



Dhofar Wind Power Project

Dhofar, Oman

Masdar has delivered the first large-scale wind farm in the Gulf Cooperation Council (GCC) region. The 50 megawatt (MW) project is being constructed in the Dhofar Governorate, in the Sultanate of Oman. The project is a direct result of strong, bilateral ties between the United Arab Emirates and Oman. Funding for the wind farm is provided by the Abu Dhabi Fund for Development (ADFD), the UAE's leading national entity for development aid.

A feasibility study confirmed the suitability of a wind energy project in Dhofar. The Thumrait plateau, where the project is currently constructed, provides ideal conditions for the wind farm, with average wind speeds of 7-8 metres per second.

The project comprises 13 wind turbines developed by GE, each with an electricity generation capacity of 3.8MW. The turbines represent the latest development in GE's wind turbine platform, increasing both annual energy production and flexibility in operation.

The electricity generated by the Dhofar project will support Oman's increasing energy demand and economic growth. The wind farm will reduce domestic reliance on gas for electricity generation, which can be redirected toward more valuable industrial uses and preserve natural gas resources.

Construction began in the first quarter of 2018 and commercial operation was achieved in November 2019.

QUICK FACTS

- Installed capacity of 50MW
- Accounts for 7% of electricity in the Dhofar Governorate
- Displaces 110,000 tonnes of CO2 emissions per year
- Powers 16,000 homes