



POTENTIA RENEWABLES

Skyview 2 Battery Energy Storage Project

ABOUT POTENTIA RENEWABLES

Potentia Renewables (PRI) is a 100% Canadian owned, developer, owner & operator of renewable energy and storage assets

- ◆ **Skyview BESS Limited Partnership** is a controlled subsidiary of PR Development LP (PRD), who is the Qualified Applicant under the Ontario IESO Long Term 1 Request for Proposals (“LT 1 RFP”).
- ◆ **Skyview BESS Limited Partnership** will be the Proponent under the LT1 RFP. PRD and Skyview BESS Limited Partnership are affiliates of Potentia Renewables Inc. (“PRI”), a Canadian developer, owner, and operator of energy assets with over 1,200 MW of solar and wind projects that are in operation, under construction, or under contract. Please visit www.potentiarenewables.com to learn more.

DEEP LOCAL EXPERIENCE

WELL CAPITALIZED OWNERSHIP

GROWING PORTFOLIO

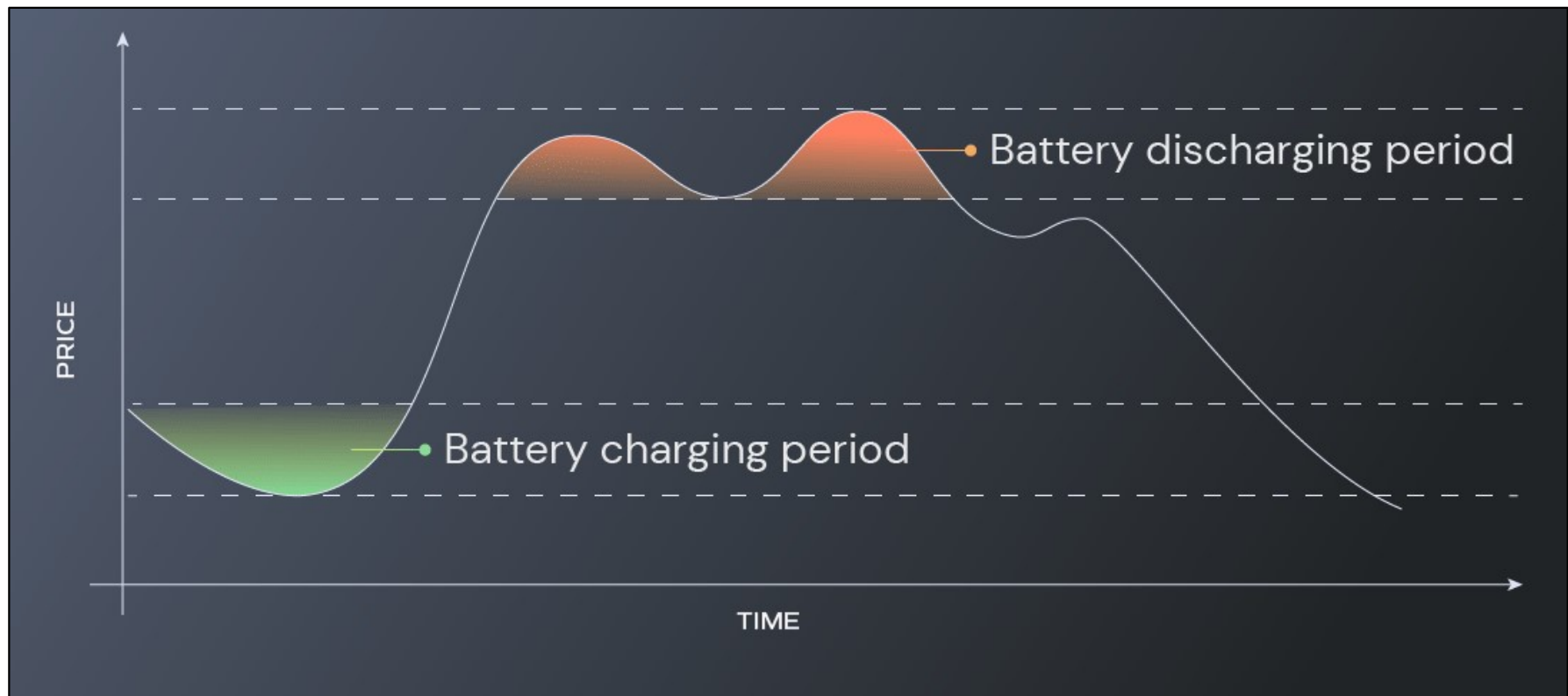


WHY IN ONTARIO?

The Independent Electricity System Operator (IESO) – the entity responsible for operating the electricity market in Ontario - is forecasting a capacity need of approximately 4,000 MW by the mid-2020s

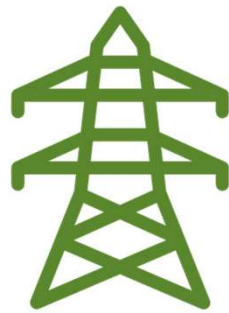


- ◆ To meet the forecasted capacity need, the IESO is procuring additional capacity resources through the LT1 RFP.
- ◆ Through the LT1 RFP, the IESO is seeking to competitively procure 2,518MW of year-round capacity services:
 - ~1,600MWs of Storage
 - ~918MW of non-storage capacity (natural gas)



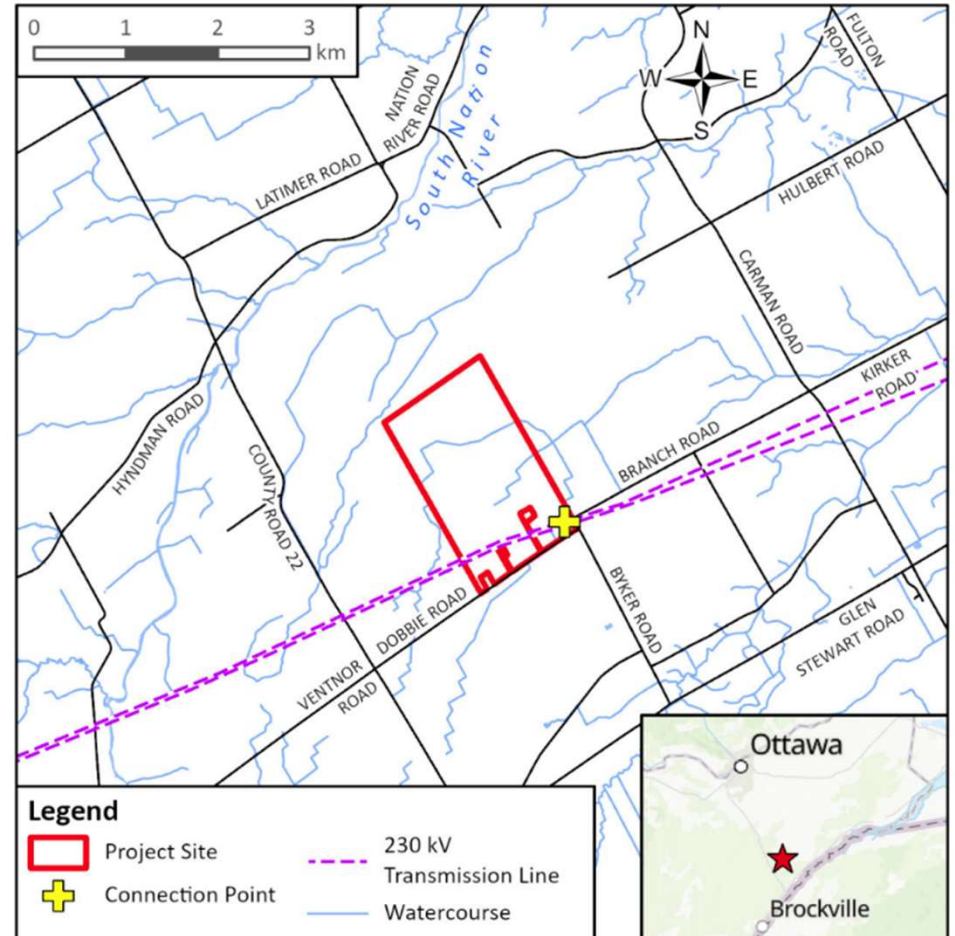
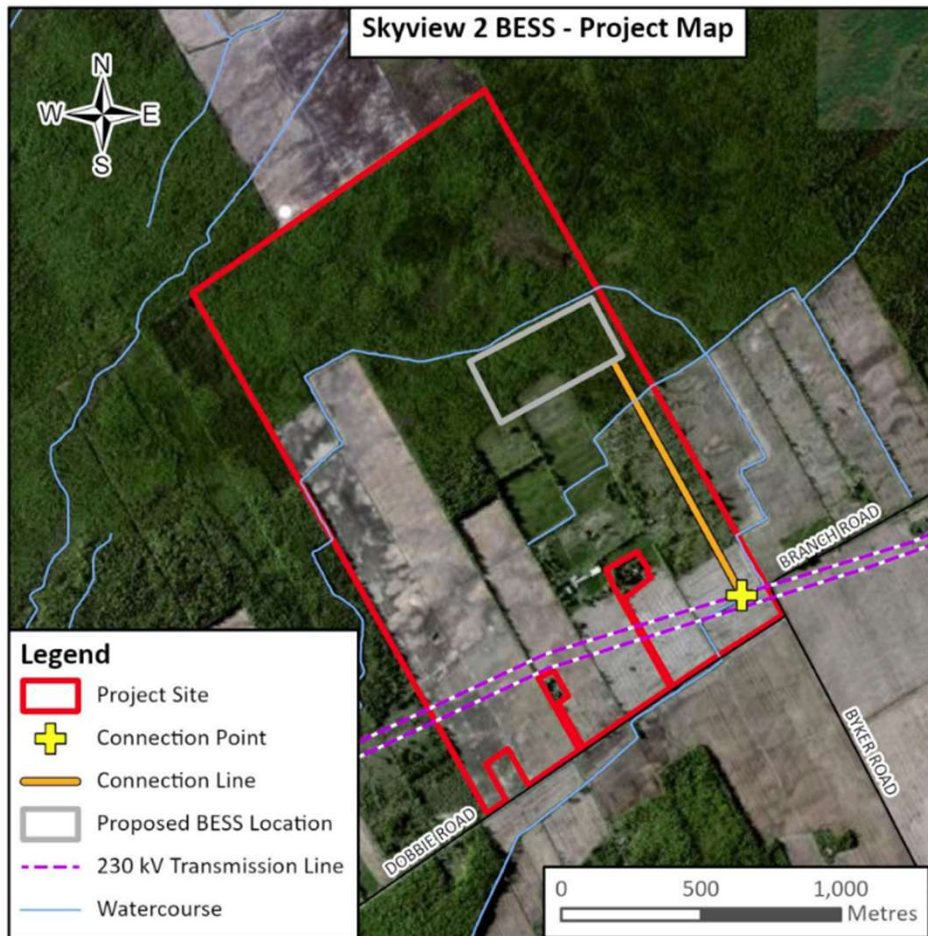
WHY TOWNSHIP OF EDWARDSBURGH CARDINAL ? WHY HERE?

- ◆ IESO identified growing electrical capacity needs in eastern Ontario.
- ◆ Strategically located on Rural lands (not prime agriculture) well setback from Dobbie Rd and Branch Rd.
- ◆ Proximity to existing power line infrastructure with the capability of interconnecting the Project.
- ◆ Minimal impact on the local environment.
- ◆ Relatively flat terrain for construction and suitable site access.
- ◆ A willing landowner.



PROJECT OVERVIEW & MAP

- ◆ **Project Name:** Skyview 2 Battery Energy Storage Project.
- ◆ **Nameplate Capacity:** Up to 450 Megawatt (MW) for four hours (1,800 MWh).
- ◆ **Location:** Township of Edwardsburgh Cardinal, occupying approximately 30 acres of land. The Proposed BESS Location is setback approximately 1,000m from Dobbie Road.
- ◆ **Interconnection:** Connecting to existing 230kV lines that run through the Project Site.
- ◆ **Technology:** Lithium-ion Battery Energy Storage Facility.



ENERGY STORAGE OVERVIEW

Energy storage works by storing energy when it is most plentiful and supplying it during periods of peak demand. This helps to maximize the use of our existing electrical grid and reduces the need for additional transmission infrastructure.

BESS Components:

- ◆ **Batteries (DC Blocks):** lithium-ion DC cell blocks placed in a rack within a temperature-controlled enclosure that stores and release energy.
- ◆ **Power Conversion System (PCS):** controls the current and voltage of the electricity received from the grid and adjusts the batteries via inverters and medium voltage transformers.
- ◆ **Energy Management System (EMS):** a.k.a. the brains of the facility, which commands, controls, monitors and manages the functionality of a project.
- ◆ **Substation:** the electrical connection point to the grid composed of main power transformers and protection and control equipment.
- ◆ **Other:** underground collector cables, roads, noise walls, foundations, etc.



COMMUNITY OPEN HOUSE – WHAT WE HEARD

TIMELINE OF COMMUNITY ENGAGEMENT

- ◆ May 2023:
 - ◆ Original outreach and meeting with the Township of Edwardsburgh Cardinal.
- ◆ September 2023:
 - ◆ Signed option to lease agreement with the landowner.
 - ◆ Additional project details provided to the Township of Edwardsburgh Cardinal staff and Councilors.
- ◆ November 2023:
 - ◆ Hosted a public Community Open House. We responded to various stakeholder requests for information prior to the open house and are continuing to field and respond to questions received.
 - ◆ Municipal Support Resolution Obtained.

OVERVIEW OF THE COMMUNITY MEETINGS

- ◆ Approx. 22 people attended our open house held on November 7th at the Ingredion Centre.
- ◆ Here what are some of the points of interest we heard from the community:
 - Interest in how recycling works
 - Operational life of the system
 - Support for siting project on disturbed non-agricultural land
 - General support for large setbacks to nearby residences
 - Support for noise walls for visual buffer
 - Lighting interests
 - Questions and Concerns raised about fire
- ◆ Minutes from the first Open House are available on the Project website and include a comprehensive question and answer section.



FIRE RISK & MITIGATION

Mitigation and Standards

- ◆ Follow local and internationally recognized safety standards established to ensure storage systems are designed, constructed and operated safely:
 - **UL 9540:**
 - Evaluates the compatibility and safety of the various components when integrated into a system.
 - **UL 9540A Test Method:**
 - The test method requires testing on the battery cells, modules, unit level and installation level testing until performance requirements for fire safety are met.
 - This test demonstrates that in event of a fire it will be contained within the BESS enclosure.
 - **Canadian Electrical Code**
- ◆ Remotely Monitored 24/7 via cell and module level sensors.
- ◆ Local Operations Crew.
- ◆ Aerosol Fire Suppression System within each battery container.
- ◆ Emergency Response Plan: Developed as a collaboration effort between local fire authorities, independent battery fire experts, and our reputable equipment provide. Training will also be provided as needed.

In a fire event what often happens is that only a few modules are damaged instead of an entire battery container catching on fire.



UL 9540A - FIRE TESTING IMAGE



- ◆ This picture was taken as part of a special fire test that all batteries must undergo and pass, known as UL9540A testing. In this test, the batteries are burned in a lab to verify what types of gases are produced, and to see if the system is designed to contain the fire.

ELECTROLYTE LEAK RISK

We take steps to ensure water quality is maintained:

- ◆ Purchase high quality financeable LFP battery cells
- ◆ These cells are sealed and placed in a temperature-controlled container that is also designed for containment
- ◆ Each battery cell is monitored 24x7 by the battery management system (BMS)
- ◆ We plan to have one or two operations and maintenance staff onsite during working days for general maintenance
- ◆ Our preferred battery vendor confirmed the electrolyte contained within all the batteries will easily be contained in the containers bottom sealed metal area

What happens to the in the event of a Fire?

- ◆ Even if a fire did not burn the electrolyte, the electrolyte would be contained within the battery enclosure
- ◆ Our emergency response plan does not require water to be applied to the impacted battery container

COMMUNITY BENEFITS

As long-term owners and operators we pride ourselves on cultivating strong relationships with the communities we work within. We understand proactive consultation and engagement are integral components of a successful project.

Long-Term Tax Revenue

- Over the course of its life span, the Project will be a source of significant and reliable contributions to the Municipality's tax base while requiring minimal municipal services. The Municipality can use the increased tax revenue to fund roads, schools, and improved municipal services.

Local Employment

- Jobs created during construction will include those related to land surveying, road construction, concrete and aggregates supply, equipment installation, substation construction, electrical testing and technical commissioning to name a few.

Boosting the Economy

- Construction site services, materials, and contractors will be sourced locally as much as possible subject to meeting quality, quantity, and workmanship requirements. Workers may also require local accommodation and services while working on the Project. In addition to the direct jobs, the Project will increase electrical capacity enabling further investment in eastern Ontario.

Community Benefit Fund

- The Project will establish a community benefit fund that we will contribute to annually throughout the Project's operational life. The fund would be used to support a variety of local community initiatives in consultation with community representatives.





CONTACT US

YOUR INPUT IS IMPORTANT TO US!

**Contact information for the Proponent,
Skyview BESS Limited Partnership, provided
below:**



Send your questions, feedback, or comments to info@Skyview2BESS.ca



Project information is also available at www.skyview2bess.ca.



236.808.5270