

Eversource Energy Center

INNOVATIVE

PROGRESSIVE

PROACTIVE

A unique university – energy
company partnership

Promoting research excellence
and leading the industry to
develop new technologies
and science-based solutions
for delivering reliable power
and advanced risk management
in extreme weather

Advancing the next
generation of storm
damage modeling to
shorten outages
.....

Applying best
practices for sustainable
and storm-resistant
forest design
.....

Implementing electric
grid operating efficiency
and storm resiliency
improvements

Storm Damage Forecasting

RELIABLE ENERGY

SUPERIOR SERVICE

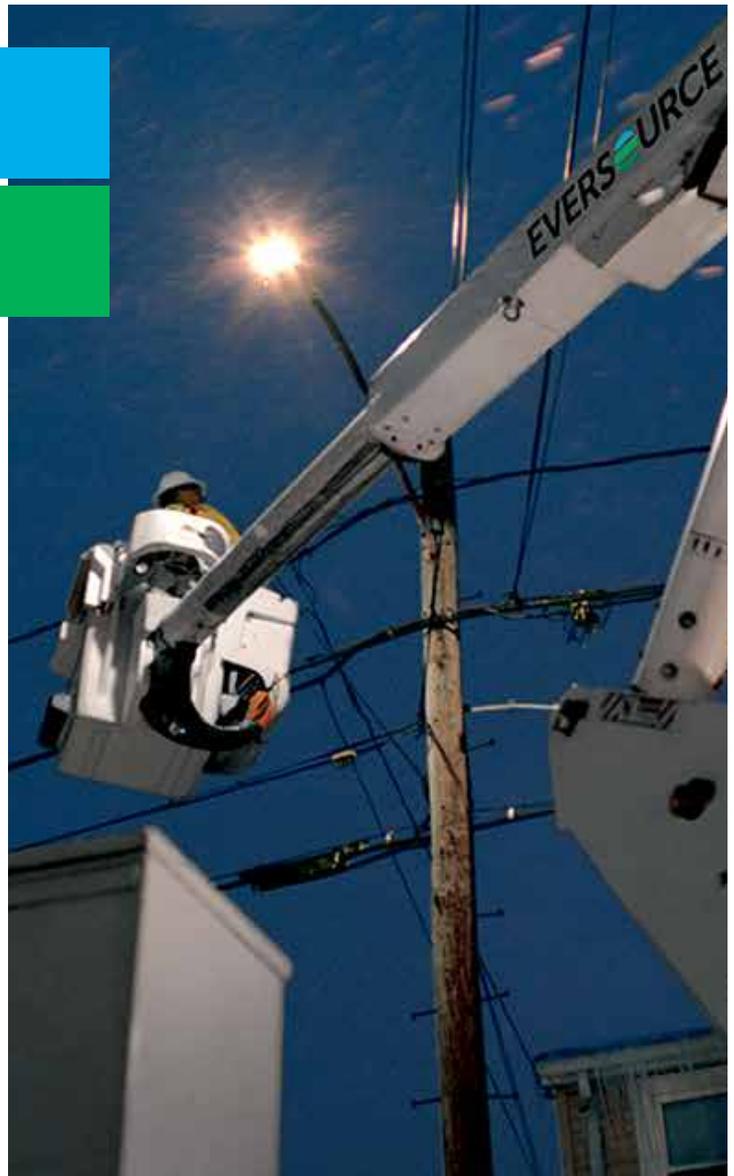
The UConn Storm Damage Prediction Model generates a dynamic picture of anticipated storm and system impact

Determining the number of crews needed with strategic deployment before a storm arrives

Identifying distribution system design improvements for greater resiliency

Avoiding and shortening outages

Ensuring faster storm response and accelerating restorations



Our Center, with leading-edge forecasting, will establish Eversource and UConn as frontrunners in storm resiliency and hazards mitigation

Forest Management Stormwise Program

SUSTAINABLE

STORM RESISTANT

With 90 percent of power outages during storms caused by trees, Stormwise links forest management and community outreach for stronger, wind-firm trees

Using tree sway research and laser technology to show the benefits of tree trimming

Reducing outages—in both number and duration

Retaining the beauty of scenic roads and reducing roadside maintenance costs

Identifying best practices readily shared with communities, tree wardens and forest managers

Supporting Connecticut's local wood industry



We are working with towns to implement a 'right tree, right place' planting approach for planning before planting and preventing damage to the electric grid

Electric Grid Reinforcements

RESILIENT

LEADING EDGE

We are increasing the resiliency of critical facilities and infrastructure to withstand storm impacts

Identifying strategic areas for stronger electric grid design and reliability

Using advanced laser imaging for a 3-D measure of tree threats to overhead lines

Simulating grid conditions to evaluate reinforcement benefits

Assessing the benefits of distributed and emergency generation for increased reliability and shorter outages

Enhancing grid protection with an emphasis on cyber security best practices



Together, Eversource and UConn are leading the industry with state-of-the-art research for delivering reliable power and managing extreme weather events

EVERSOURCE

UConn