

RADWIND Project Resources

The *Rural Area Distributed Wind Integration Network Development* (RADWIND) project¹ produces case studies, technical reports, and tools to help rural utilities evaluate how distributed wind projects can support utility and community goals. All current and future resources can be found on the project's website page, www.cooperative.com/radwind.

CASE STUDIES

RADWIND case studies profile distributed wind projects at rural utilities. They include project background, evaluation, planning, financing, technology, interconnection, and impacts to cooperatives and members.

- **Iowa Lakes Electric Cooperative (IA)**
CREBs, corn, and community: How a pioneering wind project was made possible by favorable financing, ethanol plant industrial substations, and a co-op's perseverance and partnerships
- **Lake Region Electric Cooperative (MN)**
Renewable energy and rate stabilization from an innovative wind-solar hybrid project
- **Homer Electric Association (AK)**
Net metering for member-owned distributed wind
- **Rural Electric Convenience Cooperative (IL)**
How coal formed the foundation for a distributed wind energy project in rural Illinois
- **Cuming County Public Power District (NE)**
How a public power partnership with a local developer benefits an agricultural community in Nebraska
- **Fox Islands Electric Cooperative (ME)**
Generating local wind energy and resiliency for two Maine island communities
- **San Isabel Electric Cooperative (CO)**
How a southern Colorado distribution cooperative fulfills its state requirements and its mission with distributed wind
- **Kotzebue Electric Association (AK)**
Replacing diesel fuel with a wind hybrid system in Alaska's Arctic tundra



Abandoned coal mine buildings at the GobNob wind site. Credit: Rural Electric Convenience Cooperative

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REPORTS

RADWIND technical reports help electric cooperatives evaluate and plan distributed wind projects.

- **2021 NRECA RADWIND Survey (April 2021)**
Provides summary results of a recent survey of NRECA's distribution cooperative and other rural distribution utility members, with a focus on co-op awareness, experience, and interest in distributed wind generation.
- **Use Cases for Distributed Wind in Rural Electric Cooperative Service Areas (April 2021)**
Covers the beneficial use of wind as a distributed energy resource (DER) across three major use cases: Front-of-Meter, Behind-the-Meter, and Off-Grid. These can utilize various sizes of wind turbines on their own or hybridized with other DER technologies.
- **Value Case for Distributed Wind in Rural Electric Cooperative Service Areas (May 2021)**
Defines the potential values of distributed wind project to an electric cooperative or other rural utility, including peak shaving, grid and resiliency support, and local economic development.
- **Financing Distributed Wind Projects in Rural Electric Cooperative Service Areas (August 2021)**
Discusses various types of financing, incentives, and business models that can be used by electric cooperatives and other rural utilities to deploy distributed wind projects, or to support their members in doing so.

TOOLKIT

- **Distributed Wind Toolkit**
Includes resources to help co-ops evaluate, scope, plan, and execute distributed wind projects. The toolkit can be accessed on the RADWIND project landing page, or directly at www.cooperative.com/distributed-wind.

CONTACT FOR QUESTIONS

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RADWIND Project

In 2021, NRECA Research began the *Rural Area Distributed Wind Integration Network Development* (RADWIND) project with funding from the U.S. Department of Energy. RADWIND's goal is to understand, address, and reduce the technical risks and market barriers to the adoption of distributed wind technologies by rural utilities. As such, the RADWIND project is developing many practical resources for electric cooperatives and other rural utilities about distributed wind projects. For more information, please visit the project landing page: www.cooperative.com/radwind.