0

Proposed Trail Road BESS Project Community Meeting

Tuesday, November 28, 2023





Welcome to the Trail Road BESS Community Meeting

Please sign in upon arrival – thank you for attending.

Meeting Agenda

Open opportunity to engage project team members	6:30 – 7:00 pm
Project presentation	7:00 – 7:30 pm
Question and answer session	7:30 – 8:30 pm



Canadian Presence





62 Renewable facilities

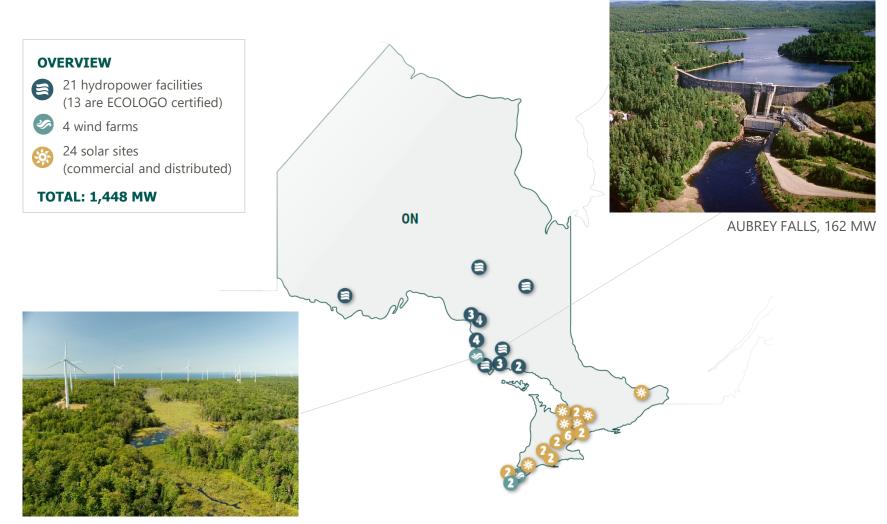


100+

Local charities supported





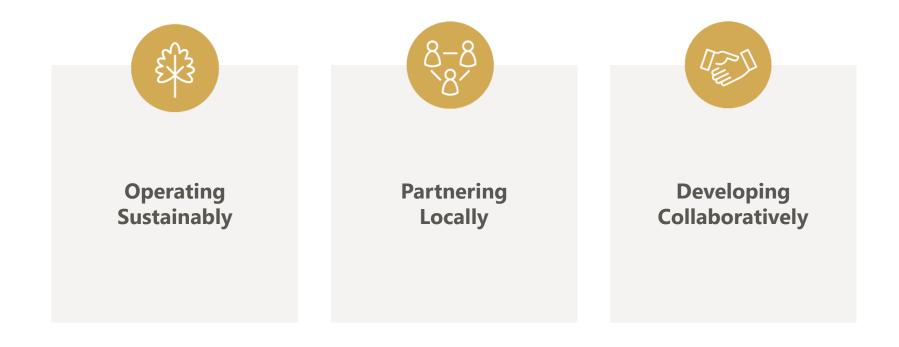


PRINCE WIND, 189 MW





The foundation of our approach to doing business is a collaborative strategy to operating sustainably.





A Uniquely Positioned Partner

Evolugen's capabilities include:

- Extensive experience owning and operating renewable assets
- Broad expertise in project development across multiple technologies
- Low-risk developer with reputation for delivering on-time and on-budget
- Significant experience partnering with host communities and First Nations
- Committed to long-term and sustainable partnerships
- Execution excellence in complex business environments
- Sophisticated in-house trading, risk management and control centre capabilities
- Robust Health Safety Security & Environment (HSS&E) policy supported by our Environmental, Social & Governance program







Independent Electricity System Operator (IESO) LT1 RFP

Ontario recently launched a competitive procurement process, called the long-term request for proposals, LT1 RFP.

After more than a decade of strong supply, Ontario is entering a period of **emerging electricity system capacity needs**, driven by:

- Increasing demand
- Retirement of the Pickering nuclear plant
- Refurbishment of other nuclear generating units, as well as
- Expiring contracts for existing facilities

To address these needs, the Ontario Independent Electricity System Operator (IESO) is continuing their competitive procurement process through the Long-Term Request for Proposals for **~2,500 MW of year-round renewable energy** (1,600 MW of energy storage and 900 MW of natural gas).

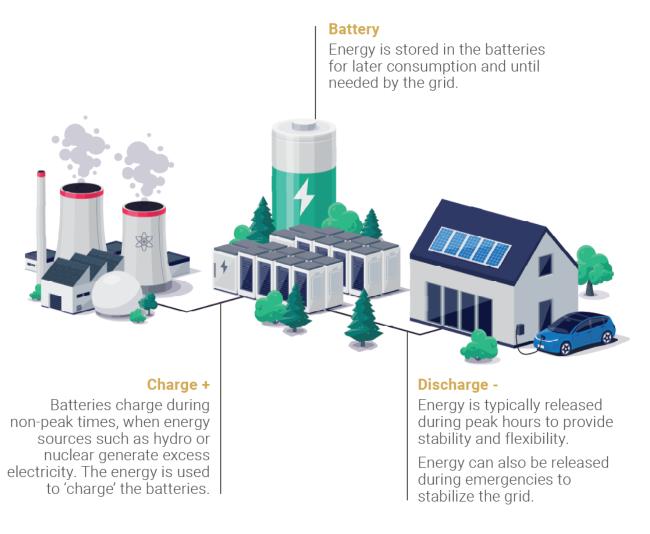
 Projects must obtain all relevant permitting licenses and conduct mandatory environmental assessments to ensure compliance with current regulatory framework





How BESS Projects Work

Energy storage adds grid capacity, enhances flexible grid operations and avoids greenhouse gas (GHG) emissions in Ontario by reducing the need for carbon-intensive power plants during times of peak demand.





Trail Road BESS Project Overview

Project consists of installing battery modules, additional power equipment, light civil, safety, and security infrastructure.



In the feasibility stage Sits on **~8** acres of an ~53-acre site

Interconnects to the grid using the nearby 230 kV circuit Adds up to **150 MW** of capacity and **600 MWh** of energy storage Annual local community contribution of **\$150K**





Operational 100 MWh facility, Texas





We're exploring all options to be an economic driver in the community, working with the City of Ottawa, First Nations and our partners to explore sustainable solutions.

The Trail Road BESS Project:

- Is positioned near an existing 230 kV transmission line with available capacity to support a 150 MW BESS
- Is located on Rural Land, avoiding development on agricultural land, to conform with the City of Ottawa's Official Plan
- Is situated more than 700 meters from the nearest residential home to lower the impact of noise and visual obstructions
- Is located 30 minutes from our head office







Project adds **renewable capacity and storage** to meet Ontario's rising energy demands, especially during peak-periods, reducing the chance for power outages.



Project represents a **local innovative low-carbon solution**, supporting sustainability efforts by **reducing reliance on higher carbon** intensive facilities.



Project is in the **feasibility stage**; subject to the IESO determining the Project to be best for Ontario ratepayers.



Community benefit fund will be established to ensure contributions from the Project into the local community to support various programs and initiatives, and additionally, will contribute **property taxes** to the City of Ottawa.



Community Benefit Fund

We strongly believe in being an active partner in the Ottawa region.

- Trail Road BESS will establish a community benefit fund of \$150,000 annually, aimed at supporting local organizations that contribute to the well-being of the community.
- As part of our culture, we support local programs, initiatives and organizations, including the Ottawa Food Bank, the CHEO Foundation, Dress for Success Ottawa, Ottawa Riverkeeper and more.
- We would seek community feedback on how to establish and administer the fund to ensure there is local input on what organizations and projects are being chosen and supported.







Environmental Considerations

We're committed to working with the community and authorities to ensure safe and thoughtful planning of the Trail Road BESS Project.

Primary Considerations



If Evolugen is chosen by the IESO, we will need to **obtain all required approvals** and **permits from the City of Ottawa** and **provincial authorities**.



Safety & Fire Mitigation

Evoluoen

Our safety culture is exemplified by more than two decades of experience and our track record of zero employee or contractor fatalities.



15

Core elements of our fire safety approach





Individual Cell

Cells within the Module



Module



Cabinet Set Up







Safety is applied at all design levels of battery systems – cells, modules, racks, enclosure, and Battery Management System. Rigorous testing and certification is required for all products.



- LFP Chemistry
- Cell Design
- Propagation Prevention
- Rack level electrical protection
- Fire Suppression System
- Ventilation System
- Appropriate clearances to prevent propagation

Testing & Certification

- Battery Cells, Modules & Racks and Battery Management System
 - UL1973 & UL1642
 - Safety features and design
 - Testing completed at cell, module and unit level
 - UL9540A tests behavior in thermal runaway event
- Battery System

.

- UL9540 Container & System level safety
- NFPA 855 Container Design and Site Design Safety

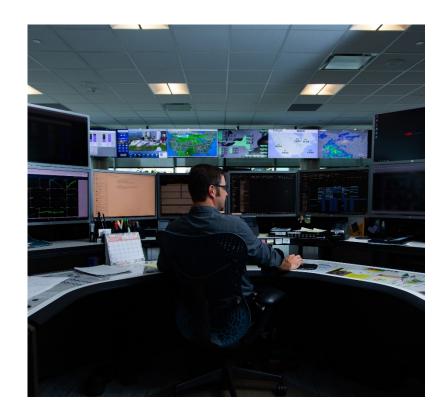




Facility will be monitored 24/7 by Evolugen's remote control center. Multiple levels of monitoring, including at the cell, rack, container and site level.

System Monitoring

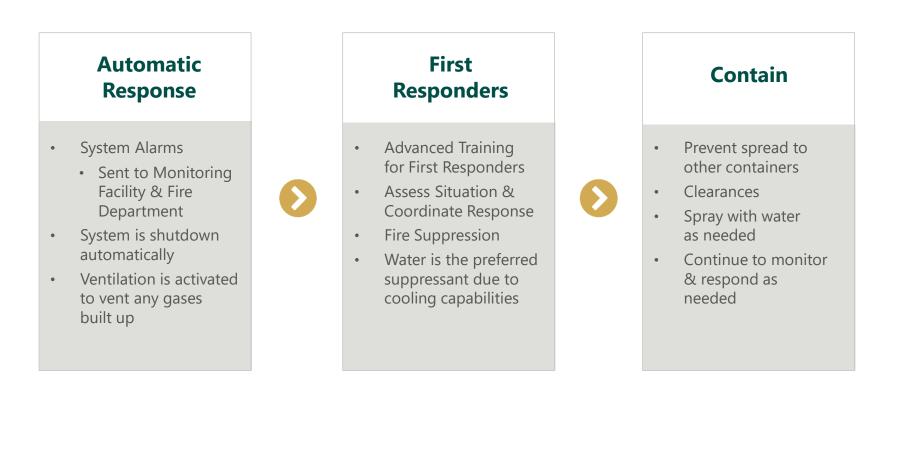
- Battery Management System
- Cell & Module Level Monitoring
 - Temperature sensors and protection
 - Overcharge/Over-discharge (voltage) sensors and protection
 - Overcurrent sensors and protection
- Container disconnect in event of alarm
- Container smoke, heat & temperature detection
- Any alarms will be sent to Evolugen, Battery Supplier and First Responders





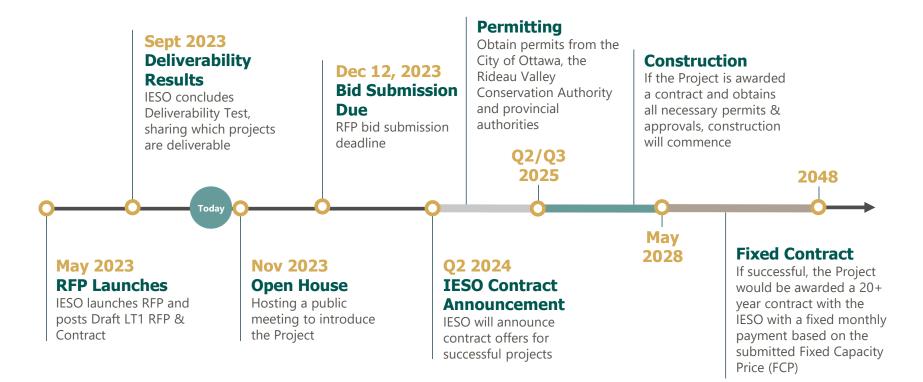


Evolugen will develop a comprehensive Emergency Response Plan and will work with the community and first responders to develop the plan and approach.





Project Timeline and Next Steps







To ask questions, please use the microphone at the front

21



0

Thank you for attending



