Abu dhabi off-grid solar



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TSS, the most trusted name in off-grid solar energy for over 20 years. Our solar systems are designed for reliability and durability in the most demanding environments.

Across the world our off-grid solar systems are energizing mission critical applications for telecom towers, water treatment plants, oil & gas installations to name just a few.

infinitum, TSS" durable, modular and scalable hybrid solar power systems combine multiple sources of electricity generation with a battery storage system managed by TSS" in house developed battery management system.

TSS hybrid solar power systems deliver outstanding reliability, performance, durability and unrivalled energy efficiency while reducing the air pollution, noise and costs associated with diesel fuel generators.

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Abu Dhabi government officials last week inaugurated the 2 GW Dhafra Solar Photovoltaic Independent Power Project, located roughly 35 kilometers from United Arab Emirates" capital. The plant consists of four million bifacial solar panels and is claimed to be the world"s largest single-site solar power plant.

Touted as the world"s largest single-site solar power plant, the project is managed by UAE-based renewable energy company Masdar, national energy company Abu Dhabi National Energy Company (TAQA), French energy giant EDF and Chinese solar developer Jinko Power.

Representatives from the project's procurer - Emirates Water and Electricity Company (EWEC) - were present at the inauguration, which was timed to coincide with Abu Dhabi kicking off hosting duties for the upcoming 2023 United Nations Climate Change Conference, aka COP 28.

The project is also claimed to have "broken records" on cost, with the initial project tariff set at AED 4.97 fils/kWh (\$1.35/kWh) before being revised down to AED 0.0485/kWh (\$0.0132/kWh) at financial close. The project was tendered in 2019 to be operational by early 2022.

United Arab Emirates had 2.9 GW of installed solar capacity at the end of last year, according to estimates published by the International Renewable Energy Agency (IRENA). It is expected the Dhafra Solar



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Photovoltaic Independent Power Project will bring the country"s total well over 3 GW.

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