



CUSTOMER CASE STUDY

Pioneering Fail-Safe Distributed Energy Storage Systems

Fail-Safe Energy Storage: Decarbonizing a Summer Jazz Festival.

Dotted amidst the stages and crowds at every music festival is the web of infrastructure that supports the entire operation. From audio/video/lighting, to concessions, to security and communications, all equipment needs power, and because most festivals are temporary installations, they've historically been powered by mobile diesel generators. No one wants the noise, fumes, and Co2 emissions of diesel interrupting the atmosphere of a concert—so how do you power an event without diesel? Enter mobile Battery Energy Storage Systems (BESS).

CHALLENGE:

The Energy Storage Business Unit of **Timberline Consulting Group**, sought an alternative to diesel generators—not only to deliver quieter power for a Western New York jazz festival, but also to reduce operating expenses. Traditional diesel generators used for mobile operations are often oversized for their loads, resulting in inefficient fuel consumption and maintenance issues caused by wet stacking. They turned to Viridi for three reasons:

- 1. Expertise:** Viridi has deployed hundreds of battery-generator microgrids at events across the US and Canada
- 2. Safety:** Viridi builds its battery packs with acclaimed Fail-Safe Anti-Propagation architecture to contain a cell-level thermal runaway event with no release of heat, smoke, sparks, or flame.

Discover the full story— contact us now.

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INDUSTRY

Mobile Events

LOCATION

Western New York

IMPLEMENTATION

- One RPS150
- **Control:** Viridi AI-Enabled EMS for Behind The Meter Energy Services like Solar Maximization
- **Monitoring:** ViSTA™ Monitoring and Control Dashboard enables remote oversight with real-time alerts

- 3. Insights:** Viridi equips its BESS with Industry-Leading IoT for real time data reporting, analytics, diagnostic, and control

RESULT:

At the festival, equipment operators deployed Viridi's **RPS150** in Generator-Hybrid mode. The battery delivered quiet, emissions free power to its connected load during the afternoon and evening festivities. During off-hours after the patrons had left, the battery auto started the generator to recharge, and about four hours later resumed powering the connected load. This hybrid operation is able to save between 50-80% of the fuel normally burned when a generator is the only power source for a mobile event, drastically cutting the emissions and operating expense for the equipment rentals provider.

