



# *Concepts for Supporting Underserved Communities with Energy Storage*

Energy Storage Webinar Series

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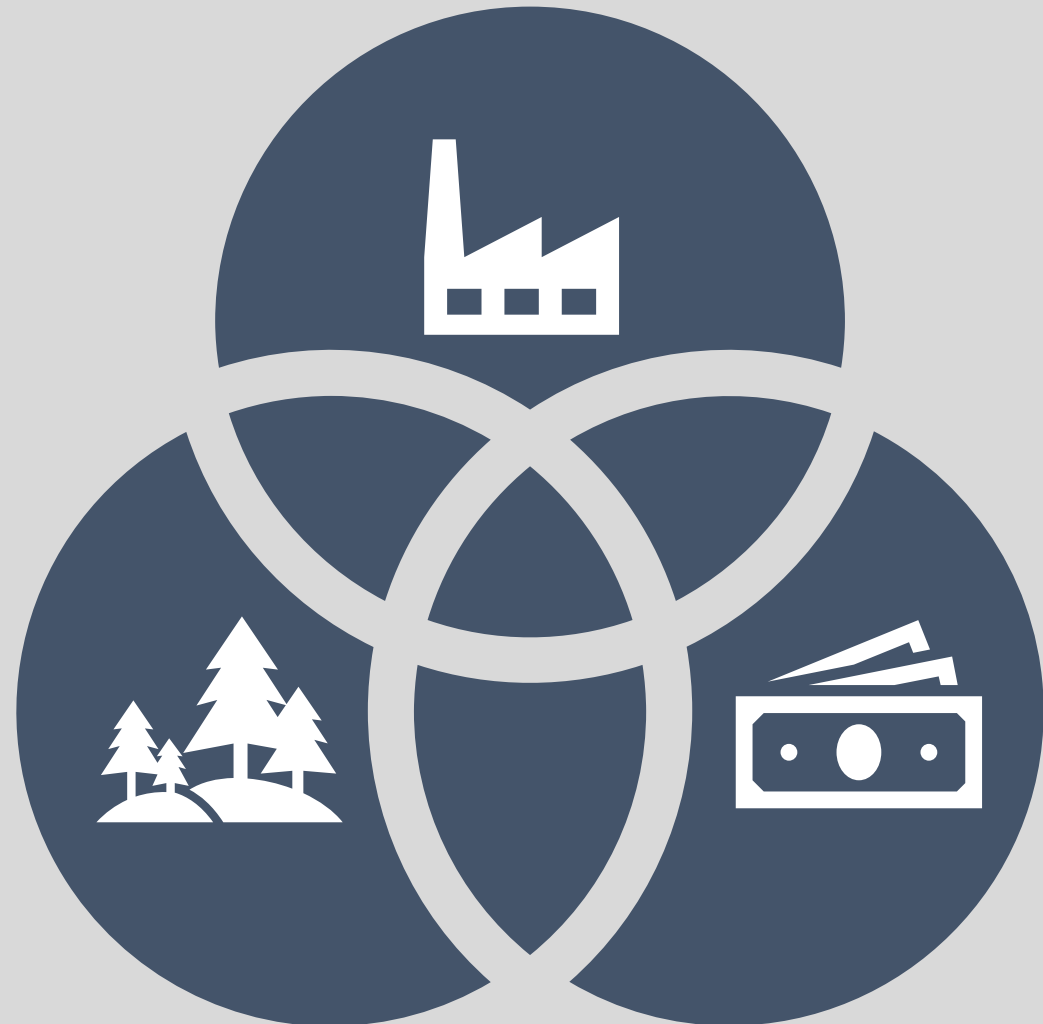
New Jersey Board of Public Utilities

# Agenda



## Benefits of Energy Storage

Reduce Emissions // Increase Energy Resilience // Job Creation





# Background

Energy Storage is key to a resilient, secure, and carbon-free energy future

- Energy Storage Capabilities:
  - Saves energy for later use
  - Provide electricity to critical facilities during power outages
  - Balance electricity supply and demand
  - Complement renewable energy sources

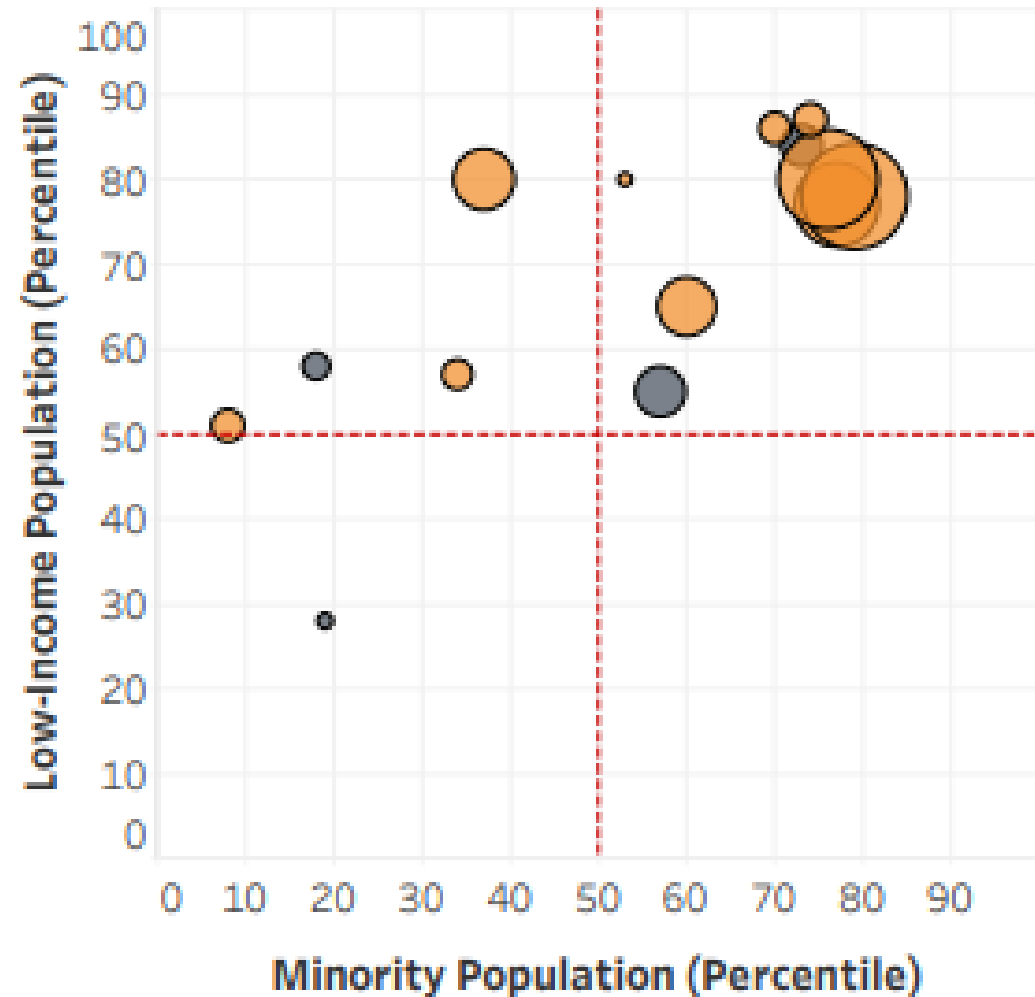
# Emissions Reduction Driven by New Technology

- Energy storage technologies and renewable energy can reduce periods of peak energy demand and lower emissions from power plants.
- There are fifteen peaking units in New Jersey that only operate when the energy demand exceeds the generation capacity of the other more cost effective and lower emitting energy generators.



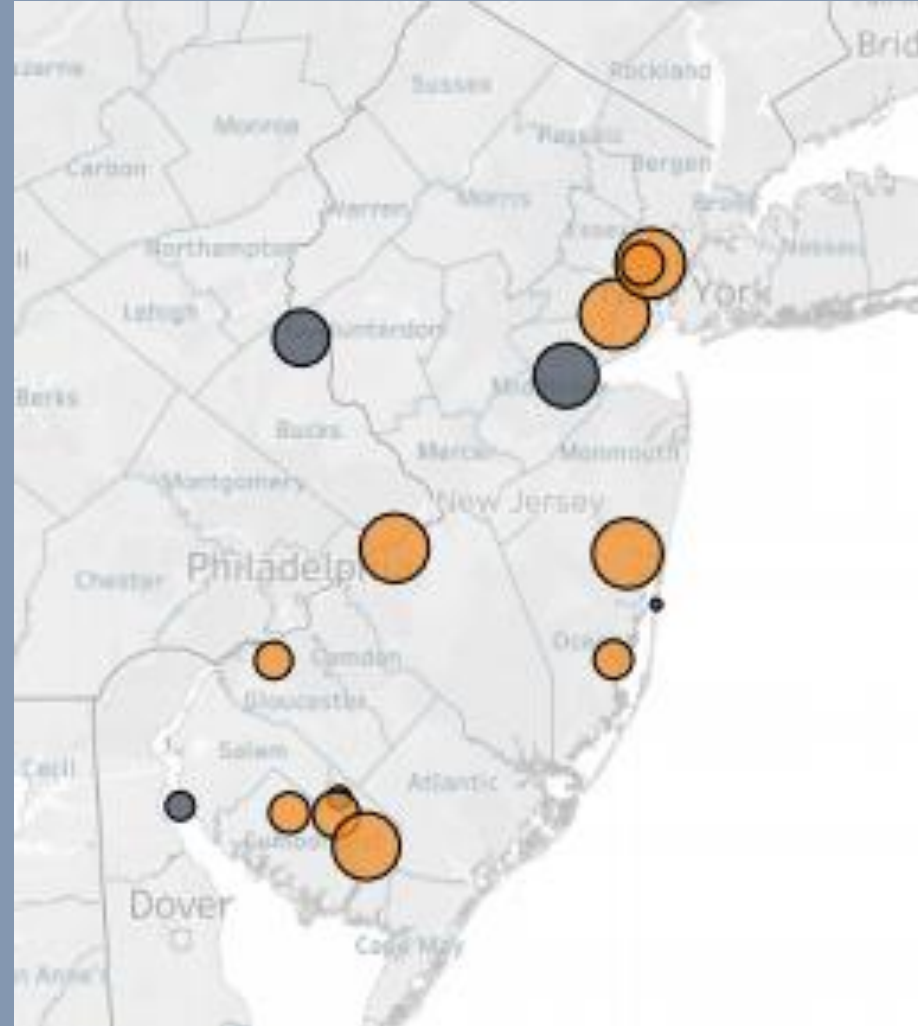
# Prevalence of Peaking Units in Low Income and Minority Communities

- Peaking units are often not in operation because due to the less efficient fuels they use (Coal & Oil)
- These fuels are often cost prohibitive at generating electricity under normal demand conditions in our competitive energy market
- Energy storage paired with solar energy is even better at reducing the need for the operation of highly polluting peaking generating units.



# Prevalence of Peaking Units in Low Income and Minority Communities

- Peakers are often located in low-income and minority communities which are also impacted by several other environmental stressors



# Deploying Energy Storage at Critical Facilities to Improve Resilience

- Energy Storage provides behind the meter resilience for critical facilities such as hospitals, municipal buildings and multi-unit dwelling



**The Problem:** Severe weather is causing power outages to become more frequent, more widespread and longer lasting, among other damages. Just one illustration from a recent news article...

### 1,700 People Showed Up at a Charging Station

*In the days after Hurricane Sandy snapped power lines and trees leaving everyone in the dark, police were scrambling to get residents the latest information. Home phones and the internet were dead, but many people still had smart phones. South Brunswick (NJ) police sent out a stream of messages that reached township residents*

**We knew people were reading our messages when 1,700 people showed up at a charging station on the first day - Police Sgt. James Ryan**



## Energy Resilience: Mobile Capabilities

- Mobile resilience units could provide solar power, energy storage, and public services



# Energy Storage & Jobs

- Job categories could include solar and battery storage installers, inspectors, engineers, technicians, fabricators, and recyclers
- New Jersey could conduct an energy storage workforce development study



