.
- **Social benefits:** The project stakeholders as well as the local population were from the very beginning convinced of the project's positive impact. A local poll in July 2007 proved its positive impact. External surveys and experts opinions summed up in a Sustainable Development Assessment Matrix came up with an overall score of +13 while no negative impacts of the project were identified.



Europe

