

## ContainerPower Energy Solutions

# Liberia Adam Energy Storage Project



## Overview

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Liberia, a developing nation, faces significant challenges in its energy sector, with limited access to electricity and heavy reliance on traditional biomass and imported fossil fuels. This review explores Liberia.

How can Liberia expand energy access?

These resources hold immense potential, with Liberia boasting abundant solar irradiation and promising bioenergy in specific regions. Efforts to expand energy access also hinge on vital factors such as international partnerships, public-private collaborations, and innovative off-grid and mini-grid solutions.

How can Liberia reduce its dependency on imported fuels?

To overcome these challenges, Liberia has been exploring alternative solutions to reduce its dependency on imported fuels for thermal power generation. One strategy is to diversify the energy mix by increasing the share of domestic renewable energy sources, such as solar and wind power, for electricity generation.

What are the challenges to energy access in Liberia?

The primary challenge to energy access in Liberia is the limited and underdeveloped energy infrastructure. The lack of adequate power generation, transmission, and distribution systems contributes to this low access rate. The electrification rate is significantly lower in rural areas, where most of the population resides .

Why does Liberia rely on imported petroleum products?

The country relies on imported petroleum products for  $\geq 90$  % of its energy consumption. This reliance on imports increases energy costs and exposes Liberia to the volatility of global fuel prices. The high cost of imported fuels poses a barrier to energy access, especially for low-income households who struggle to afford electricity services.

Will Liberia get a 20 MW power supply in 2020?

In addition, the government signed a Power Purchase Agreement with a solar energy company to provide the country  $\geq 20$  MW of electricity in 2020 . Despite these efforts, much work remains to be done to improve access to reliable and affordable energy in Liberia.

How can Liberia improve energy reliability?

As exemplified by Liberia's import initiatives, regional energy cooperation should be considered to bolster energy reliability. Engineers are advised to optimize energy mixes, incorporating wind, biomass, and solar energy into existing grids, and developing mini-grid initiatives for rural areas to address energy access challenges.

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