

U.S. Department of Energy Competitiveness Improvement Project (CIP)

2024 Small Turbine Certification and Listing Awardee: Uprise Energy

Project dates: Jan. 9, 2025–Oct. 8, 2026

Project Overview

Small Wind Turbine Designed for Both Mobile and Permanent Installations

While small wind turbines have long played a role in distributed energy, they have historically been limited to stationary installations. Uprise Energy (Uprise, upriseenergy.com) has developed the Uprise Mobile Power Station (MPS)—a 12-kilowatt (kW) wind-powered system suitable for both mobility and permanence. Its trailer-based design integrates energy storage and enables rapid installation without site preparation, making it uniquely suited for emergency response, mobile microgrids, and remote operations.

At the same time, the MPS can be installed for extended use in conventional distributed energy scenarios, offering a flexible alternative to fixed systems.

Through its 2024 CIP award—the first for Uprise—the company will pursue third-party certification to unlock new markets and validate a technology that expands the role of wind in both traditional and unconventional settings.

“This CIP award enables us to pursue third-party validation of the Uprise Mobile Power Station—a critical milestone in removing barriers to commercial adoption, scaling production, and accelerating sales of this portable wind turbine.”

Jonathan Knight, CEO, Uprise Energy



Shown hitched to a standard ¾-ton pickup, the Uprise Energy Mobile Power Station is fully self-contained and highway-towable. Its compact design allows for rapid deployment and easy transport, fitting within a standard trailer footprint while housing a complete energy system that includes a wind turbine, battery storage, and power electronics. *Photo from Jonathan Knight, Uprise Energy*

Project Outcomes and Deliverable

Uprise will complete third-party certification of the 12-kW MPS, validating the system’s safety, reliability, and performance and enabling Uprise to enter broader commercial and government markets that require certified wind technology.

Project Approach

In partnership with RE Innovations, Uprise Energy will complete the full third-party certification process for its 12-kW MPS. Certification activities will include design review; structural analysis; power performance, acoustic, and duration testing; comprehensive documentation; and compliance audits.

Project Collaborators

Current and future project partners include:

- *RE Innovations* (www.reinnovationsllc.com)—Certification partner conducting the necessary third-party testing and compliance documentation
- *ICC-SWCC* (smallwindcertification.org)—ACP 101-1 certification
- *NRTL* (*Nationally Recognized Testing Laboratory*)—Final product listing

Project Financial Information

Award Amount: \$300,000

Awardee Share: \$109,446

Total: \$409,446

“Uprise Energy served as an industry partner in NREL’s Defense and Disaster Deployable Turbine Project (D3T). We are pleased to support the certification efforts for the Uprise Mobile Power Station.”

Brent Summerville, Technical Monitor, National Renewable Energy Laboratory (NREL)

Small Turbine Certification and/or Listing Award

One of 10 types of CIP awards, Small Turbine Certification and/or Listing projects apply to turbines up to 150 kW peak power that are seeking certification to ANSI/ACP 101-1-2021, The Small Wind Turbine Standard. Projects might also include work to list the turbine assembly or component(s) to applicable electrical safety standards.



Shown deployed in a remote coastal location, this Uprise Energy Mobile Power Station was set up in minutes and began generating power immediately. *Photo from Jonathan Knight, Uprise Energy*

About the Competitiveness Improvement Project

The U.S. Department of Energy’s (DOE’s) CIP awards cost-shared subcontracts and technical support to manufacturers of small and medium-sized wind turbines. Managed by NREL on behalf of DOE’s Wind Energy Technologies Office, CIP helps advance wind energy as a cost-effective, distributed generation technology option.

More Information

Visit NREL’s website at www.nrel.gov/wind/competitiveness-improvement-project.html

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