

Industrial microgrids somaliland

DHYBRID was able to implement the extensive expansion despite the ongoing pandemic and the far-reaching logistical challenges with the help of international partner teams and remote-controlled commissioning.

Somalia and the Republic of Somaliland are among the countries with the highest energy prices in the world. The energy system is characterized by isolated city networks with diesel generators. At the same time, the need for electrical energy is growing due to the rapid expansion of infrastructure. The port of Berbera is supposed to improve the flow of goods to Ethiopia with its over 100 million inhabitants and is currently being expanded for almost half a billion dollars. Berbera also has its own airports, which are also supplied with energy by BEC.

BEC uses the technology-open Universal Power Platform (UPP) from DHYBRID as a process control system and monitors its energy network with the SCADA system from the microgrid specialists from Germany. The term SCADA stands for Supervisory Control And Data Acquisition and describes computer-aided systems for monitoring technical systems.

The lithium-ion storage system from DHYBRID can be operated in parallel with the grid or as a grid-forming system. In this operating mode, in conjunction with the UPP, it almost completely rules out network instabilities and faults that are triggered, among other things, by the increasing energy demand.

The project in Somaliland is one of the first in the world to use the patented Maximum Inverter Power Tracking (MIPT) from DHYBRID, which increases the proportion of solar power in microgrids.

DHYBRID is a specialized, international solution provider of renewable and hybrid energy systems for islands, industry and utility companies, headquartered in Munich. The company offers turnkey solutions and individual control systems for hybrid energy projects. DHYBRID combines the conventional energy supply through diesel generators or unstable supply networks with renewable energy systems and storage technologies - perfectly controlled and comprehensively visualized.

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