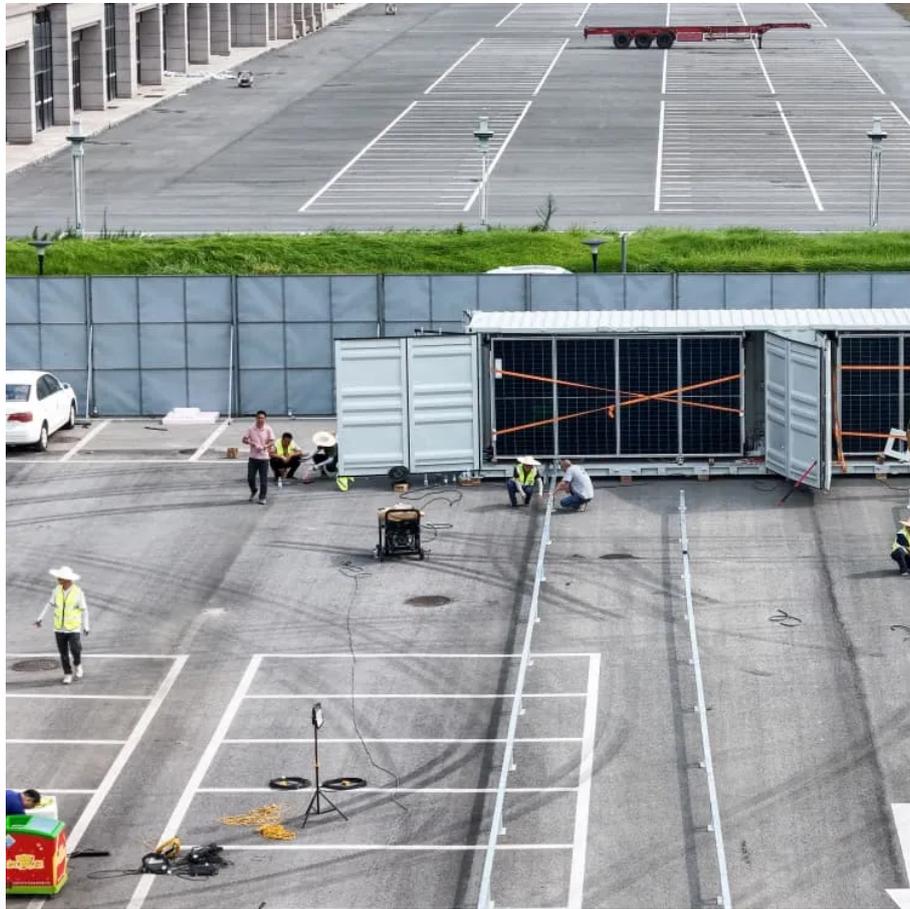


## Kongres Container

# Namibia energy storage battery specifications



## Overview

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The system uses lithium iron phosphate (LiFePO<sub>4</sub>) batteries from China's Narada Power, chosen for their thermal stability in Namibia's 45°C summers. Here's the clever part – it'll store: By releasing stored energy during evening demand peaks (6-9 PM), Namibia could reduce diesel.

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By 2030 the Namibian government plans to increase the share of renewable energies (RE) in its electricity generation from around 30% to 70%. With a growing share of RE the need for measures to maintain and improve energy supply stability is also growing. A battery storage system such as the KfW.

The Vertiv(TM) DynaFlex BESS uses UL9540A lithium-ion batteries to provide utility-scale energy storage for mission-critical businesses that can be used as an always-on power supply. This energy storage can be used to smooth out power usage and seamlessly transition to an always-on battery-enabled.

In December 2023, the country signed contracts for its first utility-scale battery energy storage system (BESS) – a 54MW/54MWh project at Omburu Substation [1] [2]. But why should the world care about this project in a nation of 2.5 million people?

Wait, no – it's not just about keeping lights on.

BESS can charge during off-peak when energy prices are low and discharge at peak times when energy prices are high. • Arbitrage only makes sense when the price difference between off-peak and peak times offsets efficiency losses  
The Omburu BESS will be able to assist the grid stabilize voltage by.

The country has taken a significant leap toward securing a stable and renewable energy future with the arrival of the first major equipment for the 51-megawatt (MW) Omburu Battery Energy Storage System (BESS) project.

This groundbreaking initiative marks the country's first utility-scale battery.

NamPower, Namibia's state-owned power utility, has signed a contract with a Chinese joint venture to build the first utility-scale battery energy storage system (BESS) in the country and the Southern African region. The contract was awarded to Shandong Electrical, Engineering & Equipment Group Co.

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