



BESS Emergency Response Plan

Core Components Checklist

Purpose: This checklist provides a quick reference for the four essential components that must be included in every BESS Emergency Response Plan. Use this to verify your ERP covers all critical elements before finalization.

1 Emergency Contacts

- 911 / Local Fire Department** - Non-emergency contact and emergency dispatch
- System Owner/Operator** - 24/7 emergency line with authority to authorize shutdowns
- Battery Manufacturer** - 24/7 technical support hotline for emergency guidance
- Network Operations Center (NOC) - Remote monitoring center with real-time system data
- Utility Emergency Line - Grid operator for coordination of shutdowns and grid impacts
- Inverter/PCS Manufacturer - Technical support for power conversion system
- Local Police Department - Security and site access control
- Fire Marshal - Pre-incident planning and regulatory coordination

2 Site Information

- Battery Chemistry** - Specific type (LFP, NMC, LTO, etc.) and associated hazards

- System Capacity** - Total MW/MWh and capacity per enclosure/unit

- Voltage Levels** - DC voltage range and AC interconnection voltage

- Site Layout Map - Showing enclosure locations, access routes, and emergency assembly points

- Fire Suppression System - Type (aerosol, water mist, clean agent) and activation method

- Cooling System - Air-cooled, liquid-cooled, or immersion cooling

- Emergency Disconnect Locations - Main isolation points and access instructions

- Safety System Locations - Fire detection, gas detection, and ventilation controls

3 Response Procedures

- Fire/Thermal Runaway Protocol** - Evacuation, 911 call, safety perimeters (100+ feet)

- Toxic Gas Release Protocol** - Immediate evacuation, upwind assembly, SCBA requirements

- Electrical Incident Protocol** - Shock response, arc flash procedures, stranded energy awareness

- Chemical Spill Procedures** - Coolant/electrolyte containment and cleanup

- Emergency Shutdown Procedures** - System isolation and manufacturer coordination

- Evacuation Routes and Assembly Points** - Primary and secondary locations

- Re-Entry Criteria** - Conditions that must be met before site re-entry

- Post-Incident Monitoring** - Fire watch requirements and re-ignition risk management

4 Coordination Protocols

First Responder Communication - What information to provide to fire department on arrival

Grid Operator Notification - When and how to notify utility of BESS status changes

Decision Authority - Who can authorize emergency shutdowns and system operations

Incident Commander Role - Interface between facility personnel and emergency services

System Owner Coordination - Required authorizations and technical guidance

Manufacturer Support Protocol - When to engage technical support during incidents

Regulatory Reporting Requirements - Agencies to notify and timeframes

Stakeholder Communication - Insurance, legal, and corporate notification procedures

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