



Daily energy storage adjustment

What is a day-ahead scheduling model?

The day-ahead scheduling model incorporates comprehensive operational constraints to ensure physical feasibility and system reliability. These constraints govern the balanced operation of conventional generation units, renewable energy sources, energy storage systems, and demand response resources while maintaining network security.

What is day-ahead and intra-day rolling scheduling?

The framework combines day-ahead and intra-day rolling scheduling to balance cost efficiency and adaptability: the day-ahead model establishes optimal baselines for conventional generators, pumped hydro storage, and PDR to minimize operational costs, while the intra-day model adjusts to real-time fluctuations using electrochemical storage and IDR.

What does the 2024 energy storage order entail?

The 2024 Energy Storage Order directed NYSERDA to describe the qualitative factors it will evaluate in scoring and ranking bids. 28 NYSERDA shall include three broad categories of 1) project maturity and viability; 2) electricity system value; and 3) societal and economic benefits.

What is the 2022 energy storage plan?

The plan begins with background on the 2019 Climate Leadership and Community Protection Act (the "Climate Act") and the 2022 Energy Storage Roadmap (the "Roadmap") as updated in March 2024. The plan then outlines the structure of the program, with a focus on the Index Storage Credit (ISC) incentive mechanism.

Can a multi-time scale scheduling framework address uncertainty in energy generation forecasts?

In summary, integrating dual energy storage technologies with a multi-time scale scheduling framework can more effectively address the uncertainty in new energy generation forecasts compared to a single pumped storage scheme.

What is New York's energy storage plan?

Accordingly, the 2024 Energy Storage Order directed NYSERDA "to include in each bulk procurement a target of 20 percent of long-duration, 8-hour energy storage resources, to move New York towards installing the necessary amount of LDES by the mid-2030s." 13



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