



Sustainability action · Project Renewable Energy and Energy Efficiency

Ziyaret wind power, Turkey

This wind farm at the shore of the Mediterranean Sea is contributing to the further development of renewable energy generation Turkey, a country still heavily dependent on fossil fuels.

Project

The onshore wind farm consists of 23 GE 2.5xl-50 H wind turbines, each having a capacity of 2.5 MW. In total, the project sums up to a total installed capacity of 57.5 MW. On average, the wind farm generates 193'000 MWh of electricity for the Turkish electricity grid per year. The first 5 turbines with a total of 12.5 MW capacity

were commissioned on 15 July 2010. The next 9 turbines were commissioned on 13 October 2010, bringing total capacity to 35 MW. The last 9 turbines were commissioned on 24 November 2011. By then, the full 57.5 MW were operational.

In September 2013, Ziyaret earned *The Turkish Energy Oscar* in the wind category for its contribution to the development of renewable energy in the country. It competed against 50 of Turkey's leading energy companies.



Location

The project is situated near Samandağ, in Turkey's Southern province of Hatay. The turbines were erected on the slopes of the Nur mountains, close to the ancient city of Antioch (Antakya). They stand on a ridge at an elevation of 200-500 m.

Project achievements

Socio-economic impact

- **One hundred jobs were created during the construction of the plant.** For the operation of the wind farms, long term employment for about 24 locals was set up. These jobs provide social insurance and other benefits in a region that is characterised by unregistered jobs in agriculture.
- **The employees receive regular training** on health and safety, first aid, fire, high voltage, risk analysis, emergencies, and security.
- **Grants have been given to Aknehir municipality** to purchase useful goods, including a truck for waste collection. The Samandağ coast at the Mediterranean Sea is cleaned with this truck.
- **Scholarships** are given to students.
- **A library has been set up** in the Aknehir elementary school.



Environmental impact

- The project provides enough clean energy to power over 22'700 households (assuming the average household size of 4.2 in Hatay province and average electricity consumption of 2018 kWh per capita in Turkey). At the same time, it avoids upstream environmental and health impacts of fossil-fuel extraction, processing and distribution, such as respiratory illness and acid rain.
- No trees have been cut down during the construction works. In an ongoing attempt to improve environmental conditions, the project operators have already planted 5000 trees.
- The location of the wind park was chosen in order not to affect birds' migration routes, using Doga Dernegi Nature Society's Migrating Birds Map. Any possible impact on birds is being monitored. To date, no negative developments were reported.
- The project has a strict waste management plan, with adequate disposal of waste and recycling of scrap.

Checklist Project 301366

Commercial Operation Date

15 July 2010 (first 5 turbines), 13 October 2010 (9 turbines)
24 November 2011 (9 turbines)

Total capacity

57.5 MW

Estimated Annual Electricity Generation

193'000 MWh

Quality Assurance and Verification

Annual audit provided by PWC
Annual electricity verified by Bureau Veritas

Transparency

RECs listed in GoldPower Register (<http://goldpower.net/goldpowerregister>)
Underpinning carbon credits retired in the Markit Registry

Marketing material

High-resolution pictures available

Reportability

Meets GHG Protocol Scope 2 Guidance criteria

GoldPower credentials projects certified by



GoldPower credentials reportable under



thesouthpolegroup.com/renewable_energy

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