



| BESS 24/7

24/7 Emergency Response Services

About Us

Fire & Risk Alliance (FRA) is a leader in fire and risk engineering. Our staff is composed of highly trained and educated engineers and scientists that focus on developing optimised solutions for our clients throughout the world. Our hands on practical experience, active engagement in the industry, and our applied research ensure that we provide state-of-the-art solutions to our clients.

On-Demand Emergency Response Expertise

At the heart of our comprehensive 24/7 response services lies a dedicated team of seasoned experts who specialise in battery energy storage systems (BESS). Whether you're managing a grid-scale installation or a commercial facility, our experts are poised to offer immediate Subject Matter Expertise (SME) whenever you need it, day or night. We understand the critical importance of maintaining safe operations and minimising downtime in BESS environments, where even a minor issue can have significant consequences.

Our round-the-clock availability means that you can rely on us to swiftly address any concerns or emergencies that arise, allowing you to focus on your core operations with peace of mind. By leveraging our extensive experience and deep understanding of BESS technologies, we help you mitigate risks and optimise performance, ensuring that your system operates at peak efficiency while safeguarding against potential hazards.

Capabilities

FRA staff has extensive capabilities in **Battery Energy Storage Systems, Hazard Analysis, and Emergency Response:**

- Battery Testing & Analysis
- Thermal Runaway Assessment
- Battery Heat Release Rate Analysis
- Plume Modeling
- Emergency Response Planning
- Emergency Responder Training
- Firefighting Guidelines
- Incident Command
- Risk and Hazard Mitigation
- Research and Development
- Community & Zoning Board Support
- Expert Testimony
- Heat Flux Analysis
- Blast Modeling
- Origin & Cause Investigations
- NFPA 68 Design
- NFPA 69 Design
- Fire Suppression Design
- Fire Alarm Design



Services

Peace of mind comes from having access to experienced experts in an emergency.

Subject Matter Expertise

Experience matters when dealing with an emergency. Our experienced SMEs know the hazards of battery energy storage systems and how to mitigate them. Let them share that expertise with you, so you don't have to learn the hard way.

Emergency Response & Decommissioning

In an emergency, having experts on site can help minimise damage and mitigate risks. Our team of experts will help ensure a safe, effective response to your emergency. Once the emergency is over our team can oversee the decommissioning process ensuring a safe removal and disposal of any impacted equipment.

Emergency Response Plans

Developing a thorough Emergency Response Plan (ERP) is the first step to being prepared for an emergency. Our team of experts can help you develop a comprehensive ERP that will have you covered in any emergency.

Fire Department Training

To be effective when dealing with a BESS emergency, your fire department must be properly trained on the hazards and mitigation strategies specific to your site. Our expert instructors can train fire department personnel on everything they need to know to be prepared for an emergency at your site.

FDNY Certificate of Fitness Holder

FRA is a FDNY Certificate of Fitness holder as required to be a BESS SME by NYC R608. This means that regardless of where in the world you are, our experts will be available on the phone within 15 minutes.

Team Experience

- FDNY Chief of Department (Ret.)
- FDNY HazMat Battalion Chief (Ret.)
- NYC CoF Holder
- Fire Fighter 1
- Firefighter 2
- HazMat Technician
- Industrial Firefighting (TEEX)
- Rope Rescue Operations
- Vehicle Extraction Operations
- Aerial & Pump Operations
- EMT-B, CPR, EVOC
- Oil & Gas Operations
- High Voltage (345 kV)
- Power Generation
- Electric Utility
- LNG



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Engineering a safer future towards a 100% renewable energy