

## SolarTech Power Solutions

# Which containerized energy storage tank is reliable in Sierra Leone



## Overview

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Case study from Sierra Leone – Containerized power asset solutions for solar off-grid mini-grids Sierra Leone's challenging socio-economic context includes high poverty rates, particularly among children, unemployment, a serious lack of healthcare and limited access to electricity [1]. As of 2020.

n rolled out as an affordable and reliable option. Since 2017, Systems Sunlight has been engaged in strengthening carbon emissions and enhance sustainable forestry. The 236kWp solar P ting healthcare and education sectors in the area. The system includes 400Wp solar power panels and a 102.6kWh.

Asantys Systems has developed containerized solar-storage solutions in Sierra Leone, featuring solar containers with capacities ranging from 30 kW to 130 kW. Applications: Suitable for small network devices, telecom, and satellite equipment. 19" rack backup battery: LiFePO4-based, ensures telecom.

Over 60% of Sierra Leone's population lacks reliable electricity access according to World Bank data. Power storage vehicles help bridge this gap by: "Mobile storage systems reduce diesel generator dependency by up to 70% in off-grid locations." – Renewable Energy Association of West Africa 1.

The global solar storage container market is experiencing explosive growth, with demand increasing by over 200% in the past two years. Pre-fabricated containerized solutions now account for approximately 35% of all new utility-scale storage deployments worldwide. North America leads with 40% market. How many energy containers are there in Sierra Leone?

One out of 20 energy containers designed and delivered by Asantys Systems GmbH and installed by the operator partner PowerGen in a village in Sierra Leone. Photo: Michael Duff – InfraCo.

Who is supplying containerized solar power in Sierra Leone?

Photo: Michael Duff – InfraCo PowerGen, through their Sierra Leone project company Off-Grid Power (SL) Ltd\*, has tendered 20 containerized solar systems for implementation in Work Package 2 of the RREP. The German system integrator and EPC Asantys Systems GmbH was selected to supply the containerized solar power assets.

Does Sierra Leone need off-grid electricity?

As of 2020, Sierra Leone's rural electrification rate stood at a mere 4.8%, making it one of the lowest rates in sub-Saharan Africa. Acknowledging the challenges posed by costly grid expansion, the Government of Sierra Leone (GoSL) has identified off-grid solutions as a viable approach to meet the electricity demands of its rural communities.

What is the largest off-grid solar energy initiative in Sierra Leone?

This milestone project, implemented by Off-Grid Power \* (funded by PIDG company, InfraCo Africa) aimed to provide first-time electricity to 6,657 households & businesses in Sierra Leone, making it the largest off-grid solar energy initiative in the country.

How many households were illuminated in Sierra Leone?

At the end, a total of 6,657 households in rural Sierra Leone were illuminated for the first time, with access to clean and sustainable electricity provided by the containerized solar power solutions from Asantys Systems GmbH .

How many people have access to electricity in Sierra Leone?

An estimated 346,015 individuals in rural Sierra Leone have directly gained access to electricity. These beneficiaries access connections through

households, CHCs, schools, commercial and productive uses and the Work Package 6 grant programme . The project also extends its impact to 373,976 indirect beneficiaries.

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