



# Bangui island microgrids

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Leonics has designed this hybrid solar system to generate electricity, which combines diesel generator with PV array to power minigrid and operates with Hybrid System Control Command Unit (HCCU) and Telemonitoring for remote power monitoring and control, which can display real-time and event log data for tracking and analyzing the system operation and efficiency any time at any place via

To this end, IRENA and the UN Refugee Agency (UNHCR) are working together to promote the use, increased uptake and replicability of renewable energy solutions as cost-effective and environmentally sound options in situations of displacement and other similar humanitarian settings. Under this arrangement, IRENA released a study at the Global Refugee Forum in December 2019 to assess energy usage in four refugee camps in Iraq and Ethiopia, and to devise a blueprint for providing more reliable and affordable energy supplies using renewables.

IRENA is expanding its work to cover all energy transition pathways. Among them is a key pathway for the power sector transformation, namely the provision of energy access through the deployment of off-grid renewable energy solutions.

Among technologies, battery storage systems are essential to achieving 100% renewable energy in SIDS. They provide services to increase the electricity system's reliability and support renewable energy integration. Furthermore, stored electricity can meet peak demand without other system assets, support system voltage and frequency, and balance the energy supply when renewables are not available.

The latest Tracking SDG7 report of 2023, shows that about 40% of Sub Saharan African (SSA) countries do not have official electrification plans and only about 22% have set electrification targets at least as ambitious as SDG indicator 7.1.1. This raises concerns about the efforts towards universal access goals. Besides, West Africa emerges as the second-largest region in Africa with limited access to electricity, accounting for 30% of its population (567 million) without light in 2021.

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