

Why is energy storage important in New York?

Storage will increase the resilience and efficiency of New York's grid, which will be powered by 70% renewable energy by 2030, and 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.

Are energy storage systems regulated in New York?

Energy storage technologies and systems are regulated at the federal, state, and local levels, and must undergo rigorous safety testing to be authorized for installation in New York. You can download NYSERDA's New York State [PDF] and New York City [PDF] factsheets to learn more about energy storage regulations and safety in your community.

What is New York's energy storage roadmap?

The Roadmap proposed 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.

How much energy storage does New York have in 2024?

As of April 1, 2024, New York has awarded about \$200 million to support approximately 396 megawatts of operating energy storage in the state. There are more than 581 megawatts of additional energy storage under contract with the State and moving towards commercial operation.

How can we store energy?

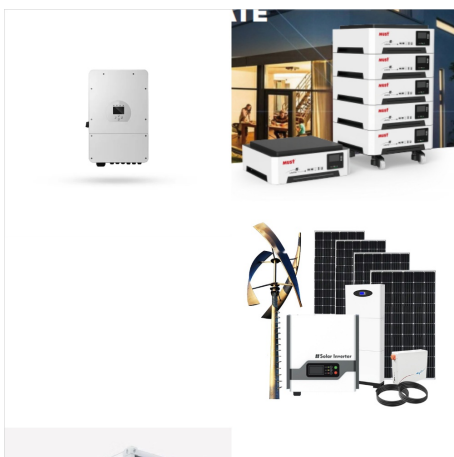
The work is still at the crowdfunding stage. Just as you can store potential energy by lifting a block in the air, you can store it thermally, by heating things up. Companies are banking heat in molten salt, volcanic rocks, and other materials. Giant batteries, based on renewable chemical processes, are also workable.



New York State aims to reach 1,500 MW of energy storage by 2025 and 6,000 MW by 2030. Energy storage will help achieve the aggressive Climate Leadership and Community Protection Act goal of getting 70% of New York's electricity from renewable sources by 2030. Additionally, these projects will provide meaningful benefits to Disadvantaged



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



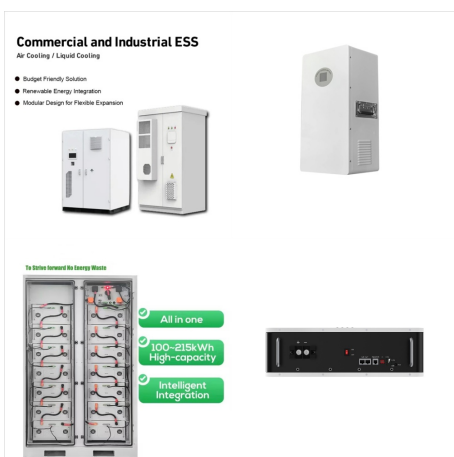
In addition, the New York Power Grid Study, released in January 2021, identified the need for more than 15 GW of energy storage by 2040, with 7,300 MW located in New York City and Long Island, in



Energy storage technologies and systems are regulated at the federal, state, and local levels, and must undergo rigorous safety testing to be authorized for installation in New York. On July 28, 2023, Governor Kathy Hochul announced the creation of a new Inter-Agency Fire Safety Working Group to ensure the safety and security of energy storage



DCAS Report. List of Figures and Tables . Figure 1: Services offered by utility-scale energy storage systems 10 Figure 2: Energy Storage Technologies and Applications 12 Figure 3: Open and Closed Loop Pumped Hydro Storage 13 Figure 4: Illustration of Compressed Air Energy Storage System 14 Figure 5: Flywheel Energy Storage Technology 15 Figure 6: ???



New York State aims to reach 1,500 MW of energy storage by 2025 and 6,000 MW by 2030. Energy storage will help achieve the aggressive Climate Leadership and Community Protection Act goal of getting 70% of New York's electricity from renewable sources by 2030.



A new roadmap outlining how New York can meet ambitious energy storage targets has been welcomed as "comprehensive and thoughtful," including proposals to incentivise deployment. The US state aims to get to 6GW of energy storage by 2030 ??? equivalent to 20% of its expected peak load ??? helping enable it to meet 70% of electricity demand



Storage Roadmap: Background ??? In 2018, New York adopted an administrative target of 3,000 megawatts (3 gigawatts/GW) of storage deployment by 2030, which was enshrined into the Climate Law (CLCPA) in 2019. ??? Programs/funding to support this target were implemented via approval of the 2018 Storage Roadmap.

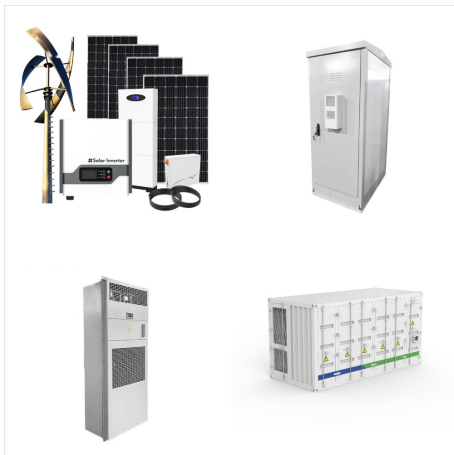


NSF Engines: Upstate New York Energy Storage Engine led by Read More. kbayait@binghamton . January 30, 2024. New Energy New York will help the U.S. meet the demand for domestic battery products by accelerating the battery development and manufacturing ecosystem in the Southern Tier and Finger Lakes regions of Upstate New York.





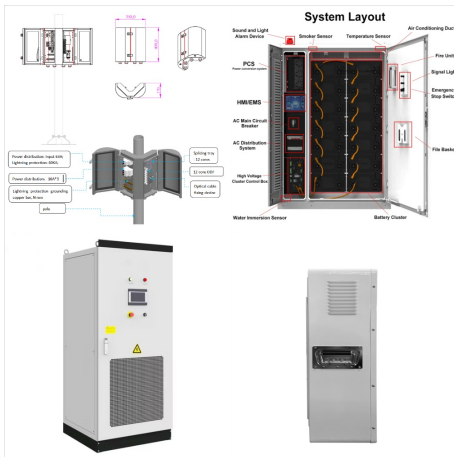
Kyle Rabin of the Alliance for Clean Energy New York said, "New York's nascent energy storage industry must play a vital role in New York's clean energy transition, and we welcome this proposal for supporting industry growth. We look forward to working with New York's decision-makers as they refine and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



Energy storage will play a crucial role in meeting our State's ambitious goals. New York's nation-leading Climate Leadership and Community Protection Act (Climate Act) calls for 70 percent of the State's electricity to come from renewable sources by ???



Acker told Energy-Storage.news that the programme is well-aligned with what the trade and technology group would like to see, applauding regulators and authorities for listening and taking input from a broad range of stakeholders. "We're really excited about how New York State is positioned right now. With the roadmap we'll be creating a very, very strong market for ???



The plan goes through New York's economy sector-by-sector, offering recommendations in each. "Energy storage" is mentioned in the plan 78 times. In the context of the electricity sector, renewable sources like solar PV and an incoming major buildout of offshore wind paired with energy storage is discussed as being key.



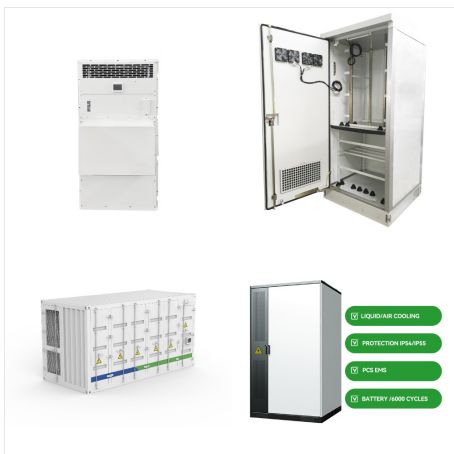
The first battery energy storage system (BESS) in New York City using Tesla Megapacks, a 12MWh system in the Bronx by NineDot, has been inaugurated. Community-scale renewable energy project developer NineDot Energy unveiled the 3.08MW/12.32MWh BESS unit yesterday (9 August). Alongside the four-hour battery,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



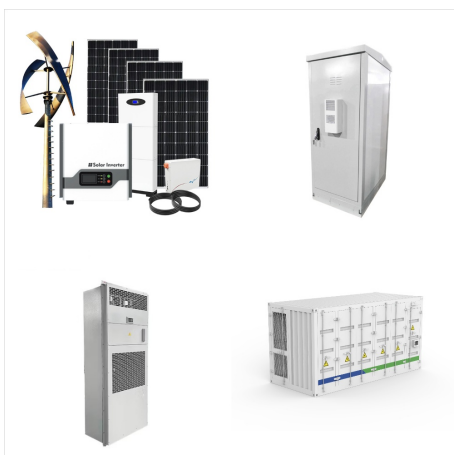
New York, New York," goes a popular song from 1978: "so good they named it twice". Energy storage industry observers may have been reminded of those words in early 2021 when New York governor Kathy Hochul doubled the state's energy storage target from 3GW to 6GW, to be achieved by 2030.



Commission a new Energy Storage Roadmap entitled, "New York's 6 GW Energy Storage Roadmap: Policy Options for Continued Growth in Energy Storage". The Roadmap provides a framework and set of proposals to achieve 6 GW of energy storage on the electric grid by 2030. The Roadmap analysis recognizes the critical role for energy storage in meeting



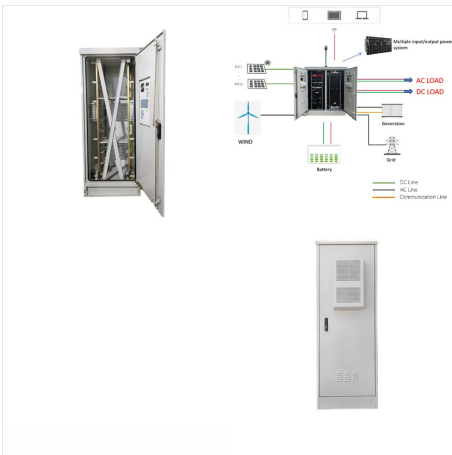
DER Roadmap proceeding, and in the recently released document: The State of Storage: Energy Storage Resources in New York's Wholesale Electricity Markets. In April 2018, FERC is hosting a technical conference to discuss the role they can play in allowing dual participation of energy storage systems in distribution and wholesale markets.



Form Energy announced that it has been awarded a \$12 million grant from the New York State Energy Research and Development Authority (NYSERDA) to accelerate the deployment of a 10 megawatt / 1000 megawatt-hour iron-air battery system in New York State. Expected to come online by 2026, the project will demonstrate the value of multi-day energy ???



For instance, there is a coalition called New Energy New York, led by Binghamton University, that is building a world class hub for energy storage innovation and manufacturing in upstate New York. In terms of expertise, we have folks like Professor Stanley Whittingham at Binghamton University who won the 2019 Nobel Prize for his work in lithium



By pairing solar projects with energy storage, you can store electricity produced from your solar panels for future use. In recent years, residential energy storage systems have declined in cost, making it more affordable for you to combine these two technologies. New York State aims to reach 1,500 MW of energy storage by 2025 and 6,000 MW

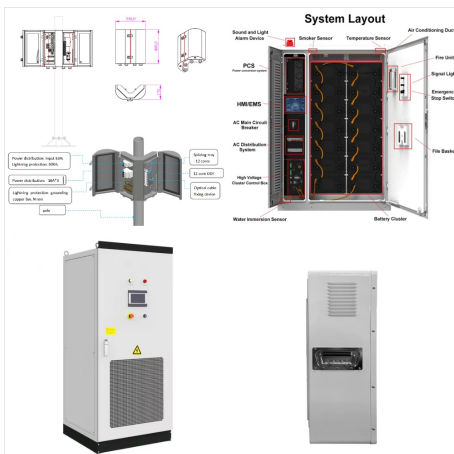


As one of the leading markets for energy storage development in the U.S., New York State has developed the New York StateEnergy Storage Study that documents a procedure for planning and evaluating energy storage system (ESS) applications in the electric utility industry. The described procedures and use cases

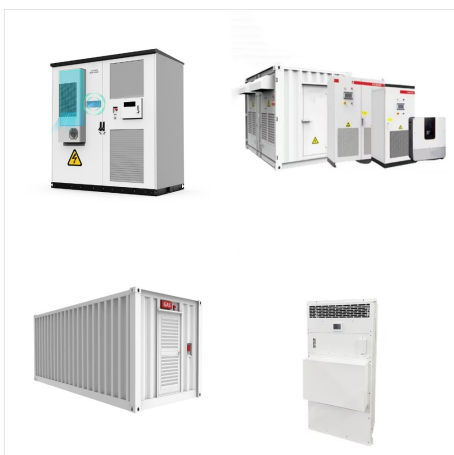




Upstate New York Energy Storage Engine (New York), led by Binghamton University, aims to establish a tech-based, industry-driven hub for new battery componentry, safety testing and certification, pilot manufacturing, applications integration, workforce development and energy storage, including through material sourcing and recovery.



US\$16.6 million funding has been committed for five long-duration energy storage (LDES) projects in New York by the US state's government. Governor Kathy Hochul announced the awards yesterday at an energy tech conference in New York City. At the same time, Hochul revealed that a further US\$17 million will be available through a competitive



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.