

GROWTH OPPORTUNITIES IN THE BATTERY ENERGY STORAGE SYSTEMS (BESS) INDUSTRY

Advanced Digital Technologies are Driving Transformational

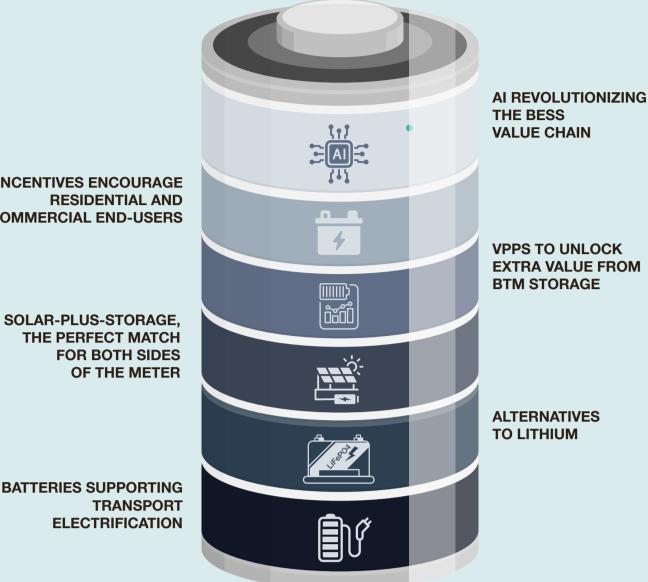
Growth for Front- and Behind-the-meter Applications AN EXCLUSIVE REPORT FOR THE WORLD FUTURE ENERGY SUMMIT BY FROST & SULLIVAN

KEY ADVANCEMENTS SHAPING THE BESS INDUSTRY

INCENTIVES ENCOURAGE RESIDENTIAL AND COMMERCIAL END-USERS

THE PERFECT MATCH FOR BOTH SIDES OF THE METER

TRANSPORT ELECTRIFICATION



GROWTH DRIVERS

2024 - 2025

Grid Value in Renewable Energy Surge

Storage Solutions Key to Unlocking

Surging low-carbon goals and cheaper wind and solar are fast-tracking renewables - making energy storage vital to stabilize supply and unlock grid value.

Rising Power Costs Push Shift to Solar + Storage Soaring power costs and affordable BTM solar are driving businesses

and homes to adopt solar-plus-storage for smarter, cheaper energy.

Supportive policies, incentives, and market reforms are strengthening

Policy Push Boosts Battery Adoption

the case for grid-scale and BTM battery projects.

The EV surge and rising battery production are driving better BESS performance and lower costs.

EV Boom Powers Better, Cheaper Energy Storage

Frequent weather events and grid disruptions are fueling energy security concerns, making BESS a reliable backup for end users.

Resilient Energy Storage

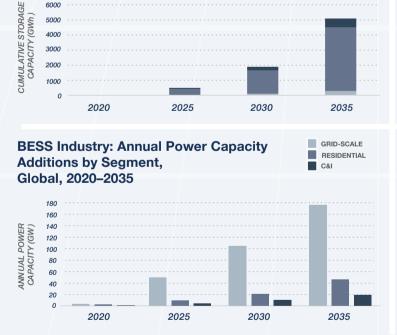
BESS Industry: Cumulative Storage

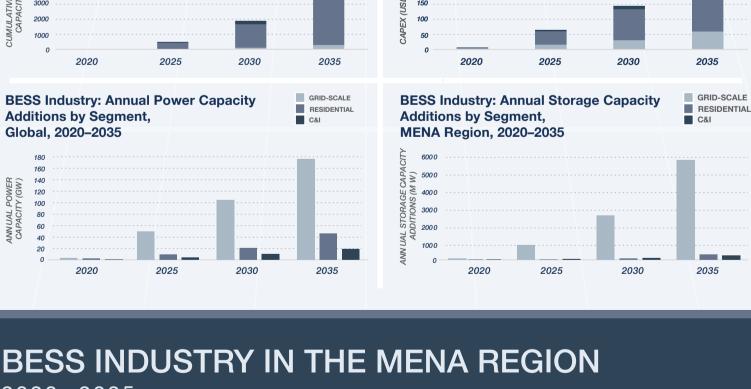
Capacity by Segment, Global, 2020–2035

Extreme Weather Drives Demand for

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GRID-SCALE





BESS Industry: Capex by Segment,

Global, 2020-2035

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GRID-SCALE

Short term target (2026) is to achieve ≥ 300MW / 300MWh BESS capacity as per EWEC's mandate. **KEY UPCOMING PROJECTS:**

Abdullah Alireza Company (Haaco), and Jinko Power (China) /

EWEC 400MW / 400MWh standalone BESS for UAE grid was awarded to a consortium of companies: EDF Renewables (France), Engie (France), Saudi Electricity Company (SEC) / Hajj

2020-2035

Masdar Solar and EWEC are developing a \$6 billion, 5GW solar facility backed by 19GWh BESS in Abu Dhabi expected to be operational by 2027

Alghanim International (Kuwait)

SAUDI ARABIA

KINGDOM OF

Saudi Arabia plans to have 8GWh of energy storage

projects in operation by 2025, and aims to increase it to 22GWh by 2026. **KEY UPCOMING PROJECTS:**

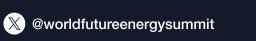
to be built by BYD & SEC across 5 different sites in the Grid-scale BESS project of 7.8 GWh capacity to be built

Largest grid-scale BESS project of 12.5 GWh capacity

- by Sungrow and Algihaz Holding across 3 locations by Stand-alone BESS project of 2GW/8GWh capacity to be
- developed by Saudi Power Procurement Company (SPPC).









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