



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 this mountainside site 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 sites.



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 low average power draw is inefficient for diesel generators engines, leading to performance issues.

OPPORTUNITY

Viridi's RPSLink offers a cost-effective solution for remote sites. These systems require minimal maintenance, can charge from grid, renewables, or generators, and include telematics for real-time monitoring. This 150kWh system will deliver ~48hrs of primary backup, and the existing diesel generator was kept in place as a secondary redundant power source for prolonged outages like severe winter storms. RPSLink is modular - capacity can scale to any site's needs.

INDUSTRY

Electric Utility

LOCATION

New York & Massachusetts

IMPLEMENTATION

- Viridi RPSLinkEX with 100kWh capacity provides ~48hrs power
- Battery acts as primary backup, diesel generator serves as secondary redundant backup for prolonged outages
- 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 critical operations, delivering efficiency and sustainability.

Discover the full story— contact us now.

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