

How much electricity is consumed in Burkina Faso?

In Burkina Faso, 95% of the electricity is consumed in urban areas, while electricity needs in peri-urban and rural areas remain almost uncovered [64]. The national policy for electrification is dominated almost exclusively by slow grid extension supported by the government subsidising fossil fuel electricity production.

Is Burkina Faso a paradigm case for electrification?

Burkina Faso proves to be paradigm case for the methodology as its national policy for electrification is still dominated by grid extension and the government subsidising fossil fuel electricity production.

Should Burkina Faso's rural electrification strategy be driven by renewable resources?

The results also suggest that Burkina Faso's rural electrification strategy should be driven local renewable resources to power distributed mini-grids. We find that this approach would connect more people to power more quickly, and would reduce fossil fuel use that would otherwise be necessary for grid extension options.

The project, approved by the Council of Ministers in February 2024, under the leadership of President Ibrahim Traoré, involves the construction of a 25 MWp solar power plant at the Donsin airport site in central Burkina Faso.

This study aims to evaluate and compare the environmental impacts of stand-alone photovoltaic (PV) systems with storage installed in Burkina Faso using the life cycle assessment (LCA). SimaPro 9.4 software, Ecoinvent 3.7 database, and the ReCiPe 2018 (H) median method were used to assess the environmental impacts. The functional unit ...

This study aimed to assess and compare the environmental impacts of stand-alone PV systems with storage installed in Burkina Faso. Two scenarios differing in battery technology (lead acid and lithium-ion) and two others in end-of-life management (landfill and recycling) were studied.

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Burkina Faso, such as all countries in West Africa, suffer power failure requiring mobile operators to deploy huge fleet of stationary batteries. This is the case of ONATEL the first operator in the country, which has already ...

Most of the time, for economic purposes, these hybrid PV/diesel power plants in rural areas do not include any storage system. This is the case in the Bilgo village in Burkina ...

To the best of the authors' knowledge, there is no scientific literature on the integrated assessment of PV systems with storage options (either PHS or electric battery storage) in the context of Burkina Faso.

The project, already approved by the Council of Ministers on 9 February 2024, chaired by Head of State Ibrahim Traoré, involves the construction of a 25 MWp solar power plant on the site of Donsin airport, located in the council of Loumbila in central Burkina Faso.

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The functional unit considered is "1 kWh of electricity produced in Burkina Faso by a stand-alone PV system". Four scenarios combining two variables, battery technology (lead-acid and lithium-ion) and end-of-life management (landfill and recycling), were studied to assess 08 environmental indicators.

IFC's engagement has provided Burkina Faso's government with insights on developing private sector-backed battery storage in Burkina Faso, contributing to national ambitions and policies regarding both energy access and climate change.

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Like wind power, solar energy is intermittent and only feeds the grid during the day. To solve this problem, Burkina Faso wants to direct some of the funding to battery-based electricity storage systems that will meet demand after sunset.

Burkina Faso could drastically increase the use of renewable energy in its power mix by developing battery storage solutions through public private partnerships, according to a roadmap supported by IFC.

Rural electrification achievements in Burkina Faso are very modest, still less than 5% of the rural population have access to electricity. The rural electrification plan for Burkina Faso is scattered in several policies for electricity sector development.

Burkina Faso, such as all countries in West Africa, suffer power failure requiring mobile operators to deploy huge fleet of stationary batteries. This is the case of ONATEL the first operator in the country, which has already entrusted to regenerate batteries to Delta Energy.

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