

WELCOME

to the

Oxford Battery Energy Storage Project



BORALEX



About Boralex



Canadian-based company.



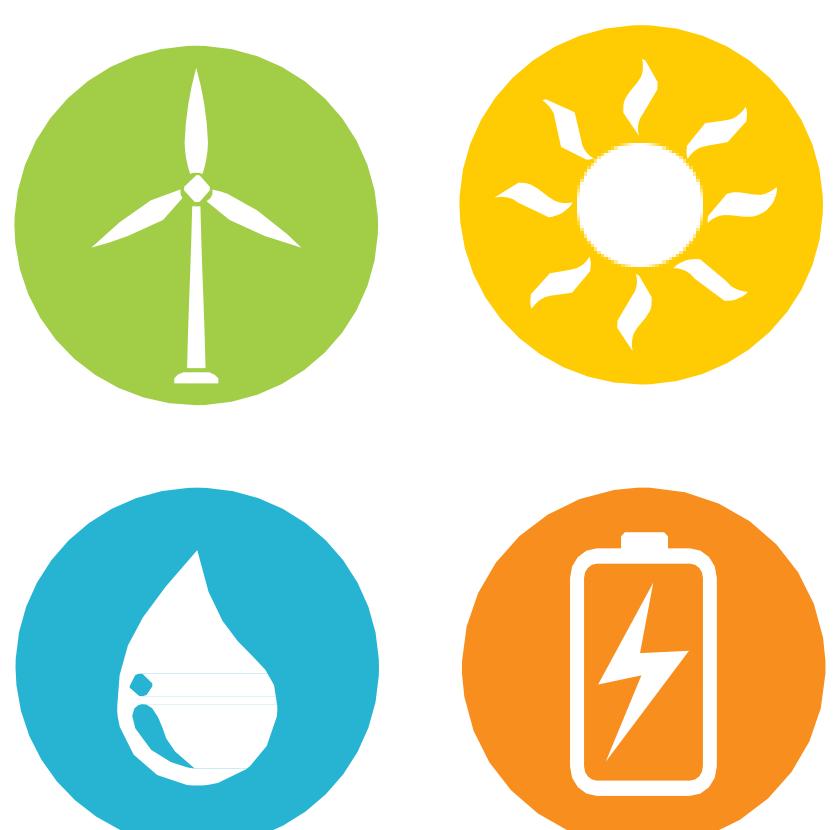
Leader in renewable energy in North America and Europe.



More than 30 years of experience, including over 10 years in Ontario.



Over 3 GW of installed capacity.

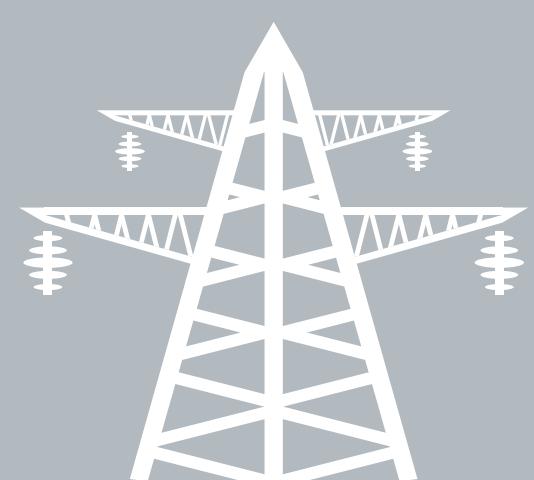


We develop, build, and operate wind, solar, hydro electricity generation systems, and storage.



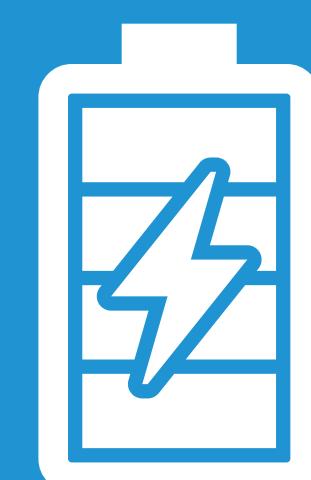
Investing In A Brighter Future

SNGRDC manages the economic interests of the Six Nations Community through business ventures surrounding the Six Nations territory, including a vast renewable energy portfolio.



230 KV

CAPACITY



1,095 MW

CAPACITY



1,636 MW

total participation in clean energy

154

WIND TURBINES



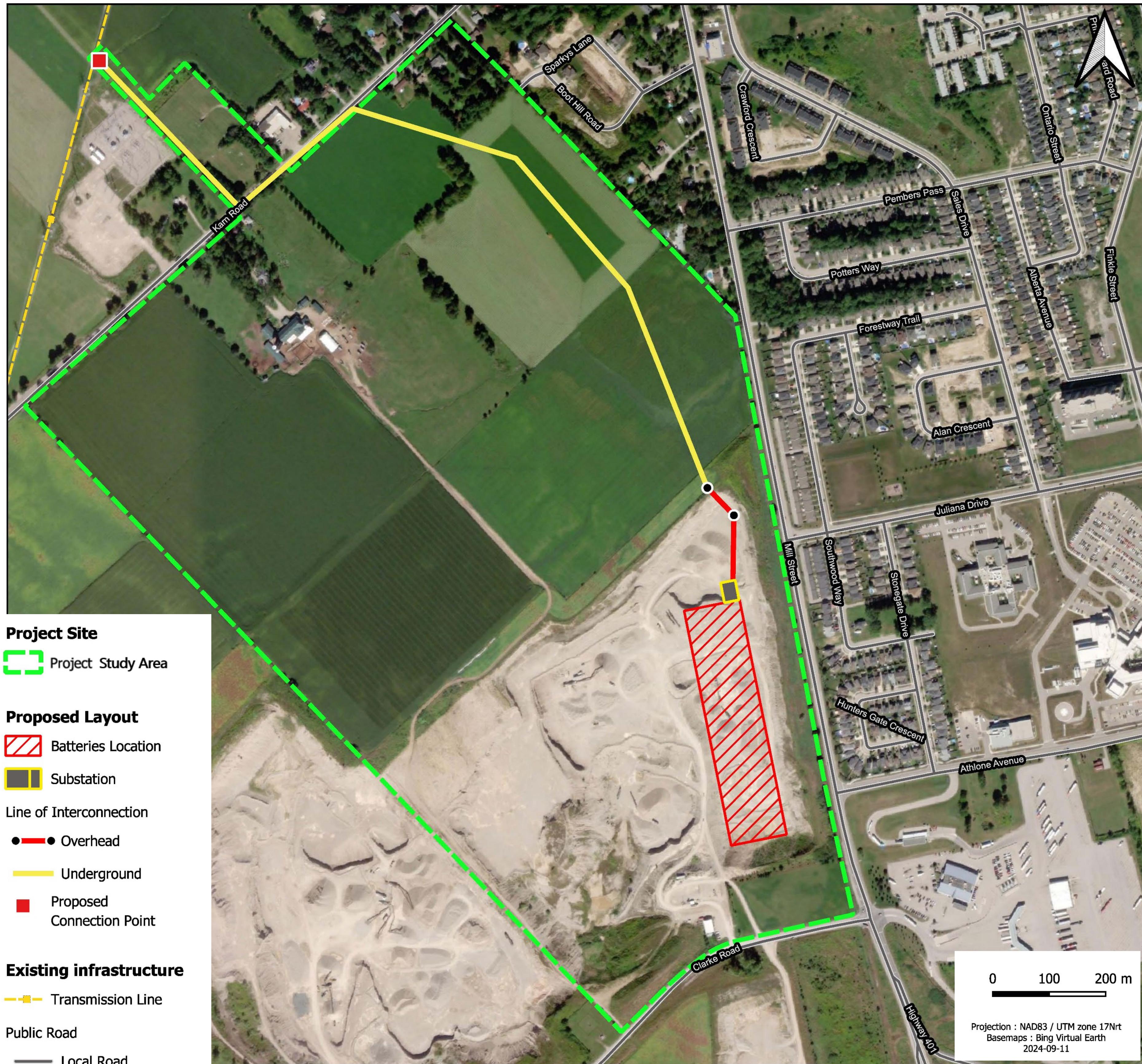
635,887

SOLAR PANELS

Why Is This Project Needed?

- Ontario requires new electricity resources, such as energy storage, to meet our energy needs for **this decade**.
- To address this need, the Independent Electricity System Operator (IESO) secured approximately **3,000 megawatts (MW)** through competitive bids, including the **Expedited Long-Term Request for Proposals (E-LT1 RFP)** and **Long-Term Request for Proposals (LT1 RFP)** processes.
 - Boralex was the **Leading Contract Awardee** in E-LT1, with **two Storage Projects** totalling **380 MW / 1.5GWh**.
 - On May 9, 2024, Boralex, in partnership with Six Nations of the Grand River Development Corp., won a contract for the **Oxford Battery Energy Storage Project** to provide **125 MW** of storage capacity through the LT1 RFP process.

Project Description



- Located in the Township of **South-West Oxford**.
- **125 MW** for 4 hours capacity.
- Connection to the existing 115 kilovolt (kV) transmission line.
- Majority of the 1.5 km interconnection line will be underground.
- The project will be located in an aggregate facility to **minimize environmental impact and repurpose non-arable land**.
- The inherent sound barriers formed by the surrounding aggregate pit walls make this **site naturally conducive to sound reduction**.

Project Components



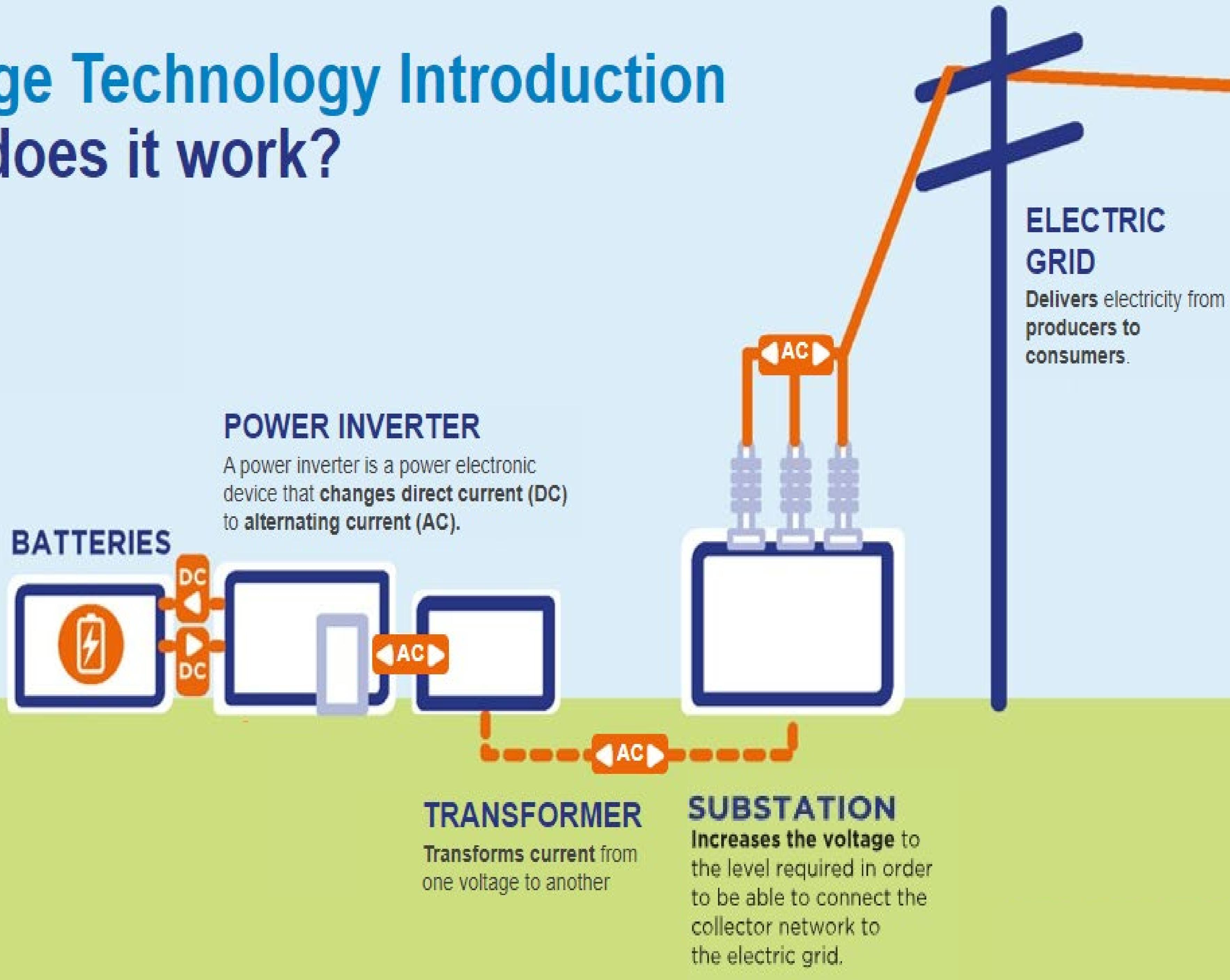
- **Battery containers** equipped with a monitoring system and automatic shut off systems for enhanced safety.
- **Transformers and substation** to change the voltage for storage or to deliver to the electrical grid.
- **Transmission line** to connect the Project to the Hydro One transmission line.
- Gravel roads.
- Maintenance and operations building.
- Perimeter fencing.

How Does Battery Storage Work?

ENERGY STORAGE IS THE PROCESS OF CAPTURING AND RETAINING ENERGY AT ONE POINT IN TIME, SO THAT IT CAN BE USED AT ANOTHER POINT IN TIME.

Storage Technology Introduction

How does it work?



- Energy is generated from various sources.
- This energy enters the grid.
- The energy is constantly metered and monitored by a battery management system.
- If there is surplus energy, energy from the grid is converted from alternating current (AC) to direct current (DC) for storage in the BESS.
- The energy is stored and the battery management system continuously monitors and controls the flow of energy and optimizes how batteries are charged/discharged.
- When there is a need for more energy on the grid, energy is discharged from the BESS and converted from DC to AC to feed back into the grid.

Permitting Process Overview & Engagement Process



ENVIRONMENTAL

- Class Environmental Assessment (EA) for Transmission Facilities to be obtained from the Ministry of the Environment, Conservation and Parks (MECP).
- Environmental Compliance Approval (ECA) for sound to be obtained from the MECP.
- Municipal building permits
Other permits and approvals as determined by baseline condition characterization.



CONSTRUCTION

Implement standard construction mitigation practices

Elements that will be carefully considered:

- Air Quality
- Sound
- Environment & Wildlife
- Local Traffic Safety
- Fire Management
- Erosion and Sediment Control



OPERATION

Comply with requirements

Procedures that will be carefully enforced:

- Emergency Response
- Fire Management
- Sound
- Environment
- Vegetation Management

Environmental Studies



- Environmental studies will assess:
 - Natural environment
 - Groundwater
 - Archeological resources
 - Cultural heritage
 - Soil conditions
 - Sound
- Studies are being undertaken through background research and field investigations.
- Through careful planning, the project will be designed to avoid, minimize, or mitigate potential negative effects on environmental features and communities.
- Engagement with Indigenous Communities, local communities, and municipal council and staff began in 2023. The Environmental Screening will consider Indigenous & stakeholder-interests and feedback received throughout the process.

Commitment to Fire Safety



PREVENTION

- Retain a **verified third-party Fire Safety Expert**.
- Selecting BESS equipment designed to meet **National Fire Code of Canada, NFPA 68 and/or 69 standards**.
- Batteries are designed and manufactured to **adhere to and pass evolving safety tests** prior to operation including **UL 9540 and UL 9540A**.



MONITORING & DETECTION

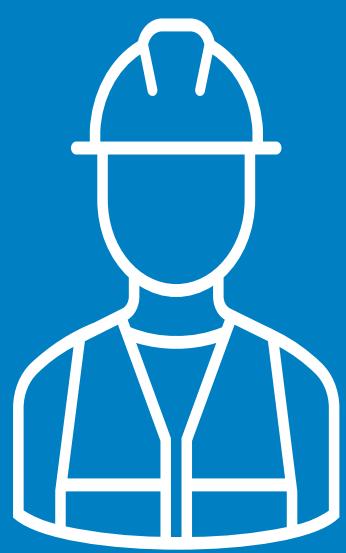
- Thermal **management systems (fans, ventilations, cooling)** to maintain safe operating temperatures.
- In equipment **safety controls (sensors)** to detect potential abnormal battery behaviours.
- Control room **monitors to detect potential variances** in battery behaviors.



EMERGENCY RESPONSE

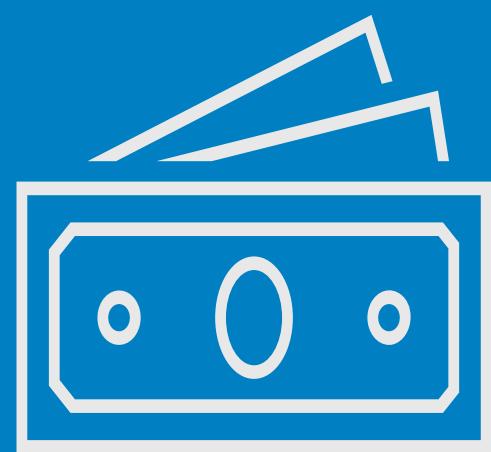
- Prepare comprehensive **emergency response plan** in collaboration with third-party Fire Safety Experts and local fire departments.
- Provide rigorous **Safety Training for first responders & onsite personnel**.

Community Benefits



Employment

Creating jobs in host communities: ~ 100 Jobs created during construction. ~ 1-2 full time employees for operation.



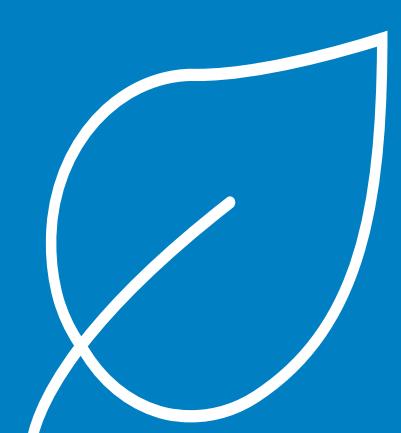
Economy

Procuring local: Expect to procure **materials and services** from host communities (e.g., aggregates, civil works, machinery).



Consumers

Reduce energy bills: Significant benefits to **Ontario's ratepayers** by **reducing the need and cost** associated with using gas-fired power plants during times of peak demand.



Environment

Sustainable Energy: Fosters **penetration of renewable energies** by reducing carbon emissions from traditional energy systems (e.g., fossil fuels).

Supporting the Local Community

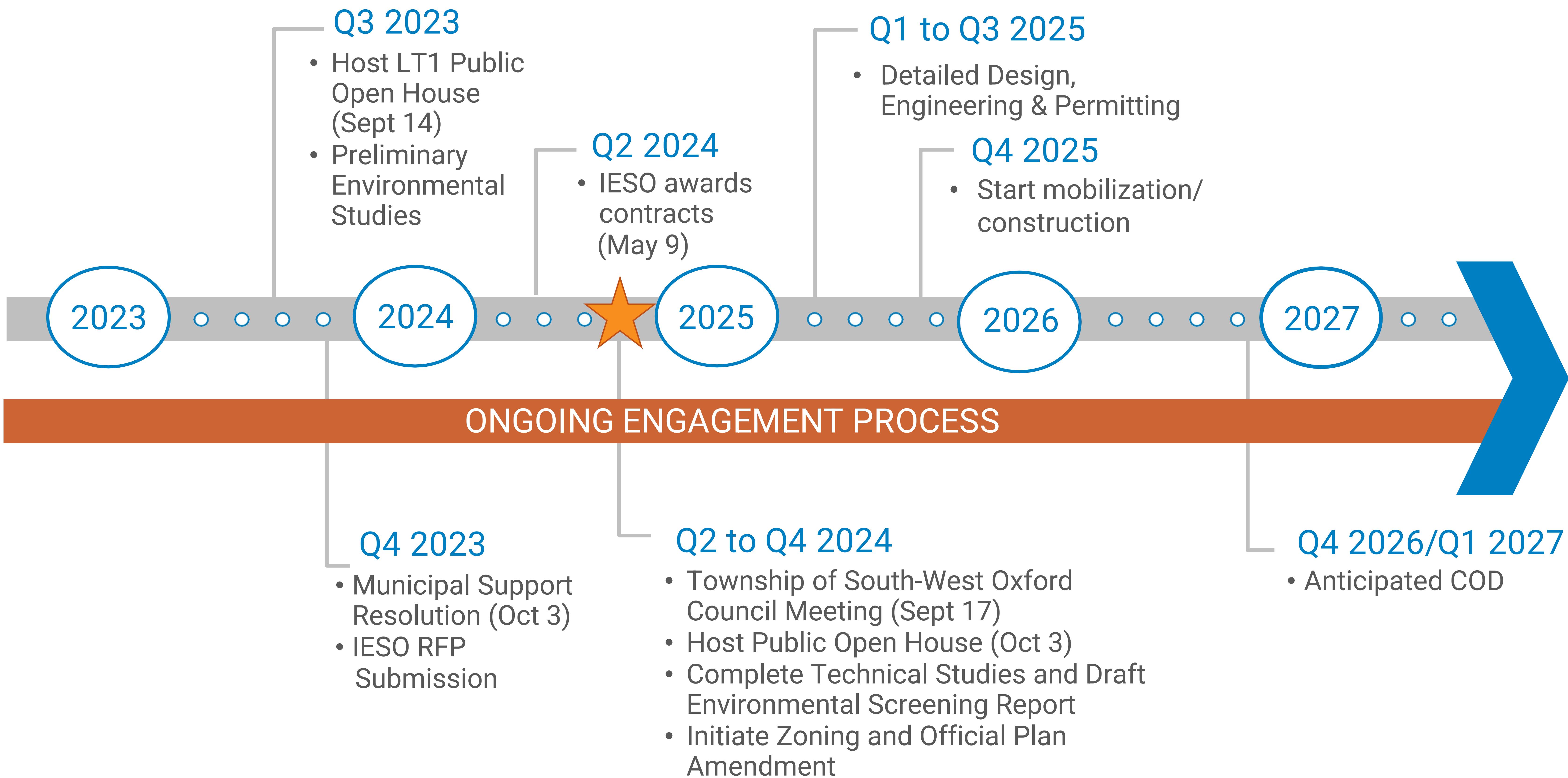
Boralex is dedicated to being a good neighbour and an integrated part of the community.

Every year we support local non-profit organizations, charities, and events that contribute to the vitality of the area.

We believe a successful project benefits the entire host community.



Anticipated Project Timeline



Thank You for Attending!



Have more questions or looking for additional information?

- Speak directly with the project team in attendance.
- Complete a comment form.
- Email us at info@boralex.com.
- Visit the Project website: www.boralex.com/projects/oxford.

Land Acknowledgment

We acknowledge that we are on aboriginal land that has been inhabited by Indigenous people since the very beginning.

As settlers, we express gratitude for the opportunity to meet here and thank all of the generations of Indigenous peoples who have cared for this land.

In particular, we acknowledge the Haudenosaunee, Lenape and Anishinaabek peoples.