

How much energy storage does Canada need in 2022?

Coming soon: the 250MW/1,000MWh Oneida project in Ontario. Image: NRStor. Energy Storage Canada's 2022 report, *Energy Storage: A Key Net Zero Pathway in Canada* indicates Canada will need a minimum of 8 to 12GW of energy storage to ensure Canada achieves its 2035 goals.

Which energy storage projects are advancing in Canada?

In addition to BESS projects, there are also many Long Duration Energy Storage (LDES) technology-based projects advancing in Canada such as compressed air, pumped hydro and other non-lithium ion battery chemistries. Energy Storage Canada is the only national voice for energy storage in Canada today.

How many MW of energy storage projects are there in Canada?

"At Energy Storage Canada we're excited to see the IESO's announcement of more than 700 MW of energy storage projects as the next step in Canada's largest energy storage procurement to date," said Justin Rangooni, Executive Director, Energy Storage Canada.

What is Canada doing to save money on energy bills?

Procuring 4,000 MW of new electricity generation and storage resources, which includes the largest planned procurement of clean energy storage in Canada's history. Rolling out \$342 million in new and enhanced energy efficiency programs while helping families and businesses reduce their electricity use so they can save money on their energy bills.

Could 1000 MW of energy storage Save Ontario electricity?

A 2020 report commissioned by Energy Storage Canada, *Unlocking Potential: An Economic Valuation of Energy Storage in Ontario*, found that 1000 MW of energy storage in Ontario could provide as much as \$2.7 billion in savings for Ontario electricity customers.

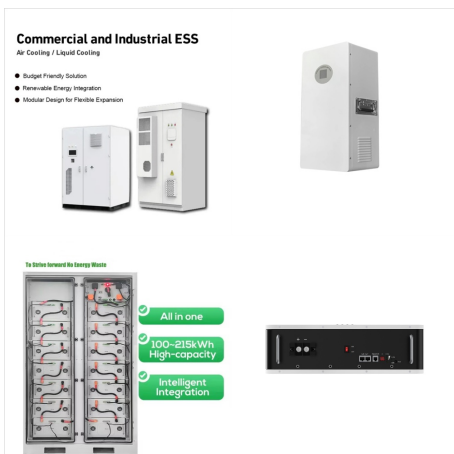
Why is energy storage important in Canada?

Moreover, the report found that while the supply structure of each province differs, energy storage can play a critical role in all Canadian provinces, meeting demand needs and optimizing the effectiveness of existing generation transmission, and distribution assets.

# ENERGY STORAGE FUNDING CANADA



Canada will introduce tax credit incentives and invest in developing and manufacturing solar PV, energy storage and other clean energy tech. Canada's budget includes energy storage tax credit in wave of cleantech investment. By Will Norman. March 30, 2023. US & Canada, Americas.



Background. Carbon capture, utilization, and storage (CCUS) provides an important pathway to emissions reductions for energy and industrial activities under conditions where neither electrification nor low carbon fuels are able to provide technically or economically feasible low-carbon solutions. As part of Budget 2021, the government is investing \$319 million over ???



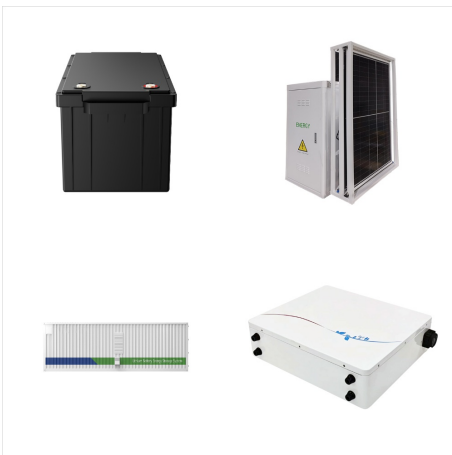
The SREP aims to reduce greenhouse gas emissions and help Canada's transition to an electrified economy by funding renewable energy and electrical grid modernization projects. Ontario. This spring, the 250MW Oneida Energy Storage Project, the largest battery storage project in the country, moved toward commercial operation as the project



A-CAES solutions provider Hydrostor told Energy-Storage.news yesterday that a planned 300-500MW system is being supported with the funds through the government's natural resources department and Sustainable Development Technology Canada, a government-created clean energy funding foundation.



IESO is part-funding the project through its Grid Innovation Fund to see if the model or its learnings can be replicated and rolled out elsewhere. executive director of Energy Storage Canada, another trade association, blogged for this site that energy storage needs to be at the heart of policy and regulation decarbonisation and



Canada still needs much more storage for net zero to succeed. Energy Storage Canada's 2022 report, Energy Storage: A Key Net Zero Pathway in Canada indicates Canada will need a minimum of 8 to 12GW of energy storage to ensure Canada achieves its 2035 goals. Moreover, while each province's supply structure differs, potential capacity for energy storage ???

# ENERGY STORAGE FUNDING CANADA



Office: Office of Clean Energy Demonstrations  
Solicitation Number: DE-FOA-0003399 Access the  
Solicitation: OCED eXCHANGE FOA Amount: up to  
\$100 million Background Information. On  
September 5, 2024, the U.S. Department of  
Energy's (DOE) Office of Clean Energy  
Demonstrations (OCED) opened applications for up  
to \$100 million in federal funding ???



The Oneida Energy storage project is expected to  
reduce emissions by between 2.2 to 4.1 million  
tonnes, the equivalent to taking up to 40,000 cars  
off the road. Ontario's electricity grid is more than 90  
per cent emissions free.



While listed on American markets, the fund is still a  
good way to invest in clean energy ETFs in Canada.  
The fund holds a total of 101 assets, with the top 10  
holdings as of May 2024 being: First Solar Inc:  
10.84%; Enphase Energy Inc: 7.76%; Examples  
include alternative energy ETFs, energy storage  
ETFs, or solar energy ETFs. If you think



# ENERGY STORAGE FUNDING CANADA



Vancouver, BC - Clean energy startup Moment Energy has raised a \$3.5 million seed round of funding. The company creates sustainable battery energy storage systems by repurposing retired electric vehicle batteries. The investment round was led by Version One Ventures with participation from Fika Ventures, Garage Capital and MCJ Collective.



Volta Energy Technologies Closes Energy Storage Fund With Over \$200MM June 21, 2021; Energy Storage VC Volta Energy Technologies Invests in Solid Power Alongside BMW and Ford to Commercialize All Solid-State Batteries for Future EVs May 3, 2021; Volta Energy Technologies Kicks Off Energy Storage Fund With Over \$70MM From Investors February 18, ???



Deadline: 31-Jan-23 Applications are now open for the Bell Canada's Alternative Energy Storage Challenge. Bell is committed to making its operations carbon neutral by 2025 and to achieve a science-based emissions reduction (SBT) target by 2030 in accordance with the 1.5°C warming scenario. Bell seeks adapted technological solutions in order to achieve its ambitious targets,

# ENERGY STORAGE FUNDING CANADA



The US Department of Energy (DOE) will commit US\$30 million in new awards and funding opportunities for energy storage solutions, as the US looks to dramatically reduce the cost of energy storage systems. The funding, ???



FOR IMMEDIATE RELEASE. 16 May 2023 . Today the Independent Electricity System Operator (IESO) announced seven new energy storage projects in Ontario for a total of 739 MW of capacity.. The announcement is part of the province's ongoing procurement for 2500 MW of energy storage to support the decarbonization and electrification of Ontario's grid, which was ???



Toronto, April 15, 2021 (GLOBE NEWSWIRE) -- Hydrostor, a long duration energy storage solution provider, announced today it has received funding from Natural Resources Canada's Energy Innovation Program and Sustainable Development Technology Canada to pursue the development of a 300-500 MW Advanced Compressed Air Energy Storage (A-CAES) facility in ???

# ENERGY STORAGE FUNDING CANADA



CICE provides non-dilutive funding to B.C.-based companies and entrepreneurs ??? public or private, big or small ??? working on game-changing technologies and solutions that have high climate impact and global scaling ???



While Suncor's project was the only energy storage-focused investment in this latest round of funding from ERA, a previous round saw the public corporation commit to supporting the development of Chappice Lake, a CA\$40 million solar-plus-storage project featuring a DC-coupled vanadium flow battery.



The US Department of Energy (DOE) will commit US\$30 million in new awards and funding opportunities for energy storage solutions, as the US looks to dramatically reduce the cost of energy storage systems. The funding, managed by the DOE's Office of Electricity (OE), will be split into two equal funds of US\$15 million each.



The Burchill Wind Energy Project is among the largest battery energy storage projects in Atlantic Canada, and it is contributing to a net-zero ready electricity system by 2035. The Government of Canada is pleased to support this important initiative in Saint John, co-led by the Neqotkuk First Nation." Funding comes from Natural Resources



CICE provides non-dilutive funding to B.C.-based companies and entrepreneurs ??? public or private, big or small ??? working on game-changing technologies and solutions that have high climate impact and global scaling potential. Powering the Future with Energy Storage identifies how energy storage advancements can accelerate renewable



Ontario's electricity system moves forward with largest energy storage procurement ever in Canada. Powering Grid Transformation with Storage. Energy storage is changing the way electricity grids operate. Under traditional electricity systems, energy must be used as it is made, requiring generators to manage their output in real-time to match



# ENERGY STORAGE FUNDING CANADA



The federal government says it will provide \$50 million to fund the construction of Canada's "largest battery storage" facility as it looks to boost the country's sources of clean electricity.



The Department of Energy's (DOE) Office of Electricity (OE) has announced several developments including funding opportunities for energy storage innovations and an upcoming energy storage research and testing facility at its 4th Annual Energy Storage Grand Challenge Summit. OE partnered with energy storage industry members, national



While more than 90% of proposed battery storage additions at grid-scale in the country will be in Ontario and Alberta, according to Patrick Bateman, and both provinces are current leaders in storage adoption in Canada, at present Ontario has around 225MW of behind-the-meter large-scale commercial and industrial (C& I) batteries and around the

# ENERGY STORAGE FUNDING CANADA



The Honourable Jonathan Wilkinson, Minister of Energy and Natural Resources announced up to \$500 million in funding for the Smart Renewables and Electrification Pathways program (SREPs) Utility Support Stream. SREPs was recapitalized with nearly \$2.9 billion in Budget 2023 and supports clean electricity infrastructure ??? such as renewable energy ???



Toronto, April 15, 2021 (GLOBE NEWSWIRE) -- Hydrostor, a long duration energy storage solution provider, announced today it has received funding from Natural Resources Canada's Energy Innovation



The battery energy storage pillar of the National Research Council of Canada's (NRC's) Advanced Clean Energy program works with collaborators to develop next-generation energy storage materials, devices and applications. By deploying our expertise in critical minerals, battery materials, battery cell prototyping and battery recycling, we enable