Clean Energy Future: Energy Storage



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- PSE&G's energy storage proposal would jump-start the state's efforts to achieve its energy storage targets.
- Our proposal would create about 300 jobs.
- The proposed program would spur the growth of the energy storage market in New Jersey.
- Energy storage resources can perform multiple functions from a single unit, thus increasing the versatility and responsiveness of the electric grid.
- Energy storage helps PSE&G respond to customer demand in growth areas of the state.

More energy storage means a cleaner energy future for New Jersey

Generating electricity with very low levels of carbon pollution will be a vital part of New Jersey's clean energy future, and energy storage will be an important resource for PSE&G and other utilities to use.

Energy storage can enable better integration of renewable energy onto the electric grid, provides resiliency for critical infrastructure and enables electric lines to handle greater capacity during times of peak electric use.

PSE&G is proposing to spend \$180 million over six years to build 35 megawatts of energy storage capacity, which will begin the process of helping the state meet its energy storage goals. New Jersey has set an aggressive target of 2,000 megawatts of energy storage in the state by 2030.





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PSE&G is proposing five distinct energy storage efforts

- Solar Smoothing: makes the grid more reliable and mitigates voltage fluctuations on the grid produced primarily by changes in cloud cover.
- Distribution Deferral: boosts capacity on select electric lines and defers the need for distribution system upgrades.
- Mobile Storage for Outage Management: leverages storage to reduce peak demands at substations that are under construction, resulting in more efficient construction projects.
- Microgrids for Critical Facilities: enables critical
 facilities to maintain a reliable supply of electricity
 during an unplanned outage. PSE&G currently has four
 systems in service around the state and proposes to
 create four more.
- Peak Reduction for Public Sector Facilities: Locates energy storage systems at public sector facilities that will help these customers manage costs by reducing electric use at peak times and allow PSE&G to potentially defer distribution upgrades.

Current PSE&G energy storage projects improve resiliency and reliability

PSE&G's Solar 4 All® program currently has a 3 megawatt-dc pilot program that develops projects that integrate solar with other technologies to reduce the impact solar has on the grid or integrates solar with other technologies to provide reliability and grid resiliency for critical facilities during prolonged power outages.

There are four solar storage projects in service in New Jersey as part of this pilot program: Hopewell Valley Central High School, Cooper University Hospital in Camden, the Caldwell wastewater treatment plant and the Pennington Department of Public Works building.



