

Experiences and Best Practices to Address Climate Change in New Jersey

Moderator

Michael Catania, Duke Farms

<u>Panelists</u>

Russell Furnari, PSEG Services Corporation
Chris Huch, JC NERR
Stephen Marks, City of Hoboken
Pamela Mount, Terhune Orchards
Nicky Sheats, Thomas Edison State University

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Preparing New Jersey For Climate Change New Jersey Climate Adaptation Alliance http://njadapt.rutgers.edu/



-Stakeholder Engagement

- -Tools
- -Resources
- -Reports
- -Videos
- -Research





Ongoing Projects Address

- -Public Health and CC
- -Expert Panel: Sea Level Rise
- -Water Supply and CC
- -Social vulnerability
- -Community level engagement
- -Pollution Prevention/Toxics





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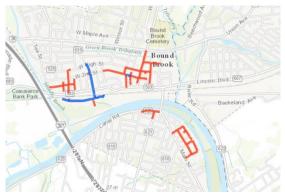
PSEG Electric & Gas System

Sandy Impact

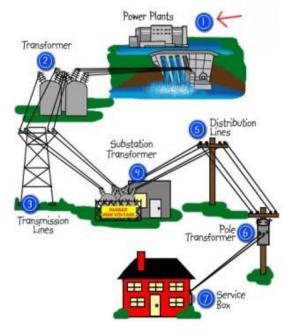
2 million Customers impacted
90% lost power during the event
14 Switching Stations affected - 33%
51 transmission lines out,
96 PSE&G Substations affected - 39%

6 Generating Stations affected









Actions to Adapt Infrastructure

Raise or relocate switching and substations that were damaged by water in recent storms.

Replace and modernize low-pressure cast iron gas mains in or near flood areas.

Redundancy built into the system, reducing outages when damage occurs.

Deploying smart grid technologies to better monitor system operations to increase our ability to more swiftly deploy repair teams.

Construct Flood protect ion at gas metering stations, a liquefied natural gas station and generating stations affected by Sandy or located in flood zones.



Jacques Cousteau National Estuarine Research Reserve

Resilience.







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City of Hoboken, New Jersey

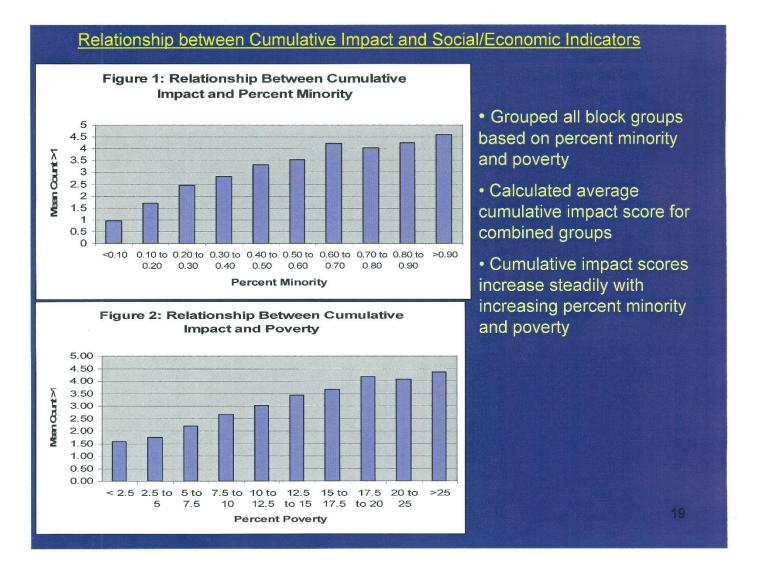


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- Grow crops well suited to NJ/New varieties
- Drip irrigation, monitors, sensors, weather station, satellite computer network
- Solar panels; Energy efficiency
- Extend Growing Season
- Diversify
- On-Farm & Community Markets
- IPM & Organic Practices



Thomas Edison State University



Duke Farms

Reducing Carbon and Mitigating Climate Change **Duke Farms** Energy Carbon Footprint Renewable Energy Conservation Analysis Landscaping and Farming Practices Public Education Carbon Sequestration and Professional Training