

A-Core Container

Advantages of distributed energy storage in Uganda



Overview

Why is universal energy access important for Uganda?

The Report recognizes that for Uganda, achieving universal energy access is as important as achieving a 100% renewable energy production target. It also recognizes that to be sustainable, the renewable energy solutions presented must address poverty and other social needs as outlined in Agenda 2030 / Sustainable Development Goals.

Is solar energy a good investment in Uganda?

Solar Energy Uganda is endowed with favourable solar irradiation of 1,825 kWh/m² to 2,500 kWh/m² per year (See figure 4 below). In the recent past solar power has received increasing attention by investors as well as a promising potential for exploitation of geothermal energy.

Does Uganda have a high energy access rate?

Hence, there is a need to exploit all the available energy sources to increase energy access for all Ugandans, since the country has one of the lowest electrification rates in Africa, with a current access rate of 28% (Draft Energy policy, 2019).

Does Uganda have a potential for small-scale hydropower?

There is also a need to exploit the high potential of energy that the country has, for instance, analysis from the World Resources Institute's Energy Access Explorer reveals that 60% of the area where Uganda's schools and hospitals are located has good potential for small-scale hydropower.

How will Uganda's power sector investment plan affect electricity demand?

Since then, the Uganda Power Sector Investment Plan 2015 has started implementation, which is expected to lead to larger increases of household electricity demand until 2030 in parallel with an implementation plan to achieve universal access to electricity for households until 2030.

How is electricity used in Uganda?

Electricity use is rapidly increasing in Uganda, mainly with increasing wealth. With efficient lamps (as LED), electric light is possible with affordable levels of energy consumption for many Ugandans. In addition to increased wealth, electricity is also replacing kerosene for light.

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