

## Global PV Storage Insights

# Expected ROI of standalone energy storage project in Saudi Arabia 2026



## Overview

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How many GWh of energy storage will Saudi Arabia have by 2025?

Projections indicate that Saudi Arabia aims to operate 8 GWh of energy storage projects by 2025 and 22 GWh by 2026, positioning the nation as the third-largest global market for energy storage, following China and the United States.

Will Saudi be the third biggest Bess market in 2026?

And if we add recent tenders, this will lead to a whopping 33.5 GWh of BESS capacity by 2026. This would make Saudi the third biggest global BESS market after the USA and China. While KSA is certainly leading the pack, increasing deployments can be witnessed all across MENA and the Gulf or GCC region in particular.

How many GW of renewable power will the UAE and Saudi Arabia have?

The UAE and Saudi Arabia have already deployed 9 GW and aim to reach 144 GW of renewable power capacity by 2030. Large-scale power plants recently connected to the grid enjoy incredibly low LCOEs below 2 USD cents.

What is SEC doing with BYD energy storage?

In a strategic move to further bolster its energy storage capabilities, SEC has entered into agreements with BYD Energy Storage for additional projects totaling 12.5 GWh. Combined with the existing 2.6 GWh project, this collaboration amounts to a substantial 15.1 GWh of energy storage capacity.

## Expected ROI of standalone energy storage project in Saudi Arabia



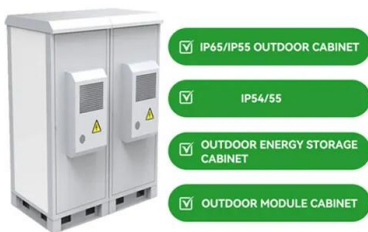
### Saudi Arabia: energy investment projects by project

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Between 2022 and 2026, among other energy investment projects, REPDO-renewable energy program (round 2) had the highest value in Saudi Arabia, amounting to nearly

### Country Analysis Brief: Saudi Arabia

Saudi Arabia seeks to increase its electricity generation capacity from natural gas and renewable energy sources as part of the country's Vision 2030.3 The Saudi Power ...



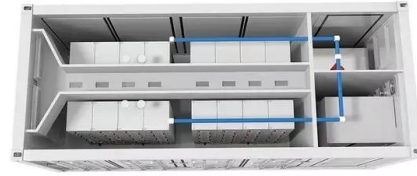
### BYD & SEC: World's Largest Grid-Scale Energy Storage Project

BYD Energy Storage and Saudi Electricity Company (SEC) have signed a contract to deliver the world's largest grid-scale energy storage project totalling 12.5GWh. This ...

### Top 26 Upcoming Projects in Saudi Arabia

Explore the future of Saudi Arabia with a glimpse into upcoming projects that align with the visionary goals of Vision 2030. Discover mega-

projects driving economic ...



### Future Plans and Investment

Our United EO/EG-III project is expected to start operations in 2022 and will produce 700,000 metric tons of glycols in Jubail, Saudi Arabia. Our latest joint venture with ExxonMobil in ...



## Saudi Arabia Rises to Global Top 10 in Energy Storage, Eyes 48 ...

Saudi Arabia has secured a spot among the top 10 global markets for energy storage, reinforcing its leadership in renewable energy expansion. The milestone comes ...



## Saudi Arabia Stationary Energy Storage Market 2019-2026

Expansion in the renewable energy sector along with several upcoming projects in Saudi Arabia is expected to increase the growth of the stationary energy storage market



## Saudi Arabia Plans to Deploy 48GWh of Battery Storage by 2030

The four upcoming energy storage projects, all identical in scale, are strategically located within Saudi Arabia. As part of the Saudi Vision 2030 policy, the country ...



## The NEOM hydrogen project in Saudi Arabia is approaching 80

The NEOM green hydrogen project in Saudi Arabia is approaching 80 percent completion, with green ammonia production expected to commence at the end of 2026. The ...

## 7.8GWh! World's Largest Energy Storage Program ...

The project comprises three sites with a total installed capacity of 7.8GWh, located in the Najran, Madaya and Khamis Mushait regions of Saudi Arabia. Delivery is scheduled to commence in 2024. Full-capacity grid ...



## Saudi Energy Storage Market Deep Dive: 2025 and Beyond

According to the latest industry data, the Kingdom has successfully ranked among the top 10 global energy storage markets and leads among emerging markets.

## The Future of Battery Market in the Middle East & Africa

This report explores the key dynamics shaping the battery market across the region: from the rise of lithium-ion and solid-state technologies to growing applications in energy storage, electric ...



## Saudi Arabia plans 10GW of battery capacity

The energy and utilities construction sector is expected to grow by 3.7% in 2025, with an average annual rate of 7.8% between 2026 and 2029, driven by investments in ...

## LEVERAGING ENERGY STORAGE SYSTEMS IN MENA

Other countries such as the United Arab Emirates, Egypt, Saudi Arabia, and Oman have relatively low renewable energy generation, but the share is expected to witness a significant hike with ...



## Saudi Arabia Connects Its Largest BESS to the Grid

The Bisha project supports Saudi Arabia's plan to expand renewable energy under Vision 2030, which aims to generate 50% of the country's energy from renewable sources. In addition to the Bisha project, ...

## NEOM Green Hydrogen Project Nears Completion in Saudi Arabia

The project is set to finish its 4 GW renewable energy sites by mid-2026, with the first green ammonia product expected in 2027, as reported by Air Products. NEOM Green ...



## Saudi Arabia prequalifies battery energy storage bidders

Principal buyer Saudi Power Procurement Company (SPPC) has prequalified firms that can participate in the tender for the first phase of its independent battery energy storage system (bess) projects in Saudi Arabia. Interested companies, ...

## Saudi Arabia invites Bids for 2,500MW Battery Energy ...

Saudi Electricity Company (SEC) issued tender for Battery Energy Storage Systems (BESS) having Combined Capacity of 2,500 MW across Saudi Arabia. Battery Energy Storage System (BESS) plant will provide Load ...



## Technoeconomic analysis of standalone hybrid renewable energy ...

This research work presented a techno-economic analysis of a standalone hybrid energy system to compensate the load demand of telecom towers in Saudi Arabia. The ...

## Saudi Arabia to increase renewable energy capacity

The photo is sourced from ess-news The project is part of Saudi Arabia's strategy to increase the share of renewables in electricity consumption to 50% by 2030. According to Ember, in 2023, renewable ...

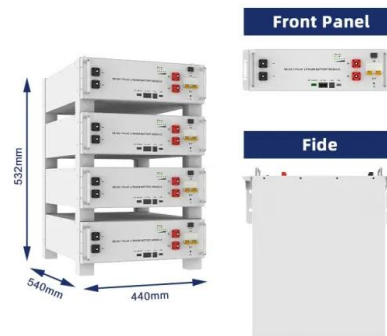


## BYD to build the 'world's largest' battery storage projects

Chinese energy giant BYD has just inked a deal to build the largest battery storage projects on the planet for Saudi Arabia. The company will put together facilities at five sites totaling a

## Saudi Arabia Ranks Among Top 10 Global Markets For Energy Storage

According to Wood Mackenzie consultancy, Saudi Arabia leads emerging markets experiencing rapid growth in energy storage projects. The new storage capacities are ...



## Saudi Arabia Ranks Among World's Top 10 Energy Storage

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Saudi Arabia has emerged as one of the world's top 10 markets for battery energy storage, coinciding with the launch of the 2,000-megawatt-hour Bisha project, one of ...

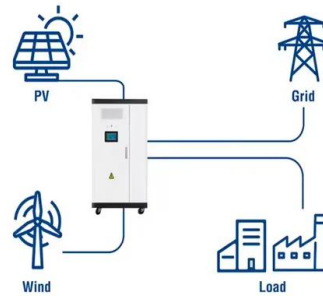
## Saudi Arabia Ranks Among World's Top 10 Energy Storage ...

...

Saudi Arabia aims to bring 8 gigawatt-hours of energy storage projects online by 2025 and 22 gigawatt-hours by 2026. These targets would position the Kingdom as the world's ...



### Utility-Scale ESS solutions



## Aramco says 110 expected investment opportunities for Saudi ...

Saudi Arabian Oil Co. (Saudi Aramco) announced its project portfolio expected from 2024 to 2026, which includes 110 projects. The oil giant's portfolio includes 67 oil, gas and ...

## Saudi Arabia launches tender for 8 GWh of battery ...

The projects mark the first phase of Saudi Arabia's battery storage program, designed to support its goal of 50% renewable energy by 2030. Each 500 MW facility will operate for four hours, providing 2,000 MWh of total ...



## Saudi Aramco plans 110 projects in 2024-2026

The projects include 67 in oil, gas and petrochemicals, 20 in pipelines and 23 infrastructure projects, the paper said in a report on Thursday. Saudi Aramco, which controls over 260 billion barrels in proven oil deposits, ...

## The MENA region - the next hot market for energy ...

The MENA region is starting to witness a drastic increase in large-scale battery energy storage systems ("BESS") projects, accompanying a soaring penetration of renewable energy. This has happened at a pace, which ...

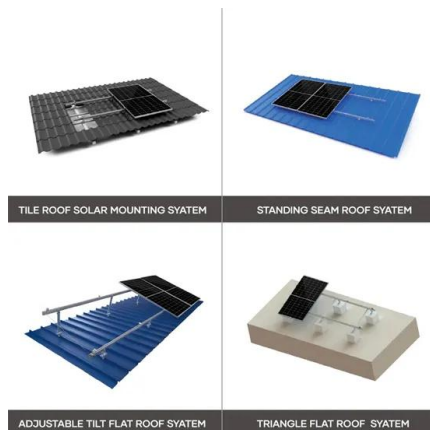


## MENA Round-Up: Saudi Arabia Among Top 10 ...

According to Wood Mackenzie, Saudi Arabia is a rapidly growing energy storage market with capacities expected to reach 8 GWh by 2025 and 22 GWh by 2026. The Dakhla, Morocco-based green hydrogen and ...

## Saudi Aramco plans 110 projects in 2024-2026

The projects include 67 in oil, gas and petrochemicals, 20 in pipelines and 23 infrastructure projects, the paper said in a report on Thursday. Saudi Aramco, which controls ...



## Saudi Arabia to increase renewable energy capacity

The photo is sourced from ess-news The project is part of Saudi Arabia's strategy to increase the share of renewables in electricity consumption to 50% by 2030. ...

## Bisha Project sparks Saudi Arabia's rise in global energy markets

Saudi Arabia has secured a top position among the world's leading markets for energy storage, with the launch of the massive Bisha Project.



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