EVERSOURCE ENERGY CENTER

ADVANCING PREDICTIVE ANALYTICS

BEST PRACTICES FOR SUSTAINING FORESTS & TREES

PROMOTING GRID EFFICIENCY & STORM RESILIENCE

ASSISTING COMMUNITIES IN STORM PREPAREDNESS

Dear Colleagues,

I warmly welcome you to experience our Eversource Energy Center and our leading-edge research and collaboration with utilities and industry partners. With our world-class team and expertise we are the frontrunners in mitigating storm hazards and increasing the resiliency of the electric grid. This benefits millions of people and the communities and businesses in which they live and work.

As you will see, our interdisciplinary approach is delivering critical and timely science-based solutions. Our state-of-the-art research, technology and software are solving real-world challenges where weather, climate and energy intersect. Important societal benefits for communities, businesses and municipalities include enhanced reliability and emergency response, and minimizing storm and other security event impacts.

We invite utilities, organizations and industry partners to participate in our research, activities and initiatives. Our proven consortium approach will deliver the next generation of technologies and software, leading to transformative commercial products and services and advances in storm preparedness.

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

Prof. Emmanouil Anagnostou, Ph.D.
Director, Eversource Energy Center

Why Partner With Eversource Energy Center

Our Center's research is improving electric reliability, addressing cyber and physical security developments, and developing smart systems to support community planning and preparedness. And it's already proven very successful for utility customers and their communities. Join us and you will experience the benefits of a strong partnership, including:

Benefiting from our expertise in business and predictive modeling, weather forecasting, forestry, remote sensing technologies and more.

Collaborating with utility, industry, government and academic leaders in one unique setting.

Connecting with Center researchers who enjoy close collaborations with National Centers (e.g., National Center for Atmospheric Research, National Severe Storms Laboratory) and are well-funded by federal agencies (National Science Foundation, NASA, DOE, NOAA, USDA).

Maximizing your data by combining it with Center resources to create actionable intelligence for better decisions about your infrastructure, investments and timing.

Gaining early access to leading-edge research results. With your input, we will also tailor future research areas and our researchers will pair one-on-one with your company's experts to customize a research plan for science-based solutions.

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, you will work directly with distinguished faculty and world-class 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 team will partner with you to engage your community and business leaders to share research outcomes and benefits.

Proven Success & Broad Expertise

Our Center is leading the research and delivering results on a wide range of emerging topics. Our excellent research capabilities, from data collection to experimental test beds, are solving real-world challenges on energy resilience.

Highlights of several current research projects include:

- Storm modeling to predict a storm's impact on the power grid by evaluating the timing and location of outages, which enables the pre-staging of repair crews and equipment and an expedited power restoration for residents, businesses and municipalities.

- Incorporating renewables and understanding how distributed solar and wind resources are safely integrated into the distribution network.

- Climate change adaptation and mitigation activities related to sea level rise and flooding potential on critical infrastructure networks, including transportation, water and electricity.

- Tree biomechanics and social science research to maximize power grid resiliency and maintain the natural beauty of community environments.

- Outreach and educational programs to communities to reduce power outages through the creation of healthy storm-resistant roadside forests.

- Physical and cyber security research as it pertains to the interconnected electric grid.

- Cost and benefit analyses of resiliency programs to demonstrate those with the greatest influence on improved reliability.

- Airborne and ground-based laser technology to create a 3-D picture of local conditions and utility infrastructure.

Intellectual Property & Training

Our Center's operational framework promotes each partner's goals and interests.

UConn has an excellent track record designing intellectual property agreements that are tailored to each partner.

The Center offers customized graduate certificate programs to help train utility engineers, scientists and analysts, as well as those interested in sustainable environmental planning and management.

As the foremost energy-academia partnership, we are 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.
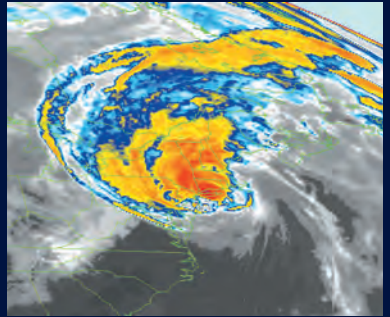
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