



Riyadh Intelligent Communication BESS Power Station

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How does Bess work in Riyadh?

BESS stores energy during off-peak hours, releasing it during peak times to reduce strain on the grid. Impact: BESS enables Riyadh to integrate more renewable energy, supporting urban projects while maintaining grid stability. Urban Energy Demand: Riyadh's population is projected to reach 8 million by 2030.

Which giga-projects rely on Bess?

Qiddiya, an entertainment and tourism hub, and the Red Sea Project, a luxury eco-tourism destination, are other flagship giga-projects relying on BESS. Qiddiya: This project requires high energy for theme parks, stadiums, and residential areas. BESS ensures stable power for high-consumption facilities, integrating with solar installations.

Why is Riyadh undergoing rapid urbanization?

Riyadh, the Kingdom's capital, is undergoing rapid urbanization, with projects like the Riyadh Metro and King Abdullah Financial District driving energy demand. In January 2025, Saudi Arabia connected its largest BESS, a 2 GWh system, to the grid, significantly enhancing Riyadh's energy infrastructure.

What is a Bess project?

Red Sea Project: Located off the grid, this project uses BESS to store solar and wind energy, powering resorts and infrastructure sustainably. Impact: Both projects benefit from BESS's ability to provide clean, reliable energy, enhancing their appeal as global destinations.

From NEOM's 100% renewable grid to Riyadh's urban expansion, BESS is enabling the Kingdom's giga-projects to run smarter, cleaner, and more reliably.

Saudi Arabia is set to launch its first independent battery energy storage system (BESS) projects with a total capacity of 2GW. The ...

Discover how BESS powers Saudi Arabia's giga-projects, from NEOM to Riyadh, ensuring sustainable energy for Vision 2030.

Discover how BYD Energy Storage's groundbreaking 12.5GWh BESS project in Saudi Arabia is revolutionizing grid-scale energy storage, advancing Vision 2030 goals, and ...

Smart BaseStation(TM) is an intelligent communication mast that can provide remote power for a range of DC and AC off-grid applications eg rural broadband. [pdf]

These projects are set to be implemented in five locations across Saudi Arabia, including Riyadh, Qaisumah, Dawadmi, Al Jouf, and ...

Under the supervision of the Ministry of Energy, the Saudi Electricity Company (SEC) has announced the launch of the second phase of its battery energy storage system ...

The newly launched energy storage program will help the Kingdom get 50% renewable energy in the energy mix by 2030, enhancing the reliability and resilience of the electric power system.

Saudi Electricity Company (SEC) awards the contracts for Battery Energy Storage Systems (BESS) having Combined Capacity of 2,500 MW/10,000 MWh, across Saudi Arabia.

Saudi Electricity Company (SEC) has awarded major contracts to Chinese group BYD Auto Company and Saudi utility major Alfanar ...

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Saudi Electricity Company (SEC) has awarded major contracts to Chinese group BYD Auto Company and Saudi utility major Alfanar Projects for developing Battery Energy ...



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