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USA's largest onshore wind farm is under construction

North America, Worldwide, Carbon Reduction, COP 23, Sustainable Energy, Tech. & Innovation

North American renewable energy company, Invenergy, and General Electric Renewable Energy, have begun construction on what will be the USA's largest onshore wind farm, of 2 GW.

The Wind Catcher wind farm, located in Oklahoma, will host 800 General Electric turbines once completed, and should save energy users a total of \$7 billion over 25 years.

The project will consist of 800 General Electric 2.5 MW turbines- these are the latest wind turbine model produced by GE and have increased energy efficiency.



Once operational, it is predicted that these turbines will provide clean energy to over 1.1 million utility customers across 4 U.S states.

Oklahoma has a high potential capacity for wind power, which makes it an ideal location for the project; in 2016 Oklahoma's installed wind generation capacity was 6,000 megawatts, and supplied roughly a quarter of the state's generated electricity.

According to Energy Live News, the project will support 4,000 direct jobs for each year of its construction, and 80 permanent jobs once it goes live in 2020.

The project is part of a larger, \$4.5 billion project that includes a planned 350 mile long high voltage power line.

The wind farm will be the second largest wind farm in the world, after the non-operational Gansu Wind Farm in China, which has 7,000 wind turbines with the ability to generate enough energy to power a small country.

China's plans to dominate the global renewable energy market are demonstrated by the fact that one of every three wind turbines in the world is now in China.

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2GW wind farm? Then consult the **Wind, storage and back-up system designer** Wind Generation Capacity Focus Table with Wind Power set to 2000 MW.

<http://scottish.scienceonth...>

Peak demand, wind and back-up power / energy usage and storage capacity calculator

For the specification and design of renewable energy electricity generation systems which successfully smooth intermittent wind generation to serve customer demand, 24 hours a day, 7 days a week and 52 weeks a year.

Adopting the recommendation derived from scientific computer modelling that the energy storage capacity be about 5 hours times the wind power capacity, the tables offer rows of previously successful modelled system configurations - row A, a configuration with no back-up power and rows B to G offering alternative ratios of wind power to back-up power. Columns consist of adjustable power and energy values in proportion to fixed multiplier factors.

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