

Huawei s first solar energy storage project





Overview

Huawei's FusionSolar 9.0 is a new integrated solar-plus-storage platform featuring smart inverters, AI-driven management, and grid-forming capabilities to turn solar plants into active grid-support assets. Will Huawei fusion solar power Red Sea city's off-grid energy needs?

Huawei's FusionSolar Smart String Energy Storage Solution will power the Red Sea City's off-grid, clean energy needs. The Red Sea Project, a key part of Saudi Vision 2030, is now the world's largest microgrid with 1.3GWh storage capacity.

What is Huawei fusion solar smart string energy storage solution (ESS)?

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.

Will Huawei power Saudi Arabia's Red Sea project?

Huawei has developed the world's largest microgrid power station which delivers 1 billion kWh power supply per year. The new solution will play a significant role in Saudi Arabia's Red Sea project and provide several green electricity benefits.

Does Huawei offer fusion solar solutions for Saudi Arabia's Red Sea project?

Earlier we reported that Huawei is offering FusionSolar solutions for Saudi Arabia's Red Sea Project. The company collaborated with many partners to prepare this technology. It is finally ready with various capabilities that will boost power supply aspects.



Huawei s first solar energy storage project

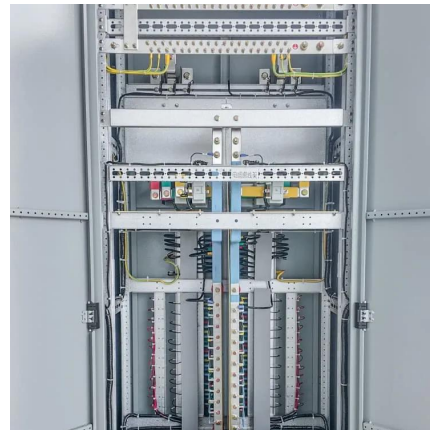


[Saudi Arabia Red Sea Project](#)

A Huawei technician sporting a company uniform during the construction of Saudi Arabia's Red Sea Project in the first half of 2023. Red Sea is the ...

1300 MWh! Huawei Wins Contract for the World's Largest Energy Storage

Oct 17, 2021 · This 1300 MWh off-grid energy storage project is the largest of its kind in the world and represents a milestone in the global energy storage industry. The Red Sea Project has ...



[Smart Renewable Energy Generator: Writing a ...](#)

Jun 13, 2024 · In Golmud, Qinghai and other areas of China, Huawei worked with customers to build the world's first batch of 100 MW-level smart string ...

[Saudi Arabia Red Sea Project](#)

A Huawei technician sporting a company uniform during the construction of Saudi Arabia's Red Sea Project in the first half of 2023. Red Sea is the world's largest microgrid energy storage ...



[Huawei unveils world's largest microgrid](#)

Sep 18, 2024 · Covering 100 km of grid infrastructure, it is the world's first independent microgrid project to be fully powered by solar and energy storage without connection to any power network.



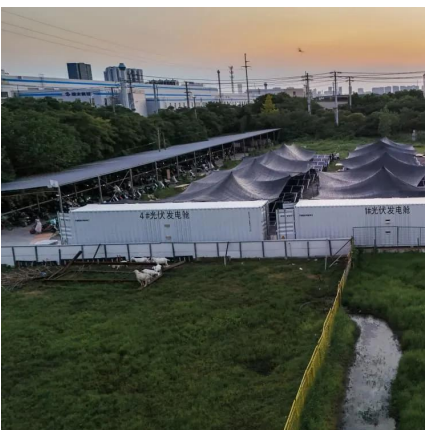
[Huawei unveils world's largest microgrid, ...](#)

Sep 18, 2024 · Huawei Digital Power has built a solar-storage microgrid project in Saudi Arabia's Red Sea New City. It said that the plant has ...



[Huawei unveils FusionSolar 9.0 platform with AI grid ...](#)

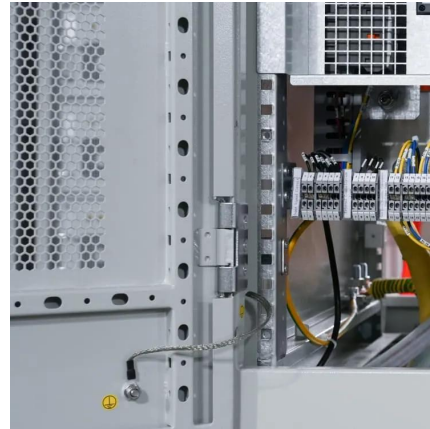
Dec 2, 2025 · Huawei's FusionSolar 9.0 is a new integrated solar-plus-storage platform featuring smart inverters, AI-driven management, and grid-forming capabilities to turn solar plants into ...





[Saudi: Huawei to power 'world's 1st fully ...](#)

Aug 19, 2024 · Saudi Arabia's Red Sea Project will feature the world's largest photovoltaic-energy storage microgrid with a 400MW solar PV system ...



[Huawei and SchneiTec Commission World's ...](#)

Jun 23, 2025 · Shanghai (ANTARA/PRNewswire)- Huawei Digital Power, in collaboration with SchneiTec, has successfully commissioned ...

[Huawei unveils world's largest microgrid](#)

Sep 18, 2024 · Covering 100 km of grid infrastructure, it is the world's first independent microgrid project to be fully powered by solar and energy ...



Pioneering energy storage system lights up 'roof of the world'

Dec 3, 2025 · Now, the project's photovoltaic output has increased from the previous maximum of 1.5MW to 12MW. "Over 10 days of monitoring, Huawei's grid-forming energy storage ...



City of Tomorrow: Huawei FusionSolar Contributes to the World's First

The Red Sea destination is set to become the world's first to be entirely powered by clean energy! Huawei has played a pivotal role in this sustainable endeavor by constructing the largest ...

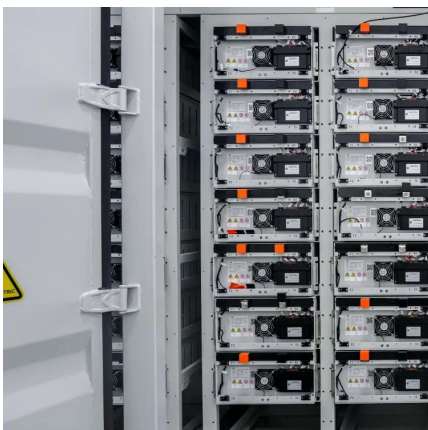


[Huawei s largest photovoltaic energy storage](#)

Aug 4, 2024 · Huawei - Saudi Arabia Red Sea FusionSolar Smart Micro-grid Huawei's world's largest micro-grid energy storage project is under construction in Saudi Arabia. This project is ...

[A Milestone in Grid-Forming ESS: First ...](#)

Jul 22, 2024 · The world's first batch of grid-forming energy storage plants has passed grid-connection tests in China, a crucial step in integrating ...



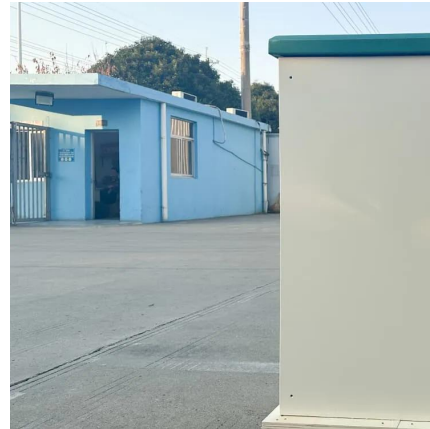
[Construction of the Red Sea Project in Saudi ...](#)

May 11, 2024 · This video, shot in early 2023, shows the construction of the Red Sea Project, the world's first city fully powered by 100% renewable ...



Huawei unveils world's largest microgrid, featuring 1.3 GWh ...

Sep 18, 2024 · Huawei Digital Power has built a solar-storage microgrid project in Saudi Arabia's Red Sea New City. It said that the plant has been operating smoothly for a year, delivering ...



Huawei microgrid for Red Sea project offers 1 billion kWh ...

Sep 9, 2024 · Red Sea Project Microgrid power station is a major implementation the the Red Sea New City project. It will be the world's first green city based on 100% energy storage and ...

[Huawei and SchneiTec Commission the ...](#)

Jun 10, 2025 · This newly completed 12MWh energy storage project includes a 2MWh testbed dedicated to validating Huawei's Smart String Grid ...



[Huawei and SchneiTec Commission World's First TÜV SÜD ...](#)

SHANGHAI, June 16, 2025 /PRNewswire/ -- Huawei Digital Power, in collaboration with SchneiTec, has successfully commissioned Cambodia's first-ever TÜV SÜD-certified grid ...



[Saudi: Huawei to power 'world's 1st fully clean-energy ...](#)

Aug 19, 2024 · Saudi Arabia's Red Sea Project will feature the world's largest photovoltaic-energy storage microgrid with a 400MW solar PV system and 1.3GWh storage capacity.



[The Cutting-edge technology behind the ...](#)

The world's first city fully powered by 100% renewable energy is emerging along the Red Sea coast in Saudi Arabia. As a cornerstone of ...

[Huawei and SchneiTec Commission World's First TÜV SÜD ...](#)

Jun 16, 2025 · Huawei Digital Power, in collaboration with SchneiTec, has successfully commissioned Cambodia's first-ever TÜV SÜD-certified grid-forming energy storage project, ...



[Huawei and SchneiTec Commission the ...](#)

Jun 11, 2025 · This newly completed 12MWh energy storage project includes a 2MWh testbed dedicated to validating Huawei's Smart String Grid ...



[Huawei and SchneiTec Commission the ...](#)

Jun 11, 2025 · Huawei Digital Power, in collaboration with SchneiTec, has successfully commissioned Cambodia's first-ever TÜV SÜD-certified grid ...

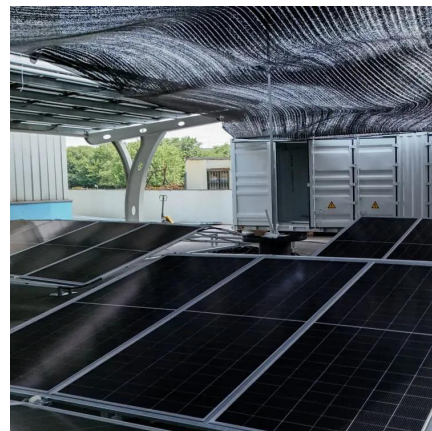


[Huawei microgrid for Red Sea project offers 1 ...](#)

Sep 9, 2024 · Red Sea Project Microgrid power station is a major implementation the the Red Sea New City project. It will be the world's ...

A Milestone in Grid-Forming ESS: First Projects Using Huawei's ...

Jul 22, 2024 · The world's first batch of grid-forming energy storage plants has passed grid-connection tests in China, a crucial step in integrating renewables into power systems. ...



Contact Us

For technical specifications, project proposals, or partnership inquiries, please visit:
<https://www.eiei.pl>



Scan QR Code for More Information



<https://www.eiei.pl>