



**SolarTech Power Solutions**

# **Togo Base Station Energy Management System Layout**



## Overview

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Who manages the power plants in Togo?

Most of the power plants of this type are managed by the grid operator and utility CEET. The largest two run by CEET are located in the capital Lomé and have a capacity of 12MW each. The largest thermal power plant in Togo is operated by Contour Global, a private company and has a capacity of 100 MW.

Who is responsible for the energy sector in Togo?

Another important player in the energy sector is the Togolese Agency for Rural Electrification and Renewable Energies (AT2ER), a public institution, with financial autonomy. The agency is in charge of implementing the country's rural electrification policy, promoting and developing renewable energies.

How many power plants are there in Togo?

Currently, seven power plants are operated with fossil fuels in Togo with a cumulated capacity of ~260 MW. These so-called thermal power plants use thermal gas, thermal oil and thermal DDO to produce electrical energy. Most of the power plants of this type are managed by the grid operator and utility CEET.

How much energy does Togo use?

In total, electricity supply of 1.162 GWh is thus achieved through distribution losses, resulting in a final electricity consumption of 876 GWh. Togo's total energy consumption is divided into three sectors. The largest share, 76%, is in the use of biomass, followed by petroleum products 20%. Only 4% of energy is used in the form of electricity.

Where does Togo's energy come from?

Togo's energy consumption comes from three sources: biomass, petroleum products and electricity. Biomass consumption comes entirely from domestic

resources. The total production amounts to 31.788 GWh of primary energy, with the largest part coming from firewood and the rest from plant waste.

Are base transceiver stations scalable and controllable DC microgrids?

Author to whom correspondence should be addressed. This paper describes a practical approach to the transformation of Base Transceiver Stations (BTSs) into scalable and controllable DC Microgrids in which an energy management system (EMS) is developed to maximize the economic benefit.

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