

## Yaounde benefits of energy storage

This thesis addresses the global question of grid-connected utility-scale energy storage for the integration of energy generated from variable sources, in the context energy transition.

Renewable energy integration and decarbonization of world energy systems are made possible by the use of energy storage technologies. As a result, it provides significant benefits with regard to ancillary power services, quality, stability, and supply reliability.

Energy storage can help to control new challenges emerging from integrating intermittent renewable energy from wind and solar PV and diminishing imbalance of power supply, promoting the distributed generation, and relieving the grid congestion.

Benefits. After completion of the project's phase I, Huawei Microgrid Solar Solution now helps 166 villages (and over 120,000 people) benefit from electricity in Cameroon; the average annual power generation is more than 17 million kWh, the rural electricity coverage rate increases from 18 percent to 20 percent.

Cameroon Water Resources and Energy Ministry is responsible for formulating the plan and strategy of energy and water resource supplies, developing, and managing specific projects for this African nation's energy and water resources.

Cameroon urgently wants to realize "rural electrification" in order to: Improve the electricity access rate in rural areas, improve the living standards of its citizens, promote the development and utilization of local resources, and further drive the development of education, medical care, communications, manufacturing, and other industries.

With advanced Maximum Power Point Tracker (MPPT) technology, high efficiency inverter, advanced charging and discharging management technologies, the overall system power generation capacity is 3 percent more than other solutions which also helps customers achieve more benefits. The energy storage system utilizes battery technology that withstands high temperatures and still provides good performance in these environments. Huawei implements a natural cooling design according to Cameroon's climate situation, which greatly reduces its system power consumption.

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