

# Energy Storage

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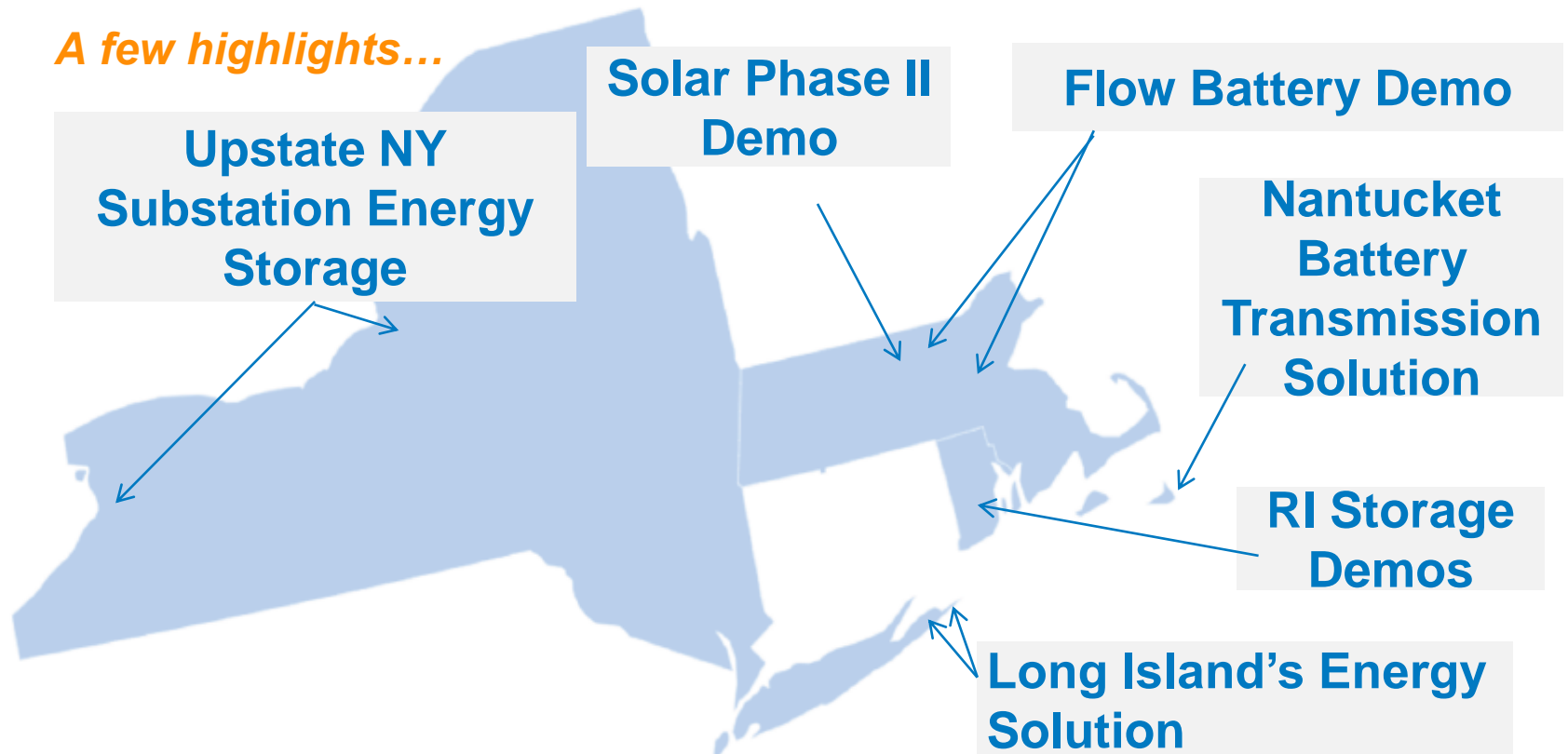
**nationalgrid**



# National Grid is an industry leader on energy storage

By the end of 2019, we will **own and operate 25 MW / 146 MWh** of energy storage.

*A few highlights...*



We are also interconnecting non-utility storage, with 17 MW of storage paired with solar (and 1 GW in the queue).

# Potential Benefits of Energy Storage

Energy storage can help us achieve a **more efficient** and **decarbonized** electricity system, via:

**Avoided generation capacity (peak shaving)**

**Lower electricity supply costs (energy arbitrage)**

**More efficient ancillary services (fast response)**

**Avoided/deferred traditional “wires” investments**

**Firming variable renewables**

**Enhanced reliability**

# Energy Storage Policies



Any **energy storage targets** should be scaled to support policy goals and valued outcomes.



**'Value stacking'** between network and wholesale market use cases supports more storage and increased societal value.



**Aligning incentives** for energy storage with value creation maximizes the benefits from energy storage.



Retail **rate design** should create opportunity for private customer savings for reducing total electricity system costs.

# Utility Role in Energy Storage

**Utility ownership and integration** of energy storage as a grid asset

**Incentives** to promote desired decarbonization and electricity system efficiency

- Non-wires alternatives shared savings
- Performance incentive mechanisms (PIMs) – e.g., peak demand reduction
- TOTEX-style cost efficiency incentives



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