



Governor Hochul announced a new framework for the State to achieve a nation-leading six gigawatts of energy storage by 2030, which represents at least 20 percent of the peak electricity load of New York State.



To assure electric system reliability, long-duration energy storage is vital. A NYISO study of New York State's "70 by 30" target found that that transmission constraints would lead to curtailment of 11% of the total potential renewable energy production across New York, with curtailment levels in some regions as high as 63%.



KF: Just speaking in terms of energy storage alone, New York State has one of the world's most ambitious goals, aiming for 6 Gigawatts of installed energy storage by 2030 to achieve 100% zero emissions electricity by 2040.



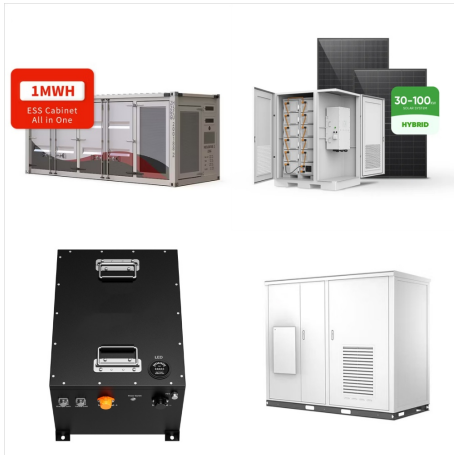
It has become increasingly clear that energy storage will be essential to New York State's clean energy transition and that it is critical for integrating renewable energy, reducing peak load, and increasing grid resiliency. In recent years, battery prices have dropped significantly, research and development of alternative energy storage



The first battery energy storage system (BESS) in New York City using Tesla Megapacks, a 12MWh system in the Bronx by NineDot, has been inaugurated. Community-scale renewable energy project developer NineDot Energy unveiled the 3.08MW/12.32MWh BESS unit yesterday (9 August). Alongside the four-hour battery, the project ??? called Gunther



The Battery Energy Storage System Guidebook contains information, tools, and step-by-step instructions to support local governments managing battery energy storage system development in their communities. In 2020, the Uniform Code was amended to include the latest safety considerations for energy storage systems. 2020 New York State Uniform



Stonewall Solar: Nexamp will build a 145-megawatt solar facility co-located with 20 megawatts of energy storage in the Town of Meredith, Delaware County. Western New York; Somerset Solar: AES will build a 125-megawatt solar facility in the Town of Somerset, Niagara County. Alliance for Clean Energy New York Executive Director Anne Reynolds



The Challenge is supported by NENY, along with NYSERDA, and is conducted in collaboration with New York Battery and Energy Storage Technology Consortium . Who Should Apply . We're looking for energy storage projects currently in development in New York State, post-site control but pre-financial close. In particular:



The Empire State is seeking 3 GW of "bulk storage," 1.5 GW of retail storage, and 200 MW of residential storage. The state's modeling predicts that it will cost \$0.46 per month per electricity bill to incentivize developers to ???



Kyle Rabin of the Alliance for Clean Energy New York said, "New York's nascent energy storage industry must play a vital role in New York's clean energy transition, and we welcome this proposal for supporting industry growth. We look forward to working with New York's decision-makers as they refine and finalize the Energy Storage 2.0 Roadmap



In addition, the New York Power Grid Study, released in January 2021, identified the need for more than 15 GW of energy storage by 2040, with 7,300 MW located in New York City and Long Island, in



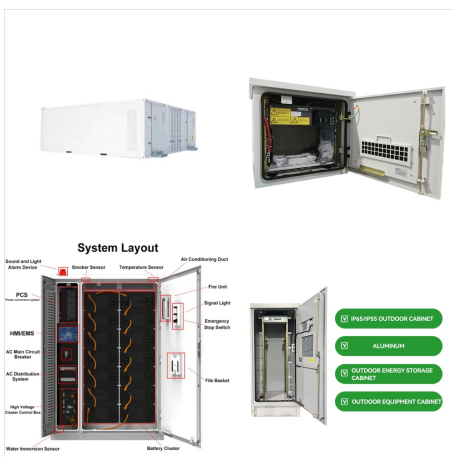
? The PSC earlier directed the particular utility to procure and deploy 300 MW of qualified energy storage systems in New York City by 2023. "Bulk storage will let us bring large amounts of renewable energy to our customers without compromising our industry-leading reliability, even as fossil fuel generators in New York City are shuttered into



New York Gov. Kathy Hochul, D, has issued nearly \$15 million in funding to four long-duration energy storage demonstration projects, the New York State Energy Research and Development Authority



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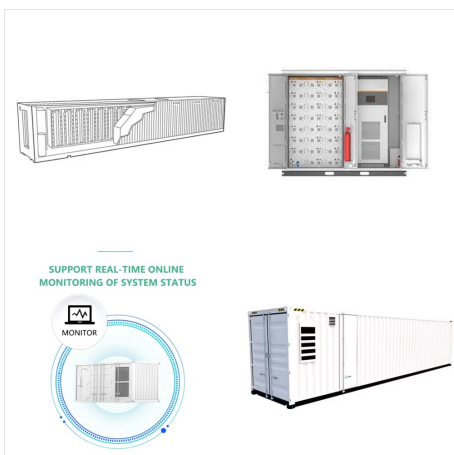
A NineDot community-scale BESS project in the Bronx borough of New York City. Image: Ninedot Energy. A 110MW/440MWh battery storage project in New York has been given the green light by regulators, ahead of the launch of tenders which could create a significant market opportunity in the state.



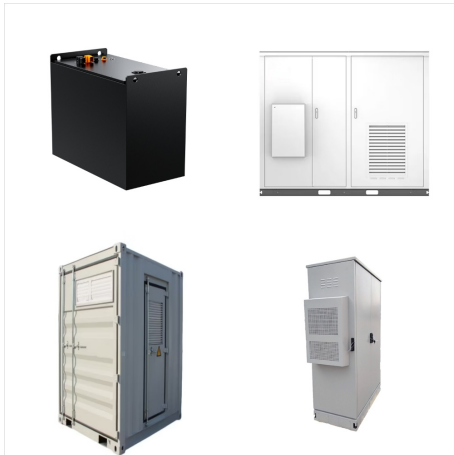
The benefits of energy storage in New York couldn't be more unique and crucial. Currently, the state has 4.5 GW of fossil-fired peaker plants, a majority of which are located in New York City, Long Island, and the Lower Hudson Valley. These peaker plants provide power during high electricity demand periods and are also used for reliability



New York State Energy Research and Development Authority President and CEO Doreen M. Harris said, "The NENY Storage Engine developed at Binghamton University in the Southern Tier is helping ensure New York's energy storage industry is cultivated through a responsible process that will support a robust local supply chain and skilled workforce



The roadmap is a comprehensive set of recommendations to expand New York's energy storage programs to cost-effectively unlock the rapid growth of renewable energy across the state and bolster grid reliability and customer resilience. The roadmap will support a buildout of storage deployments estimated to reduce projected future statewide



Governor Kathy Hochul today announced that the New York State Public Service Commission approved a new framework for the State to achieve a nation-leading six gigawatts of energy storage by 2030, which represents at ???



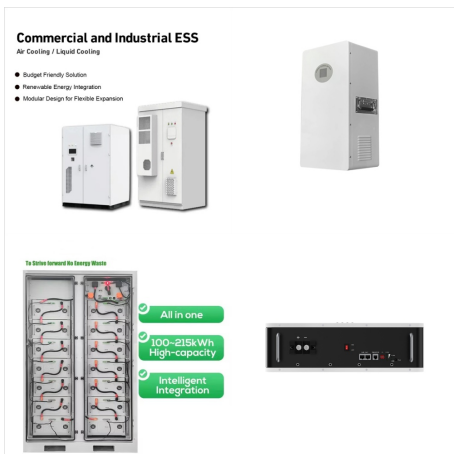
Development Authority (NYSERDA) issued "New York's 6 GW Energy Storage Roadmap: Policy Options for Continued Growth in Energy Storage" at the end of 2022. The Storage Roadmap describes the state's procurement plan for 6 GW of battery storage resources with durations of less than 8 hours by 2030. New York's current Storage Roadmap



Within the area of climate and furthering the clean energy economy, Governor Hochul set out actions to be taken to directly advance energy storage technologies in New York: creating a new battery research and manufacturing centre and doubling the state's energy storage deployment target from 3GW by 2030 to 6GW by that year.



From new product development and innovation to commercialization, manufacturing and market deployment for energy storage, New York has developed a robust ecosystem to grow this transformative industry." Kyle Rabin of the Alliance for Clean Energy New York said, "New York's nascent energy storage industry must play a vital role in New York's



Energy Storage Roadmap. In June 2019, Governor Andrew M. Cuomo announced the state's plan to jump-start the development of energy storage in New York, calling for the deployment of 1.5 gigawatts (GW) by 2025. The New York State Public Service Commission (PSC) subsequently enhanced that goal by establishing a target of 3.0 GW by 2030.



New York's climate goals are some of the most ambitious in the country, with the State's Climate Leadership and Community Protection Act mandating 70 percent renewable energy on the grid by 2030 and 100 percent carbon-free electricity by 2040. The challenge for New York is to determine how to meet these goals quickly and cost-effectively, [???



New York is targeting the deployment of 6GW of energy storage on its networks by 2030 as it pursues the aggressive energy transition path laid out in the state's Climate Leadership and Community Protection Act policy. By 2030, 70% of electricity in New York needs to come from renewable sources.



With a history of developing, installing, and operating energy storage and solar-plus-storage systems, Enel X has built one of the largest distributed energy storage portfolios in New York City and has partnered with an array of customers to bring energy storage projects to life. As New York incentive programs for energy storage have changed



Storage Order has effectively nurtured and expanded New York's energy storage market. Total deployed and awarded/contracted systems at the end of 2021 include projects equaling 1,230 MW in capacity, or about 82 percent of the 2025 target of 1,500 MW. The breakdown of these figures is described in Table 1. Table 1: Total Energy Storage in New York



The Roadmap analysis recognizes the critical role for energy storage in meeting New York's climate goals and enabling an emissions-free electric grid. It proposes to invest an estimated \$1 billion - \$1.7 billion through 2030 to support new programs and funding to deploy large-scale,



"With support from NYCEDC-IDA, Con Edison, NYPA and our partners in the Astoria community, 174 Power Global is committed to investing and starting construction of one of New York City's largest energy storage systems, repurposing what today is a brownfield site that once housed the Poletti plant, and ushering in a new era in New York's energy



The New York State Energy Research and Development Agency (NYSERDA) will likely be responsible for administering the Index Storage Credit and the auctions for procurement. From what we have heard, the scheme will be designed to guarantee revenues, but also keep some of the risk on developers so that the state isn't overpaying.