

Djibouti off-grid energy storage

JinkoSolar announced it has delivered a 1.1MWh BESS for Hybrid Off-grid PV/DG System in the Republic of Djibouti, Horn of Africa, Ethiopia to the southwest, for the electrification of rural communities.

This PV/DG/BATT off-grid system is composed of 1200 kW JinkoSolar's Tiger Neo PV modules, three diesel generators, 1.1 MWh JinkoSolar's battery storage, and inverters, PCS, converter systems which are all provided by JinkoSolar.

After completion, diesel power generation will be shortened from 24 hours a day to 8 hours a day. JinkoSolar's 1.1MWh highly safe, efficient, and robust energy storage systems (BESS) are added to compensate for the natural intermittency of renewable sources, making the electrical system more continuous and reliable. The project can generate 2 million kilowatt hours of electricity a year, equivalent to the annual demand of 2,500 households.

In recent decades, due to the difficulty and high cost of transporting fuel like diesel to distant and isolated areas, increased efficiency, and the downward trend in prices of photovoltaic (PV) panels, the replacement of simple diesel-based systems by PV/ESS or hybrid solution has raised. Energy storage systems (ESS) are added to compensate for the natural intermittency of renewable sources, making the electrical system more continuous and reliable.

1. Demand Management: Peak shaving to maintain demands in the limit as per indications and to have energy storage at peak times. 2. Peak and Valley Arbitrage: Charge in the valley time and discharge in the peak time to gain the benefits like the cost of electricity is more in the day than in the night.

3. Maximizing Self-consumption: Storing energy in the battery in case of excessive power generation and using it when in need. 4. Backup Power: The buffer created through energy stored can be useful during power outages post-natural disasters like earthquakes or tsunamis.

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