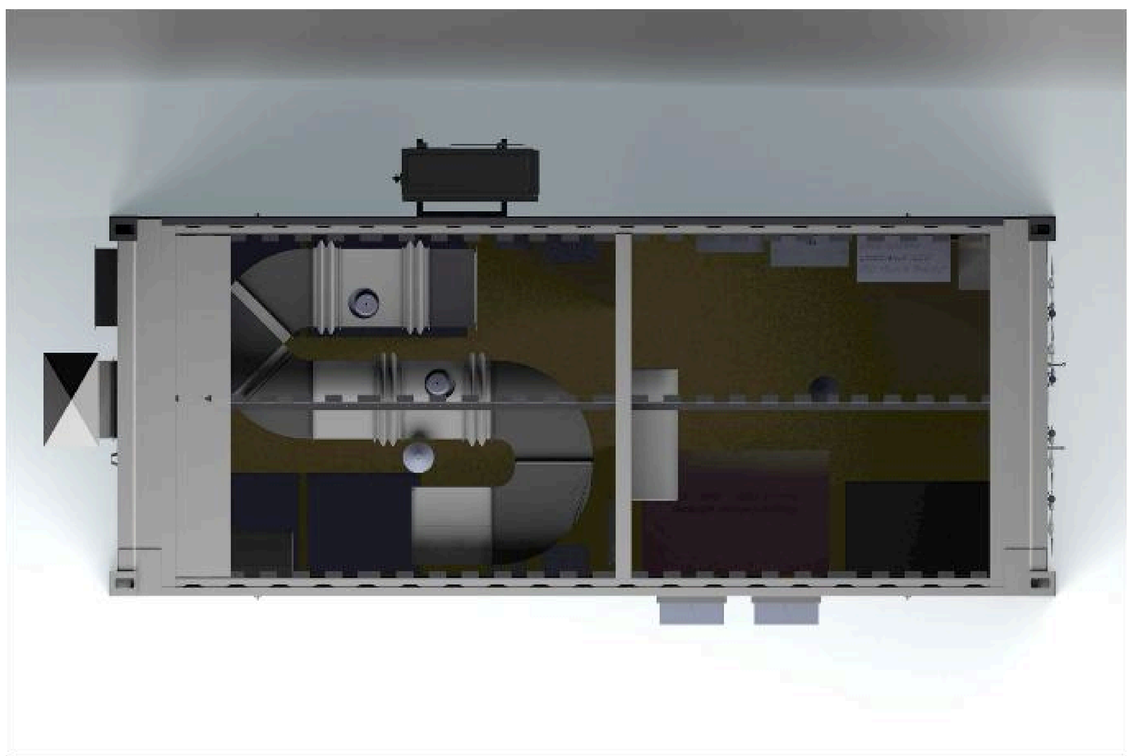
COMPOSITION OF A CONTAINER ENERGY STORAGE SYSTEM



CONTAINER ENERGY STORAGE SYSTEM LIST OF EQUIPMENT

1. Bidirectional inverter
2. LFP battery cells (3.2V, 154 Ah)
3. Battery module with BMS (Battery Management System)
4. Battery cabinet for 15 modules
5. DC distribution panel
6. Control system panel with operator interface
7. Main distribution board
8. Modular building (container)
9. Lighting system
10. Heating system
11. Ventilation system
12. Fire alarm cabinet
13. Security alarm cabinet
14. Air conditioner (split system)
15. Surveillance cabinet
16. Fire extinguishers

TECHNICAL SPECIFICATIONS OF ESS
based on lithium iron phosphate batteries

Parameter	**Value**
Rated power	100 kW – 1 MW (40-foot container)
Energy capacity of batteries	100 kWh – 1 MWh (40-foot container)
Nominal AC output voltage	0.4 kV
Battery voltage	600 – 1500V
Nominal charging current *	0,2 – 0,5C
Maximum charging current *	0,5C – 1C
Nominal discharging current *	0,5C – 1C
Maximum discharging current *	1C – 3C

*Note:
C refers to the nominal capacity of the battery. Approximately, when discharging at 1C, the ESS will deliver power equal to the battery’s energy capacity in kWh, with a full discharge occurring in 1 hour.