

# NORTH ASIA AMMAN ENERGY STORAGE

## Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget-Friendly Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion



Why are energy storage systems being integrated in MENA? The pace of integration of energy storage systems in MENA is driven by three main factors: 1) the technical need associated with the accelerated deployment of renewables, 2) the technological advancements driving ESS cost competitiveness, and 3) the policy support and power markets evolution that incentivizes investments.

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What is energy storage Alliance in MENA? Create an Energy Storage Alliance in MENA supported by governments and the private sector to foster the development of ESS in the region, by enhancing public-private partnerships. A key objective of this alliance is to foster the development of ESS in the region through experience sharing and standardization.

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Will energy storage expand in MENA? The current utility business model limits the prospects of energy storage expansion opportunities, unless driven by direct governmental support. Auctions in MENA have been a major driver for renewable energy deployment, most notably for solar and wind, but only a few have included energy storage.

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Which energy storage solutions will be the leading energy storage solution in MENA? Electrochemical storage (batteries) will be the leading energy storage solution in MENA in the short to medium terms, led by sodium-sulfur (NaS) and lithium-ion (Li-Ion) batteries.

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Which country has the most battery storage capacity in MENA? Currently, NaS battery technology dominates the battery storage capacity in operation in MENA, particularly in the UAE, with a total of 108 MW/648 MWh projects developed by the Abu Dhabi Water and Electricity Authority (ADWEA).

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Which energy storage technology has the most installed capacity in MENA? Pumped hydro storage (PHS) has the largest share of installed capacity in MENA at 55%, as compared to a global share of 90%. Pumped hydro storage is one of the oldest energy storage technologies, which explains its dominance in the global ESS market.

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Around 34,350 polycrystalline 320Wp PV panels will be added, along with single-axis tracking and 12MWh of lithium-ion battery based energy storage. More recently Jordan, one of the Middle Eastern countries not ???



Oil Petroleum Products Storage & Logistics Company (PSC) (OPPL), represented by Iraqi businessman and investor, Dr. Ahmed Al-Jibouri, has recently signed the most strategic and exclusive agreement in Jordan's history with Aqaba ???



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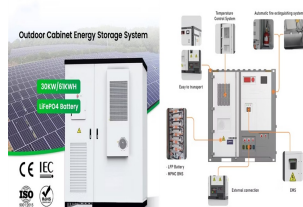


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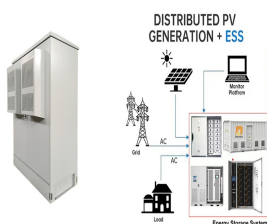


CIF's interventions are helping the Middle East and North Africa to achieve energy security, mitigate climate change, reduce greenhouse gas emissions, Global Energy Storage Program (GESp) Climate-Smart Cities. ???

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PV manufacturer and EPC Philadelphia Solar says it has achieved commercial operation of an expansion phase to one of the first solar projects built in the MENA region where energy storage has been added.



CIF's investment in Jordan is through its Clean Technology Fund (CTF). Motivated by objectives of energy security, climate change mitigation, and regional integration in the Mediterranean, this investment is done through the ???



The client for the project is National Electric Power Company (NEPCO). Amman Asia Electric Power Company (AAEPC), a consortium of Korea Electric Power Corporation (KEPCO, 60%), Mitsubishi Corporation ???