

# GOVERNMENT WORK FIRST MENTIONS NEW ENERGY STORAGE



What does the Energy Department do? The Energy Department is working to develop new storage technologies to tackle this challenge -- from supporting research on battery storage at the National Labs, to making investments that take startup concepts to grid-scale solutions. Learn about the Energy Department's innovative research and development in different energy storage options.



What does OE's new RD&D report mean for energy storage? New Report Showcases Innovation to Advance Long Duration Energy Storage (LDES): OE today released its new report ???Achieving the Promise of Low Cost LDES.??? This report is one example of OE???s pioneering RD&D work to advance the next generation of energy storage technologies.



What is the future of energy storage? ???The Future of Energy Storage,??? a new multidisciplinary report from the MIT Energy Initiative (MITEI), urges government investment in sophisticated analytical tools for planning, operation, and regulation of electricity systems in order to deploy and use storage efficiently.



Why is energy storage important? As the report details, energy storage is a key component in making renewable energy sources, like wind and solar, financially and logistically viable at the scales needed to decarbonize our power grid and combat climate change.



Should the government focus on alternative electrochemical storage technologies? The report recommends that the government focus R&D efforts on other storage technologies, which will require further development to be available by 2050 or sooner ??? among them, projects to advance alternative electrochemical storage technologies that rely on earth-abundant materials.



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When is long-term energy storage important? ??? This is when long-term energy storage becomes crucial. ??? Long duration energy storage (LDES) generally refers to any form of technology that can store energy for multiple hours, days, even weeks or months, and then provide that energy when and if needed.



The NDRC said new energy storage that uses electrochemical means is expected to see further technological advances, with its system cost to be further lowered by more than 30 percent in 2025 compared to the level at the end of 2020. "Energy storage facilities are vital for promoting green energy transition with substantial potential, as the



While pumped-hydro storage is currently the mainstream technology, it can't fully meet China's growing demand for energy storage. New energy storage, or energy storage using new technologies, such as lithium-ion batteries, liquid flow batteries, compressed air and mechanical energy, will become an important foundation for building a new power



Development of New Energy Storage during the 14th Five-Year Plan Period, emphasizing the fundamental role of new energy storage technologies in a new power system. The Plan states that these technologies are key to China's carbon goals and will prove a catalyst for new business models in the domestic energy sector. They are also



A leaked draft version of RePower EU, the policy strategy designed to liberate the European Union from ties to Russian fossil fuel imports, includes no mention of energy storage. The draft, seen by Energy-Storage.news, is by no means a final version of the document but is thought to be intended for publication on 18 May.



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£32.9 million government funding awarded to projects across the UK to develop new energy storage technologies, such as thermal batteries and liquid flow batteries work in Devon and the



The Ministry of Power on 10 March 2022 issued "Guidelines for Procurement and Utilization of Battery Energy Storage Systems as part of Generation, Transmission, and Distribution assets, along with Ancillary Services". These guidelines specify that the location for Battery Energy Storage Systems (BESS) can be determined by either the entity procuring ???



Australia's new Prime Minister Anthony Albanese at Sapphire Wind Farm, New South Wales. Image: Anthony Albanese's office via Twitter. An energy storage target policy could be an effective way for Australia's new government to follow through on decarbonisation promises while insulating consumers from electricity price shocks.



MW / 192.5MWh Hornsdale Power Reserve BESS in South Australia is being retrofitted with advanced inverters. Image: Neoen. The Australian Renewable Energy Agency (ARENA) is opening a competitive funding round to provide up to AU\$100 million (US\$72.16 million) in support for large-scale battery storage projects.



A total of about US\$7 billion support for domestic electric vehicle (EV) and stationary energy storage battery value chains will be paid out through the law. Energy-Storage.news" publisher Solar Media will host the 5th Energy Storage Summit USA, 28-29 March 2023 in Austin, Texas. Featuring a packed programme of panels, presentations and



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The U.S. Department of Energy's (DOE) Office of Electricity (OE) today announced a new \$1M storage technical assistance voucher program. Two OE-funded vouchers are intended to spur innovations in Long Duration Energy Storage (LDES) technologies among developers, small businesses, research institutions, and communities.



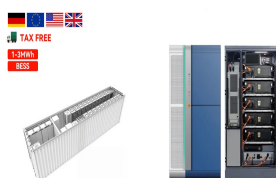
Seeking to modernise the UK's energy system and maximise the potential of renewables, the British government has awarded ?30 million to three pioneering companies to develop new energy storage



A key component of that is the development, deployment, and utilization of bi-directional electric energy storage. To that end, OE today announced several exciting developments including new funding opportunities for energy storage innovations and the upcoming dedication of a game-changing new energy storage research and testing facility.



The company focuses on stationary Energy Storage across all applications from Residential, Self - Consumption and Microgrid through to large scale stationary storage. We are Europe's first conference dedicated solely to energy storage since 2010. All of our Forum's culminate with the unique Building the Action Plan feature.



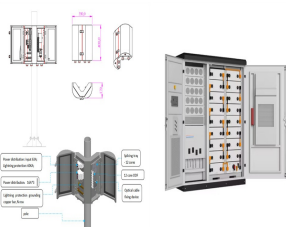
Energy-Storage.news" publisher Solar Media will host the 5th Energy Storage Summit USA, 28-29 March 2023 in Austin, Texas. Featuring a packed programme of panels, presentations and fireside chats from industry leaders focusing on accelerating the market for energy storage across the country. For more information, go to the website.



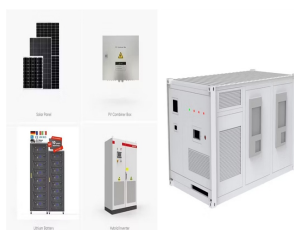
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In the past few decades, electricity production depended on fossil fuels due to their reliability and efficiency [1]. Fossil fuels have many effects on the environment and directly affect the economy as their prices increase continuously due to their consumption which is assumed to double in 2050 and three times by 2100 [6] g. 1 shows the current global ???



As America moves closer to a clean energy future, energy from intermittent sources like wind and solar must be stored for use when the wind isn't blowing and the sun isn't shining. The Energy Department is working to develop new storage technologies to tackle this challenge -- from supporting research on battery storage at the National Labs, to making investments that take ???



In the "Key Work Arrangements for Reform in 2020" and the "Opinions of State Grid Co., Ltd. on Comprehensively Deepening Reform and Striving for Breakthroughs," the power grid expressed its intention to implement a new business plan for energy storage and cultivate new momentum for growth based on strategic emerging industries such as



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 funding is part of a ?68 million first-of-its-kind programme to increase the options for long-duration storage in the UK by scaling new LDES prototypes. Pivot Power will also work alongside e-Zinc, with support from Frontier Economics, to store electricity in zinc, a low-cost, sustainable method of energy storage. Government funding



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## NEW ENERGY STORAGE



These projects will benefit from a share of over \$6.7 million to develop new energy storage technologies that can utilise stored energy as heat, electricity or as a low-carbon energy carrier like



On March 5th, Premier Li Qiang delivered the Government Work Report during the National People's Congress. Li Qiang pointed out that over the past year, efforts have been made to stabilize and optimize the scale and structure of foreign trade, resulting in a nearly 30% increase in exports of "new three" items including electric vehicles, lithium batteries, and photovoltaic ???



NSW has opened the largest energy storage tender in NSW history, seeking new long-duration storage projects to boost electricity reliability and keep the lights on in NSW. They will play a significant role in the NSW Government's transition to renewable energy, which will deliver reliable and affordable power to households and businesses



The UK is a step closer to energy independence as the government launches a new scheme to help build energy storage infrastructure. This could see the first significant long duration energy



The base ITC rate for energy storage projects is 6% and the bonus rate is 30%. The bonus rate is available if the project is under 1MW of energy storage capacity or if it meets the new prevailing wage and apprenticeship requirements (discussed below). New Section 48E Applies ITC to Energy Storage Technology Through at Least 2033