



Energy storage ppo

Is PPO a good energy management agent?

Among the tested agents, the PPO agent is, by far, the best performer being able to achieve savings in electricity bill of 38.3% when compared with the case when there is no energy management and 35.3% when compared with the optimization-based agent.

Why is energy storage important?

Energy storage is essential for creating a cleaner, more efficient, and resilient electric grid. Additionally, these projects will provide meaningful benefits to Disadvantaged Communities and Low-to-Moderate Income New Yorkers. Energy storage is essential to a resilient grid and clean energy system.

What is a PPO policy?

PPO belongs to the family of Trust Region methods and constitutes an improvement relative to Trust Region Policy Optimization. There are two PPO variants which introduce incentives so that the new policy remain close to the old policy: PPO-Penalty and PPO-Clip.

How will energy storage impact New York?

Storage will increase the resilience and efficiency of New York's grid, which will be 100% carbon-free electricity by 2040. Additionally, energy storage can stabilize supply during peak electric usage and help keep critical systems online during an outage. All of this while creating an industry that could employ at least 30,000 New Yorkers by 2030.

What are New York state's energy storage goals?

Learn more about installed energy storage projects and New York State's progress toward its energy storage goals. New York's Climate Leadership and Community Protection Act (Climate Act) codified a goal of 1,500 MW of energy storage by 2025 and 3,000 MW by 2030.

Should energy storage be included in the electric grid?

Integrating storage in the electric grid, especially in areas with high energy demand, will allow clean energy to be available when and where it is most needed. As New York continues to invest and build a cleaner grid, energy storage will allow us to use existing resources more efficiently and phase out the dirtiest power plants.



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