

EVERSOURCE ENERGY CENTER

INNOVATION PARTNERSHIP BUILDING AT UCONN TECH PARK



About

The Eversource Energy Center at the University of Connecticut (UConn) is a dynamic partnership where weather, climate and energy intersect. At the center, state-of-the-art research, technology and software are solving real-world challenges for utility customers.

The center is improving storm readiness and response to help keep communities energized. UConn's science-based solutions are advancing the delivery of reliable power and enhanced risk management in extreme weather. Solutions include high-resolution weather and outage forecasting, and 3-D aerial and ground imagery.

This next-generation research is mitigating storm hazards, delivering improved reliability, shortening and preventing outages and increasing the resilience of the electric grid.

Areas of Expertise

- Storm outage modeling to predict a storm's impact on the power grid by evaluating the timing and location of outages. This allows pre-staging of repair crews and equipment to expedite power restoration.
- Developing software to support the safe integration of renewables (e.g., solar, wind) into the utility grid.
- In response to climate change, evaluating sea-level rise and flooding potential. The goal is to protect critical infrastructure networks including transportation, water and electricity.
- Applying tree biomechanics and social science research to promote the resilience of the power grid and the beauty of local forests.
- Physical and cyber security research for monitoring and protecting the interconnected electric grid.
- Laser technology to improve grid operations by creating a 3-D picture of utility equipment and the surrounding environment.

Center Characteristics

Overview

We welcome you to experience the Eversource Energy Center and our leading-edge research and collaboration with utilities and industry partners.

With our excellent team and expertise, we are the frontrunners in reducing storm hazards and increasing the resiliency of the electric grid for millions of people, their communities and local economies.

We invite utilities, organizations and industry partners to participate in our research, activities and initiatives.

With a proven consortium approach, we are delivering the next generation of technologies and software, leading to transformative commercial products and services along with advances in storm preparedness.

Our exceptional partnerships are driving innovation. We invite you to join us in building the future together, today.

Center Benefits

Our center's research is improving electric reliability, emergency response, cyber and physical security, and reducing and shortening power outages. And it's already proven very successful for electric utility customers and the industry as a whole.

- The center is building the electric grid of the future. Using sophisticated lab and field equipment, we are leveraging the expertise of UConn's faculty, post-doctoral and graduate researchers with our industry partners.
- Collaboration with federal and state agencies expands our center's reach into the next generation of technologies, analysis and insights.
- World-renowned scientists and researchers are seeing our center's activities at internationally attended industry, professional and academic conferences.

Contact

Eversource Energy Center

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Established Reputation

We are known and trusted by our partners as innovative, collaborative and solution oriented. UConn is ranked among the top 20 public research universities in the country and attracts world-class researchers.

Through the center, our partners work directly with distinguished faculty and graduate students in our schools of Engineering, Agriculture, Health and Natural Resources, and Business.

Center researchers enjoy active collaborations with research institutions nationally and globally, enabling research teams to partner and address complex environmental and energy sustainability needs.

As an esteemed academic institution, UConn is a trusted voice in the community. Our center's team will partner with you to engage your community and business leaders by sharing research outcomes and benefits.

Our foremost utility/academia partnership is advancing leading-edge research and building strategic partnerships. Together, we are improving storm readiness and electric reliability and enhancing grid resilience to keep our communities energized.



Innovation Partnership Building

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