

A-Core Container

Small solar power generation system in Somaliland



Overview

The microgrid consists of two solar plants with a total capacity of 8MW, a containerised lithium-ion power storage system with a capacity of 2MWh and three modern diesel generators. Can a microgrid increase solar power in Somaliland?

This project in Somaliland is one of the first in the world to use the company's patented Maximum Inverter Power Tracking (MIPT) technology to increase the share of solar power in microgrids. Hosted by BEC utility, Somaliland's power grid supplying the city of Berbera is being monitored and controlled using microgrid technology.

What is a microgrid in Somaliland?

Somaliland's power grid supplying the city of Berbera, home to the largest port in the horn of Africa, is being monitored and controlled using microgrid technology. The microgrid consists of two solar plants with a total capacity of 8MW, a containerised lithium-ion power storage system with a capacity of 2MWh and three modern diesel generators.

What is the main source of energy in Somaliland?

Elmi says that charcoal is the main source of energy, as electricity is rare and expensive for many. The rampant deforestation is not unique to Somaliland. In southern Somalia, al-Qaeda-linked Shebab insurgents turned charcoal burning and exportation into one of their major sources of income.

How much electricity does Somalia produce per year?

of electric energy per year. Per capita this is an average of 20 kWh. Somalia can completely be self-sufficient with domestically produced energy. The total production of all electric energy producing facilities is 378 m kWh, also 104 percent of own requirements.

What is the Somali electricity project & why is it important?

The project also aims to reestablish a stable electricity supply and support regional integration. Out of a population of about 15 million, 9 million Somalis lack access to electricity services, and the cost of power is among the highest in the world.

Should Somalia build more solar-powered water wells?

A community well is functional in all seasons, can be easily maintained by the local community, and provides water for people, livestock and crop irrigation for generations, allowing the area to flourish. Building more solar-powered water wells in Somalia would transform the lives of its most vulnerable communities.

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