



# Saudi arabia microgrid energy storage

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Saudi Arabia Red Sea Project. As a cornerstone of SaudiVision2030, the Red ...

The world's first city fully powered by 100% renewableenergy is emerging along the ...

Huawei's FusionSolar Smart String Energy Storage Solution will power the Red Sea City's off-grid, clean energy needs.

Saudi Arabia's Red Sea Project is making headlines with the construction of the world's largest photovoltaic-energy storage microgrid. Featuring a 400MW solar PV system coupled with a 1.3GWh energy storage system, this ambitious project is set to revolutionize sustainable energy solutions in hospitality.

Global technology giant Huawei is at the helm of this groundbreaking venture. The Red Sea Project, spearheaded by Red Sea Global, aims to power a major hospitality destination along the coast of southwestern Tabuk Province.

Covering a vast area of 28,000 square kilometers, this project is poised to redefine the future of clean energy and sustainable tourism.

In an interaction with Gulf Business, Alex Xing, President of Huawei Digital Power for the Middle East and Central Asia, highlighted the significance of this project, stating, "The destination is poised to be the world's first fully clean energy-powered destination, and Huawei is honored to participate in this project and help Saudi Arabia build a greener and better future through technological innovation."

The Red Sea Project is set to transform the region into a beacon of sustainable tourism. With plans to complete by 2030, the project envisions the creation of Red Sea City, featuring 50 hotels with 8,000 rooms and more than 1,000 residential properties across 22 islands and six inland sites. The city is expected to cater to up to one million visitors per year, all benefiting from off-grid, clean energy.

Central to this vision is Huawei's FusionSolar Smart String Energy Storage Solution (ESS). This solution will enable the Red Sea Project to independently meet its power needs. The microgrid solution addresses the intermittent and fluctuating nature of solar and wind power. It ensures the safe and stable operation of renewable energy systems.

"Microgrids are not new to the power industry. However, the Red Sea Microgrid is unique because it uses only renewable sources of energy and it is completely disconnected from any external grid," said Xing.

"As the pioneer in digital technologies, Huawei is one of the few solution providers offering state-of-the-art



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power electronic technology, forming and stabilizing grids via virtual synchronizing machines. This in-depth industry knowledge and solid experience enabled Huawei to accept the challenge of delivering such an ambitious project."

Huawei's involvement in the Red Sea Project underscores its commitment to sustainability, technological expertise, and collaboration. "The Red Sea Project provides an unparalleled opportunity to demonstrate this commitment and showcase our industry-leading innovation and technology," said Xing.

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Web: <https://www.kary.com.pl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

