



WALMER ENERGY

# **Bidirectional Charging of Mobile Energy Storage Containers in Côte d'Ivoire**





## Overview

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Will a lithium-ion battery energy storage system be installed in Côte d'Ivoire?

A lithium-ion battery energy storage system (BESS) made by Saft will be installed at a 37.5MWp solar PV power plant in Côte d'Ivoire (Ivory Coast). It is the African country's first-ever large-scale solar project and the batteries will be used to smooth and integrate the variable output of the PV modules for export to the local electricity grid.

What is a bi-directional charging system?

This shift is made possible by the cutting-edge bi-directional charging technology. Bi-directional charging allows EVs to function as mobile energy storage units. Equipped with this technology, EVs can not only draw power from the grid but also return electricity to it, or supply power to homes during peak demand or in the event of blackouts.

Can bidirectional electric vehicles be used as mobile battery storage?

Bidirectional electric vehicles (EV) employed as mobile battery storage can add resilience benefits and demand-response capabilities to a site's building infrastructure.

Can bidirectional EVs be used as mobile storage?

In contrast to stationary storage and generation which must stay at a selected site, bidirectional EVs employed as mobile storage can be mobilized to a site prior to planned outages or arrive shortly after an unexpected power outage to supplement local generation or serve as an emergency reserve.



## Bidirectional Charging of Mobile Energy Storage Containers in Côte d'Ivoire

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### Bidirectional Charging and Electric Vehicles for Mobile Storage

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### C244TE D'IVOIRE MANUFACTURES ENERGY STORAGE CONTAINERS

How many energy storage containers are there in Côte d'Ivoire? The fully-integrated lithium-ion ESS will comprise six Saft Intensium Max High Energy containers, providing a total of 13.8 ...

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Saft supplying BESS for first solar PV plant in Côte d'Ivoire

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Smart Charging and V2G: Enhancing a Hybrid Energy Storage ...

Feb 23, 2025 · This paper introduces a novel testing environment that integrates unidirectional and bidirectional charging infrastructures into an existing hybrid energy storage system.

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