

Dominion Energy deploys first-of-its-kind mobile battery energy storage system as clean alternative to diesel generator

- *The mobile units are emissions-free, charge from the grid or their own solar panels and don't make noise.*
- *They can be used to power festivals, concerts, remote worksites, EVs, and provide backup power during outages to utilities and emergency management organizations.*



The mobile battery energy storage system known as Green Grid 90 kWh mobile battery energy storage system (MBESS) can generate power via solar panels on its roof – or it can be plugged in and store energy for later.

RICHMOND, Va. (Dec. 18, 2025) — Dominion Energy is holding a ribbon-cutting today to deploy a first-of-its-kind mobile battery energy storage system that serves as a clean alternative to diesel generators.

The Green Grid 90 kWh mobile battery energy storage system (MBESS) generates energy from solar panels on its roof and stores it in a lithium-ion battery. The units, which also can be plugged in to charge, are emissions-free and don't require fuel or make noise. They can also be daisy-chained together for larger power demands.

The Green Grid 90kWh MBESS (patent pending by Dominion Energy) is the first non-diesel mobile battery energy storage system to meet the most stringent fire prevention and safety standards – most notably 'UL 9540' – which means it's the only such unit that can be covered by insurance. One unit can power a medium-sized food truck for nine hours.

"This is the next generation of mobile power sources," said Ed Baine, Executive Vice President of Utility Operations and President of Dominion Energy Virginia. "These units generate energy, don't have any emissions, and don't require fuel. Plus, they don't make noise like diesel generators. They're ideal for small businesses, utilities or government agencies that need portable power – and want clean energy, too."

The Green Grid 90 kWh MBESS is trailer-mounted, has wheels, and can be towed by a mid-sized SUV. It can be used to power festivals, concerts, weddings, remote worksites, electric vehicles, and provide backup power to utilities and emergency management organizations during outages. In 2024, the prototype units were instrumental in establishing a communications network for emergency support personnel during Florida's recovery efforts after Hurricanes Helene and Milton.

Invented by Dominion Energy, the Green Grid 90 kWh MBESS is designed, manufactured, sold and serviced by [Power Up Connect](#), a Maryland-based charging technology company. The product is now available for commercial purchase.

"We built the Green Grid 90 kWh MBESS to meet the highest standards," said Scott Calhoun, President and Chief Operating Officer of Power Up Connect. "From safety, to reliability, to mobility, we know that people will be relying on our system to get them the energy they need in places where there are no other options. It has to work, and our MBESS system delivers."

Dominion Energy Virginia will strategically locate multiple MBESS units at company facilities, including the first one at its Chesterfield training facility, where the ribbon-cutting is being held.

About Dominion Energy

Dominion Energy (NYSE: [D](#)), headquartered in Richmond, Va., provides regulated electricity service to [3.6 million](#) homes and businesses in Virginia, North Carolina, and South Carolina, and regulated natural gas service to 500,000 customers in South Carolina. The company is one of the nation's leading developers and operators of regulated [offshore wind](#) and [solar](#) power and the [largest producer of carbon-free electricity in New England](#). The company's mission is to provide the [reliable, affordable, and increasingly clean energy](#) that powers its customers every day. Please visit [DominionEnergy.com](#) to learn more.

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