

## European Solar and Energy Storage Solutions

# Timor-Leste oneida energy storage



## Overview

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Who owns the Oneida energy storage project?

Credit: Northland Power. Canadian energy company Northland Power has finalised an energy storage facility agreement with Canada's Independent Electricity System Operator (IESO) for the Oneida energy storage project. The Oneida project is claimed to be the country's largest battery energy storage project and among the largest in the world.

What's going on with IESO's Oneida energy storage project?

As well as there being more to come in the next rounds of the procurement, the IESO recently awarded key contracts for the 250MW/1,000MWh Oneida energy storage project which is being developed by a consortium including developer NRSTor, independent power producer (IPP) Northland Power and selected technology provider Tesla.

What is Ontario's largest battery energy storage project?

The Oneida project is claimed to be the country's largest battery energy storage project and among the largest in the world. It will increase the amount of energy storage resources on Ontario's clean electricity grid from around 225MW to nearly 475MW once it is completed in 2025.

How much funding does Canada provide for the Oneida energy project?

The federal government is today providing a further \$50 million in funding; the Canada Infrastructure Bank has played a key role supporting project development and is collaborating with the Oneida Energy storage project on an investment agreement.

Why is energy storage important in Ontario?

Ontario's electricity grid is more than 90 per cent emissions-free. Energy storage will allow the storage of baseload generation like nuclear and hydro while also supporting the integration of intermittent resources like wind and

solar.

How will energy storage affect Ontario's Energy Grid?

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. Energy storage will allow the storage of baseload generation like nuclear and hydro, while also supporting the integration of intermittent resources like wind and solar.

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### Electrification in post-conflict Timor-Leste: Opportunities for energy

Timor-Leste's HDI was 0.607 in 2021, ranking it 140 of 191 countries and territories and below the average of 0.749 for countries in East Asia and the Pacific [47]. As shown in Fig. 3, Timor-Leste's health (life expectancy) index has steadily improved since 2001, and the education index has largely plateaued. The income index, based on Gross

### Timor-Leste: Energy System Overview

Energy Overview of Timor-Leste . CAUTION: The summaries provided below are based on the data in GEO which may be incomplete. References for Timor-Leste . Overview of CO2 Storage in Timor-Leste . Total Number of CO2 Storage : 1 : Map All CO2 Storage : Map : New Capacity Added vs Years (Aggregated over the Country):



### Ontario makes Canada's biggest-ever battery

With the Expedited LT1 and LT1 tenders added to the state-supported 250MW/1,000MWh Oneida energy storage project, the province has now secured 2,915MW of storage resources. Toronto-based developer Potentia Renewables got the biggest contract in the round at 390MW, for its 412.72MW nameplate capacity Skyview 2 BESS project in the ...

## Canada's national 'Growth Plan' could

A plan to invest CA\$2.5 billion (US\$1.97 billion) in the clean energy economy by the Canada Infrastructure Bank could lead to involvement in one of the world's biggest battery energy storage projects so far. The Oneida Energy Storage project in Southwestern Ontario is a planned 250MW / 1,000MWh system which would perform multiple applications

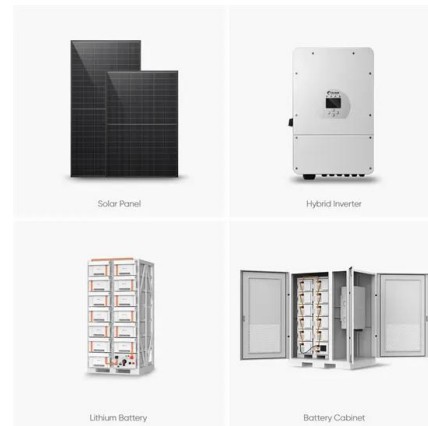


## Oneida - Canadian Battery Energy Storage

The Oneida Energy Storage Project is a 250MW/1,000 MWh advanced stage, stand-alone lithium-ion battery storage project, representing one of the largest clean energy storage projects in the world. It will deliver critical capacity and improved efficiency to Ontario's energy grid and will double the amount of energy storage resources on Ontario

## Northland Power signs agreements for Oneida ...

It will increase the amount of energy storage resources on Ontario's clean electricity grid from around 225MW to nearly 475MW once it is completed in 2025. Last week, Northland Power announced an investment in ...



## Ameresco JV in 250MW Ontario IESO tender-winning BESS project

The IESO is seeking up to 2,500MW of energy



storage capacity as well as some natural gas to help meet projected shortfalls in electricity supply and last month announced 739MW of winning bids, comprising seven standalone energy storage projects.. The systems will provide resource adequacy to the Ontario grid when they go online by the end of 2025, and ...

## **Governments of Canada and Ontario Working Together to Build ...**

The Oneida Energy storage project will support the operation of Ontario's clean electricity grid by drawing and storing electricity off-peak when power demand is low and returning the power to the system at times of higher electricity demand.



## **Northland reaches financial close on 250MW storage project**

Northland's first investment in energy storage, it is expected to bring immediate size and scale across key target markets and make the company a market leader. The Oneida project is being developed by Northland in partnership with NRStor, Six Nations of the Grand River Development and Aecon Group.

## **Timor-Leste**

Sunda Energy's wholly owned Timor-Leste subsidiary SundaGas Banda Unipessoal Lda. ("SundaGas") is the Operator of and 60% interest holder in the offshore Timor-Leste TL-SO-19-16 PSC. and the treatment and storage of carbon

dioxide. An operational office was opened in Dili in 2022 with local management and technical teams. A Competent



## Ontario picks another 142MW/1,136MWh of BESS

Data from Ontario IESO . Weighted average price for all Storage Category projects was given as CA\$881.09 (US\$666.71)/MW Business Day. Capital Power was also a winner in Storage Category 1 with a 120MW project, as was Wahgoshig Solar FIT5, a partnership between the Wahgoshig First Nation and private investors, which submitted a number of bids ...

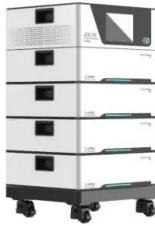
## A snapshot of Canada's energy storage market in 2023

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 ...



## Boralex, EDF, Atura Power seek support for Ontario BESS projects

The IESO's LT-1 procurement will open in



December this year, and forms efforts by the system operator to mitigate forecasted growth in electricity demand towards the latter half of this decade.. In October 2022, the province's government ordered the IESO to procure 4,000MW of capacity, including between 1,500MW to 2,500MW of energy storage as ...

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## Timor-Leste

operators involved in the energy sector in Timor-Leste. The purpose of this report is to assist the government of Timor-Leste, in particular the office of the Secretary of State for Energy Policy, to develop policies in key areas that would guide planning of the subsequent phase of its ongoing rural energy programs. The selected key areas in

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