

## **SolarTech Power Solutions**

# **Wind and solar power generation solutions for UAE communication base stations**



## Overview

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What is the UAE wind program?

The project leverages advances in technology, material science and aerodynamics to capture low wind speeds at utility scale, paving the way for further projects. The UAE Wind Program is expected to power more than 23,000 UAE homes a year.

What does a 103.5 MW wind project mean for the UAE?

The 103.5-megawatt (MW) landmark project will introduce cost-effective, large-scale, utility wind power to the UAE's electricity grid, further diversifying the country's energy mix and advancing its energy transition.

Where are UAE's wind farms located?

The other wind farm locations include Delma Island (27MW), and Al Sila in Abu Dhabi (27MW), as well as Al Halah in Fujairah (4.5MW). Previously, wind energy was not viable at utility scale due to low wind speeds in the UAE, but innovations within climate technology and UAE-led expertise have made power generation using wind possible.

Why is the UAE launching a wind turbine project?

The project is also creating a foundation of critical scientific wind data, which will form the basis of the UAE's next phase of development.

What is the UAE Energy Initiative?

This initiative aims to diversify the UAE's energy mix and advance its transition to a cleaner energy. It reinforces the UAE's commitment to decarbonisation efforts and achieving net zero emissions by 2050.

How many homes will a solar power project power in UAE?

The project is expected to power more than 23,000 UAE homes annually and

reduce 120,000 tonnes of carbon dioxide emissions. It spans the following four locations: Al Halah in the emirate of Fujairah.

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