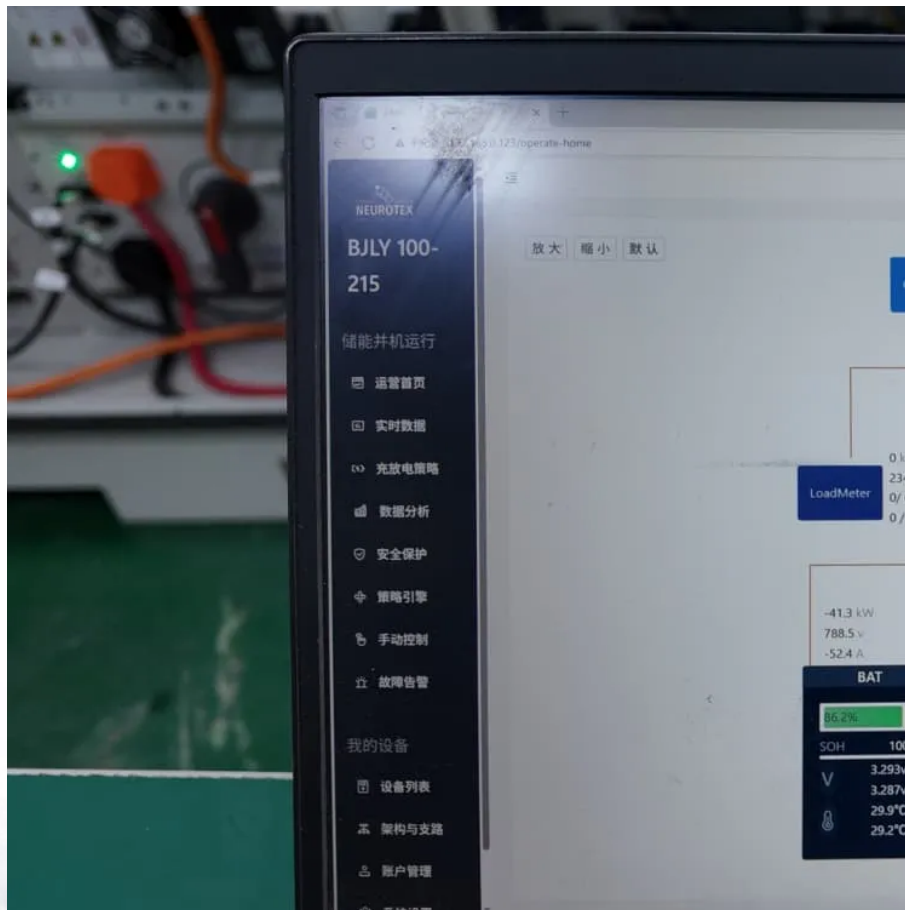


Uganda wind power and solar energy storage development prospects





Overview

Why should Uganda invest in wind energy?

Apart from being an environmentally friendly and renewable energy resource, development of wind energy could boost economic growth and create jobs. For Uganda, rising energy demand, need to reduce greenhouse gas emissions, and increasing electricity access to rural areas, emerge as rational opportunities to invest in wind energy.

Does Uganda have a peak electricity demand?

Uganda's electricity system peak demand (Source: Electricity Regulatory Authority (ERA), Uganda (2019)). Countries are not only increasingly integrating wind energy in their energy mix as a source of electricity supply, but more importantly, as an option to bridge the gap of the growing energy demand.

Does Uganda have a wind resource?

Pallabazzer and Sebbit (1998), the only empirical study on wind resources in Uganda, provides an output on wind energy potential and a territorial wind map for Uganda. However, the study was exclusively based on wind data from only 11 sites.

Can Uganda meet 100% of its energy needs by 2050?

Despite this, Uganda is endowed with abundant renewable energy potential from sources such as water, wind, biomass and the sun. A study commissioned by WWF Uganda Country office has shown that it is possible to meet 100% of Uganda's energy needs from Renewable energy sources by 2050.



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Feb 24, 2025 · Abstract Wind energy is emerging as an attractive renewable energy option in Uganda, with abundant wind resources being available in the eastern and northeast regions of ...

RENEWABLE ENERGY SCENARIO REPORT

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