

**BESS Modular Container Installation Services**

**High Level Scope of Work**

* **Project Management**
* **Site Supervision**
* **CIVIL Construction**
	+ Site construction manager
	+ Site Preparation/Clearing and Grubbing
	+ Backfill, Compaction and Inspection
	+ Erosion Contraol/De-Watering
	+ Final Grading
	+ Pad foundations & concrete work
	+ Escavation, Trenching and Grading
	+ Laying Conduit
	+ Ground grid and cadwelding
	+ Fencing
* **Modular Container off loading and placement**
	+ Modular Container damage inspection
	+ Crane & rigging services
	+ External ground connections
* **Equipment and cabling damage inspections**
	+ Pre power-up NEC quality inspections and defect corrections
	+ Visually inspect BESS Equipment and batteries for damage
	+ Check cable tray and ironwork for loose hardware
	+ Check communications & low voltage cabling for loose connections
	+ Internal Ground Ring retorque
	+ Ground fault ohms testing between each connection
	+ Battery strapping retorque
	+ Battery serial number and voltage readings log
	+ Inspect piping and bracing
* **Externally mount HVAC units and exterior lighting**
	+ Caulking around HVAC units and vents
	+ AC cabling connections to commercial power
	+ Power up and operational verification
	+ Capacity and controller function testing
	+ Refrigerant & condensate line inspection
	+ Water intrusion testing
	+ Exterior light installation and testing
	+ Drip rail inspections
* **Communications cabling to Demarcations**
	+ Ethernet cabling, connecting, and data test verification
	+ Fiber cabling, splicing, and OTDR test verification
* **Fire suppression inspections and alarm system verification**
	+ Fire tanks
	+ Sensor testing
	+ Alarm testing
	+ Cylinder Pressure verification
	+ Agent in cylinder
	+ Smoke detectors
	+ Abort stations
	+ Audible signals
	+ Manual pull stations
	+ Visual signals
	+ Release solenoid
	+ Door and fan test
* **A/C connections from the modular container to the transformers**
* **Battery Load testing**
* **Final quality inspections**

**Energy Services options if Batteries and Electronics are shipped separately from the Modular Container**

**\*Additional services including the items that apply above**

* **Equipment offloading and inventory**
* **Switchboard installation**
* **Battery Rack Installation**
* **Battery Module Installation**
* **Low & Medium voltage AC cabling**
* **Cable Megger test verification**
* Ground fault ohms testing between each connection
* **Electronic equipment Installation**
	+ Battery Maintenance System, Node controllers, Inverters, Uninterrupted Power Source
* **Communications Rack installations**
	+ Fiber and Ethernet Patch panels
	+ Communications cabling and data test
	+ Fiber Ring cabling, splicing and OTDR testing
	+ Temperature sensor and leak rope installation and test
	+ Emergency Stop cabling and test
	+ Camera system installation turn up and test
	+ Wireless Access Point installation and test
	+ Alarm system cabling
* **Fire suppression system installation**
* **Battery and Equipment Maintenance Services**
* **Final quality inspections**

Alamon provides turnkey solutions, including Civil Construction and Electrical low/medium voltage interconnections, with our BESS installation services by working with trusted partners in most geographic locations.

For inquiries and a complete list of equipment or services offered, please contact

Troy Reeves at troy@alamon.com or call at 406-253-5768

David Dailey at dailey@alamon.com or call at 406-210-1137