## A Consumer Advocate's Perspective on Electric System Grid Resilience

**ELIN SWANSON KATZ** 

CONNECTICUT CONSUMER COUNSEL

PRESIDENT, NATIONAL ASSOCIATION OF STATE UTILITY CONSUMER ADVOCATES (NASUCA)

**Electricity Advisory Committee** 

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#### Reliability v. Resiliency v. Grid Mod

- Reliability: Keeping the service on at all times, replacing equipment as necessary, ongoing maintenance.
- Resiliency: The ability to absorb, respond to, and recover from catastrophic events.
- Grid Modernization: Upgrading electrical grid to integrate new technology
- Grid mod Resiliency Reliability

## Is fixing this pole considered... Reliability? Resiliency? Grid Mod?



Does it matter?

## The Connecticut Experience



- Tropical Storm Irene August 2011
- Halloween Nor'easter October 2011
- Super Storm Sandy October 2012

800,000 outages 831,000 outages 626,000 outages

#### After the storms

- Approximately \$450 million in storm costs for our two IOUs from the three storms
- \$300 million+ for storm hardening
- Currently in the midst of a grid mod docket expected to wrap up by end of the year

Consumers shouldn't have to pay more than once

# How much resilience do we need? Depends on...

Location, location





- State energy and climate policies
- How much resilience can we afford?

#### What would be useful

- More uniform resilience analytical framework
- Prioritization of customer needs
- Careful consideration of who pays, and how they pay
- Continued dialogue among stakeholders
- Training, collaboration on policy development, more educational opportunities