



# Electrifying the Future

*8 Energy Storage Solution  
Examples in Industrial Settings*





ELECTRIFYING THE FUTURE: *Energy Storage in Industrial Settings*

# Resilience in the Aftermath

## How Battery Energy Storage Can Assist During Disaster Recovery.

When a recent train derailment and resulting fire caused toxic chemicals to leech into the regional water supply, local officials didn't have time to think. The clean up team needed power for emergency response equipment spread across a wide, remote radius, and they needed it fast. They immediately called Viridi's RPS150 Mobile Energy Storage Systems to the remediation sites to provide reliable power, and safeguard the community during the long cleanup process.

Viridi's Mobile Energy Storage Systems are portable electric "fuel tanks". One RPS150 can provide up to 30kW to power pumps, demolition and digging equipment, electric vehicles, and more. Simplify logistics, and lower fuel and maintenance costs by offsetting diesel generators with clean, silent, long lasting electric power.

CUT DIESEL  
GENERATOR  
FUEL CONSUMPTION  
BY **50%-85%**



### WHAT WAS LEARNED

- ✓ Cut diesel fuel consumption by 50%+
- ✓ Lower remediation's environmental impact by cutting emissions
- ✓ Monitor and program RPS150 from anywhere through Virido IoT app
- ✓ Parallel multiple RPS150 to increase power capacity
- ✓ Recharge from any source—onsite renewables, grid, or diesel generation



Viridi's battery system is rigorously tested, safety-approved, and American-made.



Revolutionizing The Way Energy Is Used And Stored

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# Large-scale Indoor Battery Installations

## A Cost-effective Indoor Solution to Power Critical Medical Research.

A Medical Research lab recently purchased a set of high powered electron microscopes. Though only used for brief periods, their current draw exceeded the capacity of their building's electric infrastructure. So, instead of a long and costly utility upgrade, they call on Viridi's RPS50 stationary batteries to provide fail-safe, peak power at its point of use—inside their facility. Distributed Energy Resources are assets operated not by the electric utility, but by energy users—to balance grid loads, exploit renewable power, and meet zero-carbon emission goals.

### Safety is Viridi's #1 design priority:

We build our Thermal Management System into every battery product we make—eliminating the major historical drawback of Lithium-Ion chemistry: fire risk.

Our passive technology halts a thermal event at the cell level with no smoke or fire. Deploy distributed storage where you need it.



### WHAT WAS LEARNED

- ✓ Fail-safe design allows for battery deployment in and around occupied spaces
- ✓ Certified to UL Standards for indoor installation
- ✓ Immediate backup power islands your facility against voltage brownouts and blackouts
- ✓ Significantly lower electric bills through automatic load shifting and peak shaving
- ✓ Earn ongoing revenues by enrolling in demand response programs (where applicable)



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# Portable Energy Powers Adventure



## MESS for an Enchanting Entertainment Experience.

When the world's most famous Academy of Witchcraft and Wizardry needed remote power for a once-in-a-lifetime interactive experience, they called on Viridi. Our **RPS150 Mobile Energy Storage Systems** provide clean, silent, long lasting electricity to illuminate a spooky tour through a forbidden forest, complete with lights, sounds, spells, and fantastic beasts.

RPS150 Mobile Energy Storage System is our portable electric "fuel tank". In the past, co-located diesel generators meant spoiling the spooky woodland ambience with droning engine noise and lingering fumes, or the headache of running hundreds of yards of high voltage power lines from a sequestered location. This year, RPS150s were hidden throughout the event, providing clean, silent, long-lasting power for LED lighting walls, hidden speaker systems, staff intercom equipment, and more.

CUT DIESEL GENERATOR FUEL CONSUMPTION BY **50%-85%**



### WHAT WAS LEARNED

- ✓ Eliminate diesel noise and fumes
- ✓ Recharge from any source—onsite renewables, grid, or diesel generation (program automatic recharging to hours guests aren't visiting your facility, and cut fuel consumption by 50%+)
- ✓ Parallel multiple RPS150 with the push of a button to increase power capacity
- ✓ Monitor and program RPS150 from anywhere through IoT app



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# Powering the Party

## Transform Remote Places into Celebrations.

When a world famous art festival needed remote power for their annual party in the Nevada desert, they called on Viridi. Every year they set up the infrastructure to house seventy-thousand people in a temporary city on the sand, all of which they have to clean up after a week of festivities. In the past, they'd run the city on portable diesel generators, but between the cost of diesel fuel, logistics of transporting fuel tanks, and loud engine drone and lingering fumes dampening the experience, they sought a better alternative.

Thirty-five of Viridi's RPS150 Mobile Energy Storage Systems provided 37MWh over the course of a month in the field. Operators limited diesel generator use to recharging battery systems during the off-peak hours of the middle of the night. Viridi's 35 RPS150 Mobile Energy Storage Systems delivered 37MWh in a month, reducing reliance on diesel generators by over 50%. The units, operating in harsh conditions, efficiently utilized hybrid mode, enabling uninterrupted power supply during off-peak hours and demonstrating reliability in extreme weather.

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### WHAT WAS LEARNED

- ✓ Cut diesel fuel consumption by 50%+
- ✓ Monitor and program RPS150 from anywhere through IoT app
- ✓ Parallel multiple RPS150 to increase power capacity
- ✓ Generator hybrid mode allows for uninterrupted 24h operations
- ✓ Recharge from any source—onsite renewables, grid, or diesel generation



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# Take Power to the Extreme

## Remote Geography, Rugged Environment—No Problem!

The Race to the Clouds is a grueling event. For over one hundred years, automobiles have climbed the steep, winding 12.4-mile route to the summit of Pike's Peak, Colorado. At 14,115 ft elevation, the thin air at the finish line means less oxygen for the combustion process in traditional vehicles, giving EVs an edge over their fossil-fuel powered competition.

Viridi's team scaled 10 **RPS150 Mobile Energy Storage Systems** to provide a combined peak of 300kW through paralleling. This gave us the capability to provide over 3MWh of emissions-free charging power on the Peak. Thanks to Viridi's "fuel tank" for electric applications, it took just 20 minutes to replenish an electric vehicle's 50kWh ultra high-performance battery, before making a record-setting second hill climb.



### WHAT WAS LEARNED

- ✓ Provide mobile power anywhere—even the most remote, challenging locations
- ✓ Remotely monitor and program networks of RPS150 through IoT app
- ✓ Parallel multiple RPS150 to increase power capacity
- ✓ Recharge from any source—onsite renewables, grid, or diesel generation



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# Fueling Success

## Portable Power Keeps Your Business Rolling.

Logistics hubs, facing high fuel and maintenance costs, are exploring a shift to electric vehicles (EVs) for lower operating expenses. EV owners prioritize fast charging, favoring Level 3 DC fast chargers that can rapidly charge vehicles. However, the significant power spikes from these chargers may strain the electric grid, necessitating costly upgrades to the facility's electrical infrastructure. One cost-effective solution is deploying battery storage to mitigate power peaks.

**Viridi is your storage solution, regardless of fleet size.**

### Safety is our #1 design principle:

all Viridi systems come with our passive **Thermal Management System**, which halts a thermal event at the cell level with no smoke or fire

### Monitoring and Management:

all Viridi systems include our **VCom1500 IoT** for remote monitoring, programing, and diagnostic from any location



### WHAT WAS LEARNED

#### RPS150 mobile battery storage system:

- ✓ Skid or Trailer Mounted - tow behind a pickup truck
- ✓ 30kW peak power on demand, available anywhere.
- ✓ Parallel multiple RPS150 to increase power capacity
- ✓ Recharge from any source - onsite renewables, grid, or diesel generation

#### 1.2 MWh containerized battery storage system:

- ✓ Configured in a standard 20' shipping container
- ✓ 240kW peak power on demand
- ✓ Integrates with Building Management / SCADA Systems
- ✓ Recharge from any source - onsite renewables, grid, or diesel generation



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# Mining Freedom

## Unchain the Grid: Break Free with Portable Power Solutions for Mining.

The worldwide energy transition away from fossil fuels will demand a massive amount of raw materials. Electrifying transportation and heating will require a quintupling of today's global production of minerals like lithium and graphite. The mining industry, which currently accounts for 4-7% of annual greenhouse gas emissions, faces a massive challenge in simultaneously scaling its production and cutting its environmental impact. While some mines have access to grid power, and many are installing solar and wind power, replacing today's engines with tomorrow's motors will require reliable electricity, on demand.

**Viridi's Mobile Energy Storage Systems** are portable electric "fuel tanks". One RPS150 can provide up to 30kW to power pumps, demolition and digging equipment, electric vehicles, and more. Simplify logistics, lower fuel costs, and tap into the growing renewables market by offsetting diesel generators with clean, silent, long lasting electric power.

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### WHAT WAS LEARNED

- ✓ Lower your mining site's environmental impact through electrification
- ✓ RPS150 provides durable, low maintenance storage for uninterrupted power delivery
- ✓ RPS150 cuts fuel consumption by 50%+ compared with diesel generation alone, or recharges from onsite renewables to eliminate emissions
- ✓ Monitor and program RPS150 from anywhere through IoT app
- ✓ Parallel multiple RPS150 to increase power capacity



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# Green Light for Traffic Safety



## Intelligent Traffic Management Systems; Essential for Safer, Healthier Communities.

The “Internet of Things” is revolutionizing the world of traffic control. Light timing sensors, intersection cameras, and many more devices are being added to roadway infrastructure every day. With all this networked technology (not to mention the traffic lights themselves) there is a LOT riding on the stable delivery of grid power to keep traffic flowing safely. But with climate change intensifying storms, the grid is less stable than ever.

**Faveo Intelligent Traffic System** provides reliable, uninterrupted power during severe weather events. During an interruption, the system instantaneously powers up, allowing traffic lights, police cameras, and other critical intersection technology to continue operating. Your emergency personnel should be providing the essential public safety services they’re trained for—not manually directing traffic.



### WHAT WAS LEARNED

- ✓ Instantaneous backup in .02 seconds
- ✓ Remote monitoring and full telematics to support data sharing and alerts
- ✓ faveo systems are currently operating at municipal and state controlled intersections across all US and Mexico



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# Safe Power Within A Crowd

## Behind the Bench at UMD

SECU Stadium at the University of Maryland features a classic bowl design that exposes spectators and players to the variable weather of the Washington, DC Metro Area. To ensure the comfort of the men's football team, the stadium installed heated benches powered by electricity instead of natural gas or propane. These heaters draw a significant kW load but are operational for only a few hours on specific game days, requiring a flexible and mobile power solution. The **Viridi RPS150 Mobile Energy Storage Unit** was the solution. Safety is a top priority in the densely populated stadium, which can accommodate up to 51,802 attendees. Therefore, a large lithium-ion battery lacking anti-propagation technology poses a fire hazard and is unsuitable for use in close proximity to players, staff, and spectators.



### WHAT WAS LEARNED

- ✓ Viridi's unique Fail-Safe design prevents battery fire, allowing for battery deployment in a densely populated stadium on game days
- ✓ RPS150 is uniquely portable—mounted on a 4-wheeled trailer and towed into the stadium for events
- ✓ RPS150 can be recharged from any source - onsite renewables, connecting to grid, or mobile diesel generator
- ✓ Monitor and program RPS150 from anywhere through Viridi IoT app



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# Portable Energy is Changing Golf

## Teeing Off with Technology

When golf courses host major professional tournaments, bringing in tens of thousands of spectators and a live television broadcast, their need for power distribution skyrockets. In the past, this has meant a fleet of mobile generators, spoiling the ambience at the pristinely manicured course with droning engine noise and lingering fumes, and the headache of running hundreds of yards of high voltage power lines from a sequestered location.

At tournaments all over the country you'll find **RPS150s** hidden throughout the course, silently powering operations all day, and cutting the runtime of onsite diesel generators to just a few overnight hours when the batteries need to be recharged (and guests have gone home). This conveniently eliminates generator noise and fumes during hours of play, but most importantly cuts diesel fuel consumption (and carbon emissions) by upwards of 50-75%+.

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### WHAT WAS LEARNED

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# Cut the Noise, Cut the Emissions.

## Construction Job Sites

According to the UN Environment Programme, the construction and buildings sector is the single largest emitter of greenhouse gasses, representing 37% of global emissions each year. As the world strives to electrify, construction site power continues to be dominated by fossil fuels. Despite this challenge, construction equipment manufacturers are progressively investing more into their electrified product lines. To maintain the efficiency of current operations, electrified equipment must be charged on-site. With Viridi's ***RPS150 Mobile Energy Storage Systems***, this efficiency can be achieved while supporting the push towards green energy.

The ***RPS150*** can drastically reduce reliance on fossil fuel generators, support electrification initiatives, and reduce job site noise and harmful pollutant emissions. Our VCom1500 IoT enables remote monitoring, programing, and diagnostics from any location, allowing contractors to build a centrally controlled fleet. Safety is our #1 design principle: all Viridi systems come with our passive Thermal Management System, which halts a thermal event at the cell level with no smoke or fire. 24/7 customer service means that your job site will have support at any hour of the day.

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### WHAT WAS LEARNED

- ✓ Charge electrified equipment on the job site
- ✓ RPS150 cuts fuel consumption by 50%+ compared with diesel generation alone, or recharges from onsite renewables to eliminate emissions
- ✓ Drastically cuts noise and harmful pollutants on job sites
- ✓ Trailers allow mobile units to be moved from site to site



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**PIONEERING FAIL-SAFE DISTRIBUTED ENERGY STORAGE TECHNOLOGY**



# **Shaping a Sustainable Future.**



**SCHEDULE A DEMO**

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