

Energy storage market lebanon

Waleed AlHallaj, the head of business development for the Middle East and North Africa (MENA) at JinkoSolar, recently spoke to pv magazine about the prospects for the regional energy storage market. He said that storage systems have already penetrated markets with weak grids, such as Yemen and Lebanon.

We have seen a great appetite for these systems especially in countries with difficulties in the grid such as Lebanon, Yemen and many parts of North Africa. We believe the [energy storage systems] will start replacing diesel generators as a first step of market penetration in this region, especially with the current oil prices that exceed \$1/liter sometimes. In some countries, investments in solar-plus-storage can have an internal rate of return of over 25%, making it a tremendous move towards more reliable, greener, and cheaper source of energy.

We have proudly supplied for some very interesting projects varying from 10 kWh all the way up to 10 MWh in between the Middle East and Africa. And we feel having a proof of concept on the ground will stimulate the market into increasing the adoption rate of such systems, especially with an obvious global energy crisis where such systems can not only provide a cheaper source of power, but also assure independence and continuity for the facility.

In the MENA region, we have seen that both residential and C&I segments are equally active. We also have noticed that some grid operators (transmission or distribution) are also considering such utility energy storage applications to stabilize the grid, especially if the solar penetration percentage is high, such as Jordan for example. We believe storage is going to be important for every single market in the region no matter what the purpose of adoption is.

In many countries, such systems are the only source of electricity for the homeowners. Without a solar module, battery, and an inverter, they won't be able to accomplish their daily tasks. The next challenge in this segment is to show these homeowners that this investment can be a long term one, as batteries can live for over 15 years now with new technologies such as LFP, and it is time to ditch the temporary short term solutions that were popular in the previous five to 10 years to more efficient, reliable and sustainable ones.

I believe the energy storage implementation will reshape the solar market in the MENA. I believe whether the grid is suffering to perform, or it is challenged by high solar and wind adoption percentages and what is in-between, energy storage will be the answer to all the problems. Today Energy Storage have opened new horizons to expand the use and implementation of the cheap and green renewable energy in a very challenging time.

Waleed AlHallaj, the head of business development for MENA at JinkoSolar, will speak at pv magazine's 2020 The case for residential, commercial Battery Energy Storage Systems in the

MENA region; webinar, which Emiliano Bellini will moderate on Oct. 10.

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Lebanon - Sungrow, the global leading inverter and energy storage system supplier for renewables, is delivering 13 microgrid projects in Lebanon with the company's flagship C& I energy storage system, the ST129CP-50HV.

The electricity crisis in Lebanon continues to escalate. As Lebanon depends on diesel generators to meet the national electricity demand, this country is contracting the power supply due to the rising costs of fossil fuels.

The energy issue cripples Lebanon's economic development and paralyzes its citizens' normal lives. The Lebanese are experiencing regular and more frequent power outages that can last for as much as 22 hours. Such an urgent situation stimulates the need for renewable energy installations.

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