

## Kongres Container

# Saint Lucia Energy Storage Equipment BESS Enterprise



## Overview

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How efficient is a Bess battery system?

The BESS shall have a DC round-trip efficiency of > 90% when charged and discharged at 2 C (7.5 MW). The Contractor to indicate the efficiency of the system at the rated discharge and charge power levels and any degradation thereof as battery system ages.

How much power can a Bess system be charged & discharged?

4.1.1.7 In all BESS operating modes, the system shall be capable of being charged or discharged at power levels anywhere from 0 to 100% of the rated charge and discharge power, respectively. 4.1.1.8 The Contractor shall advise if there is any de-rating of the discharge capabilities below a certain SOC.

What are the requirements for a Bess system?

The BESS shall include short circuit, over current, voltage surge/spike protection, over voltage and over temperature protection. The Contractor must specify and include networking equipment, software and implementation scheme to allow remote monitoring of the BESS. This remote monitoring may be implemented through LUCELEC's SCADA system.

What is a Bess battery PCs specification?

This Specification provides the technical requirements for the BESS. The corresponding Battery PCS requirements are the subject of a separate Technical Specification, Schedule B - Power Conversion System (PCS) Specification. 1.1.1.4 The work called for is subject to the purchase order documents.

What is included in a Bess system?

The BESS shall include an integrated control system. Each container shall include indicating lights for circuit breaker status and other core functions as required. In each container, the E-stop button and indicating lights shall be

installed on the front of enclosures so they are visible without need to open enclosure cabinet doors.

What is Bess scope of supply?

3.1.1.1 The BESS scope of supply includes but is not limited to the items identified in Table 1. Fully assembled Battery Racks consisting of a number of parallel strings, each string comprising of a number of Battery Modules, and each module formed by Lithium-Ion battery cells to meet the power and energy requirements specified herein.

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