

# Construction of a new energy storage pilot project in Manama

Why do we need energy storage solutions in the MENA region?

Dr. Ahmed Ali Attiga, CEO of APICORP, said, "The need for energy storage solutions in the MENA region is primarily driven by ambitious national renewable energy targets and mounting peak electricity demands as a result of accelerating economic development and diversification of the energy mix.

What is the future of energy storage in MENA?

MENA region has 30 planned energy storage projects in 2021 - 2025, with batteries expected to make up 45% of MENA's total energy storage landscape by 2025. APICORP recommends ten key policy actions to support energy storage solutions integration, including the creation of a MENA Energy Storage Alliance to facilitate public-private partnerships.

How can MENA countries take the lead in energy storage?

With abundant land and low-cost solar and wind generation capacities, MENA countries have real competitive advantages that enable it to take the lead in energy storage and successfully navigate the energy transition."

How many ESS projects are there in MENA?

There are 30 ESS projects planned in MENA between 2021 and 2025 with a total capacity/energy of 653 MW/3,382 MWh - out of which 24 projects are for VRE integration and grid firming. The share of batteries out of the total energy storage landscape in MENA is expected to jump from the current 7% to 45% by 2025.

What technologies are used for energy storage in MENA?

Some of the current technologies being used for energy storage in MENA include pumped hydro storage (PHS) and electrochemical energy storage - mainly sodium-sulfur and lithium-ion batteries.

Is battery energy storage possible in Jordan?

In response to this, Fichtner in collaboration with the Jordanian Ministry of Energy and the transmission system operator, NEPCO, has analyzed the potential for battery energy storage and, in the role of Transaction Advisor, is providing support for implementing a pilot project.

Block 4 is planned to be developed in an area of approximately 20,000m<sup>2</sup>; (215,278ft<sup>2</sup>;) on the southern end of PS5, enabling easy access to shared utilities. The new power block will be similar to PS5's three existing blocks. A power generation building spanning 6,000m<sup>2</sup>; (64,583ft<sup>2</sup>;) will be built on the site.

This partnership follows the successful testing of LiNa Energy's latest generation energy storage system in collaboration with ACWA Power. Thermatron thermal testing, designed to mirror conditions encountered at

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solar sites, demonstrated the strong performance arising from LiNa's sodium battery cells operating at high internal temperatures ...

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In this interview, we speak with Florian Mayr, partner and head of the energy storage practice at Apricum - The Cleantech Advisory, to get an orientation of the MENA ...

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The project is furnished with a 5.308 MWh energy storage system comprising 2 2.654 MWh battery energy storage containers and 1 35 kV/2.5 MVA energy storage conversion boost system. Each battery energy storage

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MENA's first-ever project-financed energy storage system was announced in Jordan; the Ministry of Energy

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& Mineral Resources (MEMR) pre-qualified 23 bidders for a 30MW/60MWh standalone energy storage project. Slated for completion in May 2020, the plant - located at a substation in the city of Ma'an - would be used for ramp-rate control ...

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The planned schemes will form the backbone of an energy storage infrastructure at the SR1.5tn (\$500bn) development. The other three planned PHS projects will be located in Al-Qimmah, Nima and Beach Mountain, and will have capacities of about 3,000MW, 1,000MW and 3,000MW, respectively.

Web: <https://degotec.fr>