



CUSTOMER CASE STUDY

Pioneering Fail-Safe Distributed Energy Storage Systems

Resilient power to telecom towers for reduced cost and carbon

One of the largest investor-owned utilities in the U.S., serves over 20 million customers in New York and Massachusetts. Their communication towers must operate during power outages, but keeping them operational is costly, especially in remote locations like mountainside sites with limited access. These towers rely on diesel generators, which demand regular maintenance and refueling during extended outages, resulting in significant expenses across hundreds of towers.



CHALLENGE

Outages often require technicians to prioritize repairs over refueling or maintaining remote generators, adding cost and operational strain. Even during normal operations, maintaining these towers consumes extensive man-hours and capital. Additionally, their average power draw of 2 kW is inefficient for diesel generators running at low loads, leading to performance issues.

OPPORTUNITY

Viridi's fail-safe BESS offers a cost-effective solution for remote sites. These systems require no maintenance, can charge from any source, and include telematics for real-time monitoring. A single Viridi RPSLink system with a 50 kWh pack delivers about 24 hours of power. For higher energy needs, additional packs can be added, or the system can operate in hybrid mode with diesel.

INDUSTRY

Telecommunications

LOCATION

New York & Massachusetts

IMPLEMENTATION

- Viridi RPSLink system with a single 50 kWh pack provides ~24hrs power
- Additional 50 kWh packs can be added and can be run in hybrid mode with diesel
- ViSTA® VCom IoT for remote monitoring and management

SILVER LINING

Integrating BESS with or in place of diesel generators supports decarbonization goals while reducing maintenance, fuel, transportation, and labor costs. Viridi's fail-safe batteries streamline and simplify telecom tower operations, delivering efficiency and sustainability.

Discover the full story— contact us now.

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