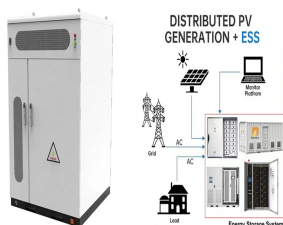
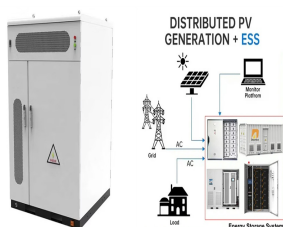


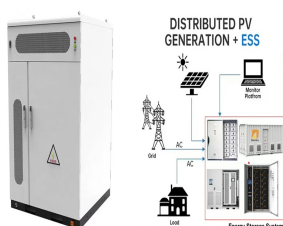
LEBANON'S NEW ENERGY STORAGE ENERGY PROSPECTS



How is Lebanon preparing for future needs? To prepare for future needs, Lebanon has set out to diversify its energy mix. This started with national action plans to scale up renewables and improve energy efficiency in 2016-2020, with an initial target for solar, wind, bioenergy and hydropower to cover some 12% of primary energy consumption.



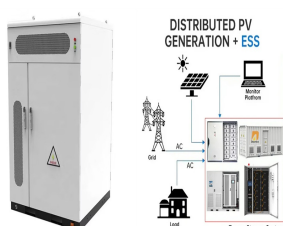
What are the benefits of renewables in Lebanon? The additional benefits of renewables are summarised in Boxes 2 and 3. The technological advancements in the areas of P2P trading and blockchain promote the implementation of community-scale renewable energy systems which, in turn, can boost the number of small-scale decentralised solar PV systems in Lebanon.



What are the energy data based on in Lebanon? The energy data employed by this study was largely based on two reports published by the Lebanese Centre for Energy Conservation (LCEC), namely the NREAP 2016-2020 (LCEC, 2016) and The First Energy Indicators Report of the Republic of Lebanon (LCEC, 2018). 1. Primary energy supply Lebanon relies on imports to satisfy its energy demand.

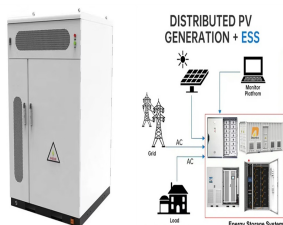


How many NEEAP initiatives are there in Lebanon? The first NEEAP for Lebanon introduced fourteen initiatives in 2010 related to renewable energy and energy efficiency, combined. The most successful was initiative 11, which introduced the National Energy Efficiency and Renewable Energy Action (NEEREA) dedicated to distributed solar applications.



How to improve electricity in Lebanon? Electricity in Lebanon is highly subsidised. Therefore, increasing tariffs and reducing electricity subsidies may encourage public and private investments in renewable energy projects and allow for the proliferation of renewables through small- and medium-scale deployment. 6. Reinforce the grid and conduct grid impact assessments

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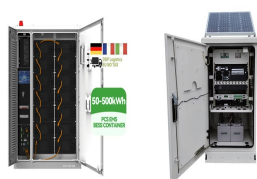
Why is there a shortage of electricity in Lebanon? In addition, in recent years Lebanon has experienced significant intermittency of electricity imports owing to regional instability. As well as threatening the country's energy security, this has aggravated the electricity supply shortage.



The stationary energy storage industry has witnessed exponential growth. Data from market analyses reveal a year-on-year surge in energy storage deployment, firmly setting battery storage as a cornerstone for a reliable



Sungrow's PV inverters and integrated energy storage solutions will enable efficient and reliable energy supply, minimizing reliance on expensive fossil fuels. The projects are set to be commissioned in Q4 2023, paving the way



As part of the new airport's build, Daxing has an integrated project within it combining solar power generation with energy storage. This ensures a stable and sustainable energy supply for the airport, which opened in 2019.



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Pumped storage is still the main body of energy storage, but the proportion of about 90% from 2020 to 59.4% by the end of 2023; the cumulative installed capacity of new type of energy storage, which refers to other types of ???



In intelligent grid, energy storage becomes an important supporting technology for large-scale centralized and distributed new energy generation access [5][6] [7]. Research on energy storage white