



Dhofar Wind Power Project

Dhofar, Oman

Masdar is delivering the first large-scale wind farm in the Gulf Cooperation Council (GCC) region. The 50 megawatt (MW) project is being constructed in the Sultanate of Oman, in the Dhofar Governorate. 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 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 growing 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 with the Commercial Operation Date expected for Q3 2019.

Quick facts

- Installed capacity of 50MW
- Will account for 7% of electricity in the Dhofar Governorate
- Will displace 110,000 tonnes of CO₂ emissions per year
- Will power 16,000 homes