



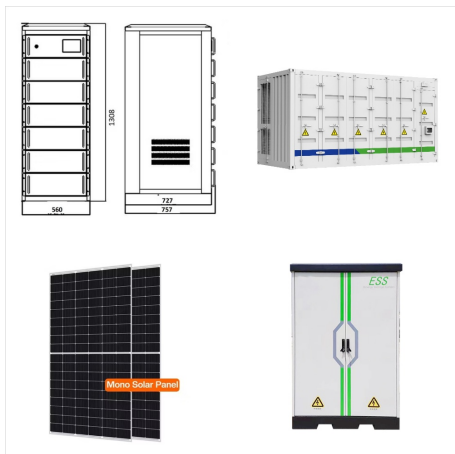
The growing demand for energy services and the strong political will towards rural electrification create substantial opportunities for the development of a vibrant, decentralised, clean energy market. Research shows that 47% of the population of Burkina Faso would optimally be served by clean hybrid mini-grids and stand-alone solar systems.



This study investigated three scenarios based on the existing microgrid's characteristics: conventional standalone diesel generators, PV/diesel without battery storage and PV/diesel with a battery storage system which are the main technologies used for off-grid rural electrification in Burkina Faso.



developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided



This renewables readiness assessment (RRA) for Burkina Faso presents key recommendations to accelerate the country's energy transition, with a view to securing a sustainable, affordable energy supply, increasing rural energy access, diversifying the economy and addressing climate change.



In short, micro-grids and decentralised energy systems are promising solutions for improving access to energy in Burkina Faso. By integrating renewable energy sources, empowering communities and overcoming implementation challenges, these systems can transform the country's energy landscape and contribute to sustainable development.



In order to overcome this challenge, The Government of Burkina Faso (GoBF) has set ambitious targets target on national electrification access of 36% (2020) and 75% (2030) and, through the Electrification Development Fund (FDE), already promoted the concept of mini-grids through the installation of around 50 minigrids powered by diesel

# BURKINA FASO MICRO HIGH ENERGY



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Access to energy is a major challenge in Burkina Faso, with only 22.5% of the population benefiting from electricity, particularly in rural areas. This highlights the need to develop innovative solutions to improve energy supply.

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The aim is to increase access to clean energy by improving the financial viability of, and promoting large-scale commercial investment in, solar photovoltaic minigrids in Burkina Faso. The project will also support the government's COVID-19 recovery efforts and strengthen the resilience of vulnerable communities by supporting livelihoods and



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