

## ContainerPower Energy Solutions

# Offshore battery cabinet power supply



## Overview

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Can a floating battery power barge deliver high-capacity shore power?

Mobile shore power solutions, with- or without a battery will ensure port authorities compliance to regulations. This analysis outlines a floating battery energy storage platform - referred to as the power barge - capable of delivering high-capacity shore power to offshore construction vessels.

What equipment & systems qualification is required for offshore electrical substations?

Equipment and systems qualification such as energy storage systems (ESS), computer-based systems, power electronic converters, large power transformers, Medium Voltage (MV), High Voltage (HV) gas insulated switchgear equipment, circuit breakers for DC and AC systems, installed on the offshore electrical substations facilities.

What is a shore distribution system / electrical service platform/offshore substation?

The connection from the electrical service platform/offshore substation to the shore distribution system is to be protected from shore power faults, frequency, and voltage variations in accordance with the applicable recognized codes/standards in the country where it is providing power.

What is ABB Marine energy storage?

ABB Marine Energy Storage integrate battery power with any energy source. This enables spinning reserve, peak shaving, enhanced DP with more.

How does a maritime energy storage system work?

The maritime energy storage system stores energy when demand is low, and delivers it back when demand increases, enhancing the performance of the vessel's power plant. The flow of energy is controlled by ABB's dynamic Energy Storage Control System.

What is a power barge?

The power barge at the heart of this study is a floating battery energy storage system designed to deliver clean, high-capacity shore power to offshore construction vessels while at berth or on standby.

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