

Atura Power

Nanticoke Battery Energy Storage System

Public Information Centre

Land Acknowledgement



Atura Power respectfully acknowledges that the proposed Nanticoke project is located within the traditional territory of the Mississaugas of the Credit First Nation, Anishinaabe and Haudenosaunee peoples.

Today, this land remains home to the Six Nations of the Grand River and the Mississaugas of the Credit First Nation, as well as many other First Nations, Inuit and Métis peoples. We also acknowledge the presence of diverse non-Indigenous communities who now live and work on these lands.

We recognize the enduring connection Indigenous peoples have to this territory and the responsibilities we share in the stewardship of the land, water and natural resources.

Atura Power is committed to building and sustaining respectful, reciprocal, and meaningful relationships with Indigenous communities across Ontario grounded in the principles of peace, respect and friendship.

Welcome

Purpose of Public Information Centre:

- Learn about the proposed Nanticoke Battery Energy Storage System
- Meet the project team
- Share your thoughts and ask questions



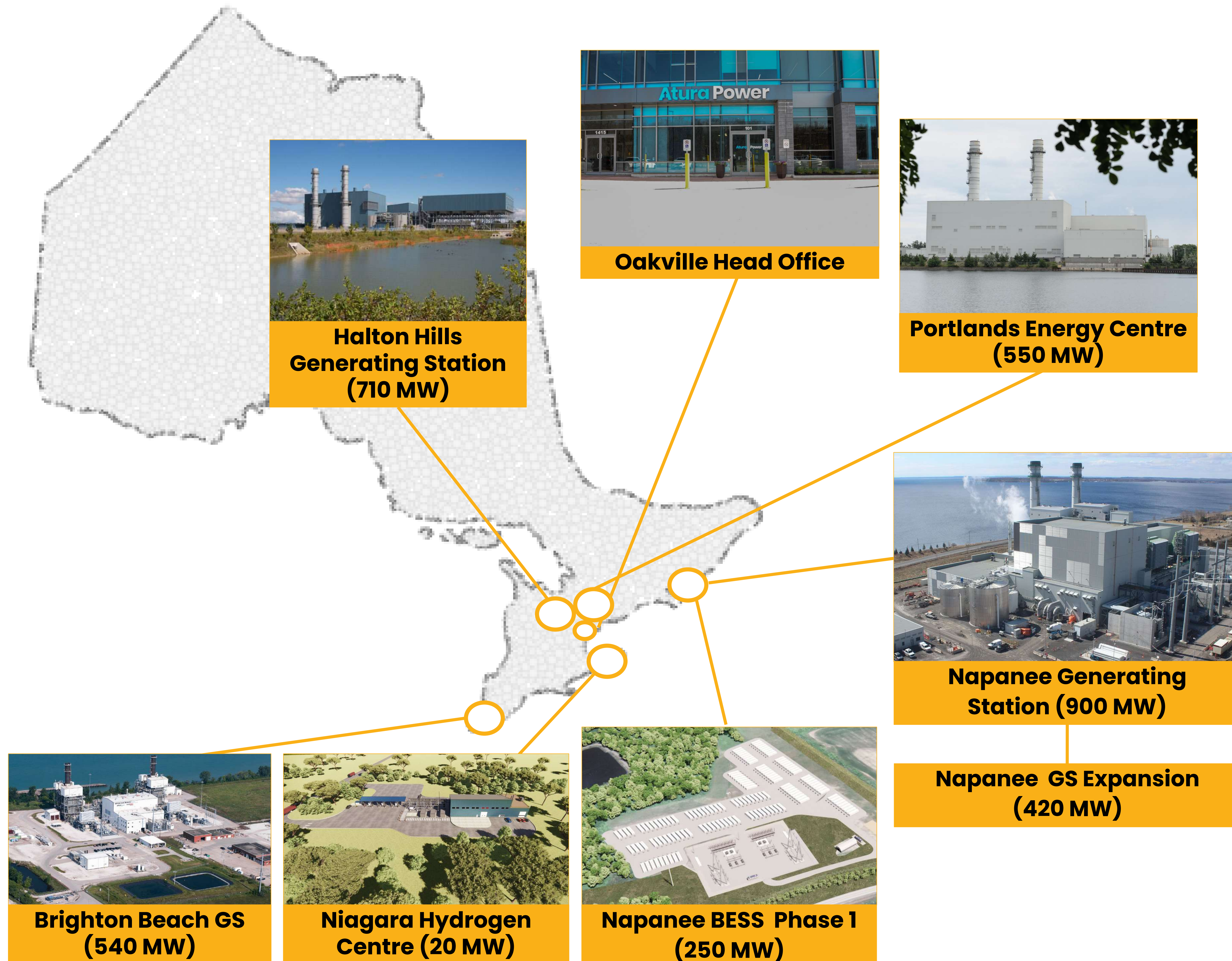
Pictured: Location of proposed Nanticoke BESS.



Who We Are

Atura Power plays a key role in Ontario's electricity system by generating safe and reliable electricity.

- A subsidiary of Ontario Power Generation
- Operates the largest fleet of combined-cycle gas turbine generating stations
- Investing in new, non-emitting energy technologies, including battery energy storage and hydrogen



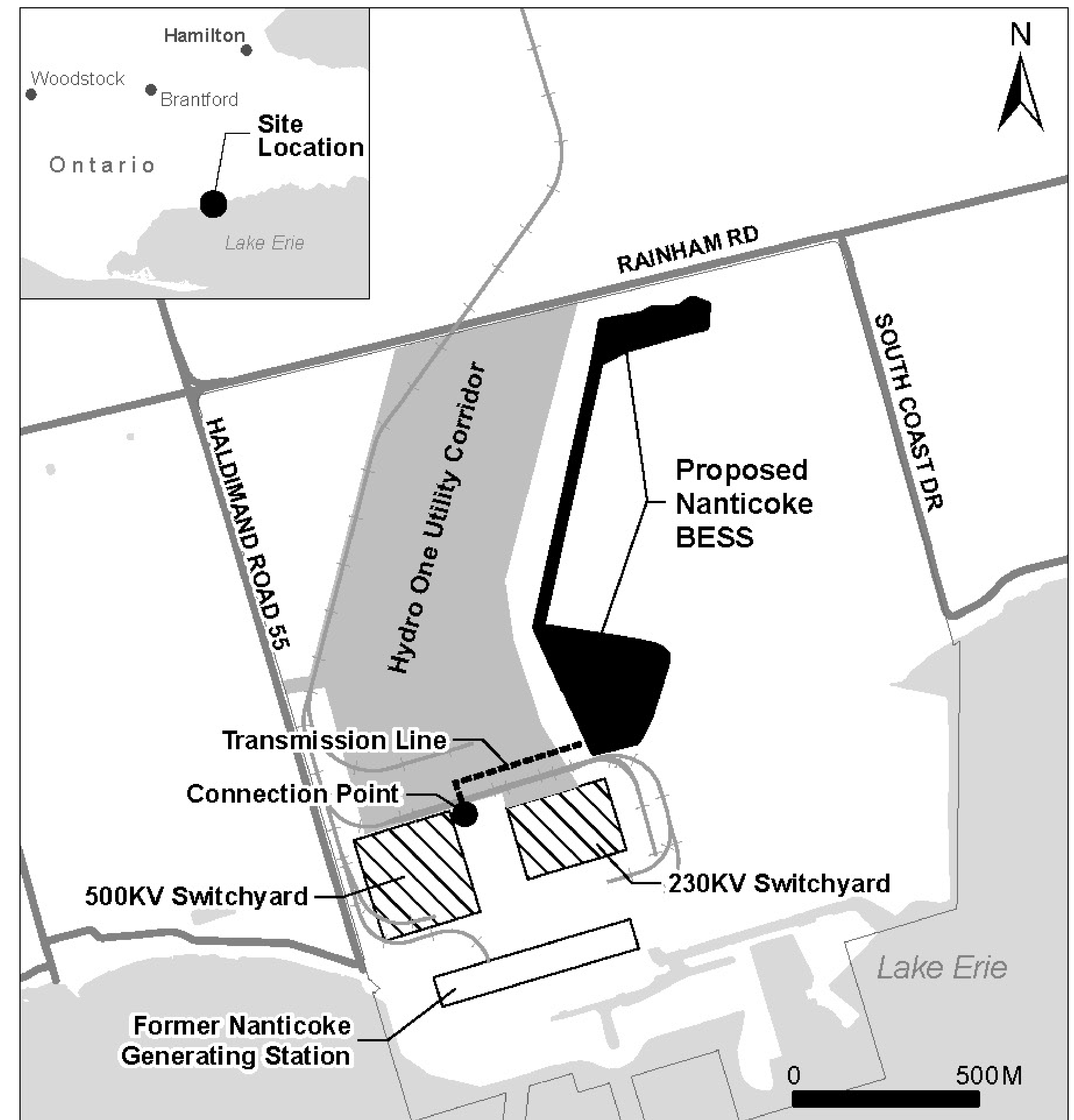
Project Need

According to Ontario's Independent Electricity System Operator (IESO), the Province's demand for electricity will increase 75% by 2050.

Ontario is increasing its capacity for renewable energy sources and energy storage systems to meet growing demand.

Atura Power's proposed Nanticoke Battery Energy Storage System (BESS) will store power in periods of low demand and provide the grid with peaking power during times of high demand, for up to eight hours at a time.

Nanticoke BESS will support a more reliable grid, providing power when it is needed most.



Pictured: Location of proposed Nanticoke BESS.

Did you know? Battery energy storage complements other forms of electricity production, including solar and wind, creating a grid that is both reliable and flexible in its use of energy sources.



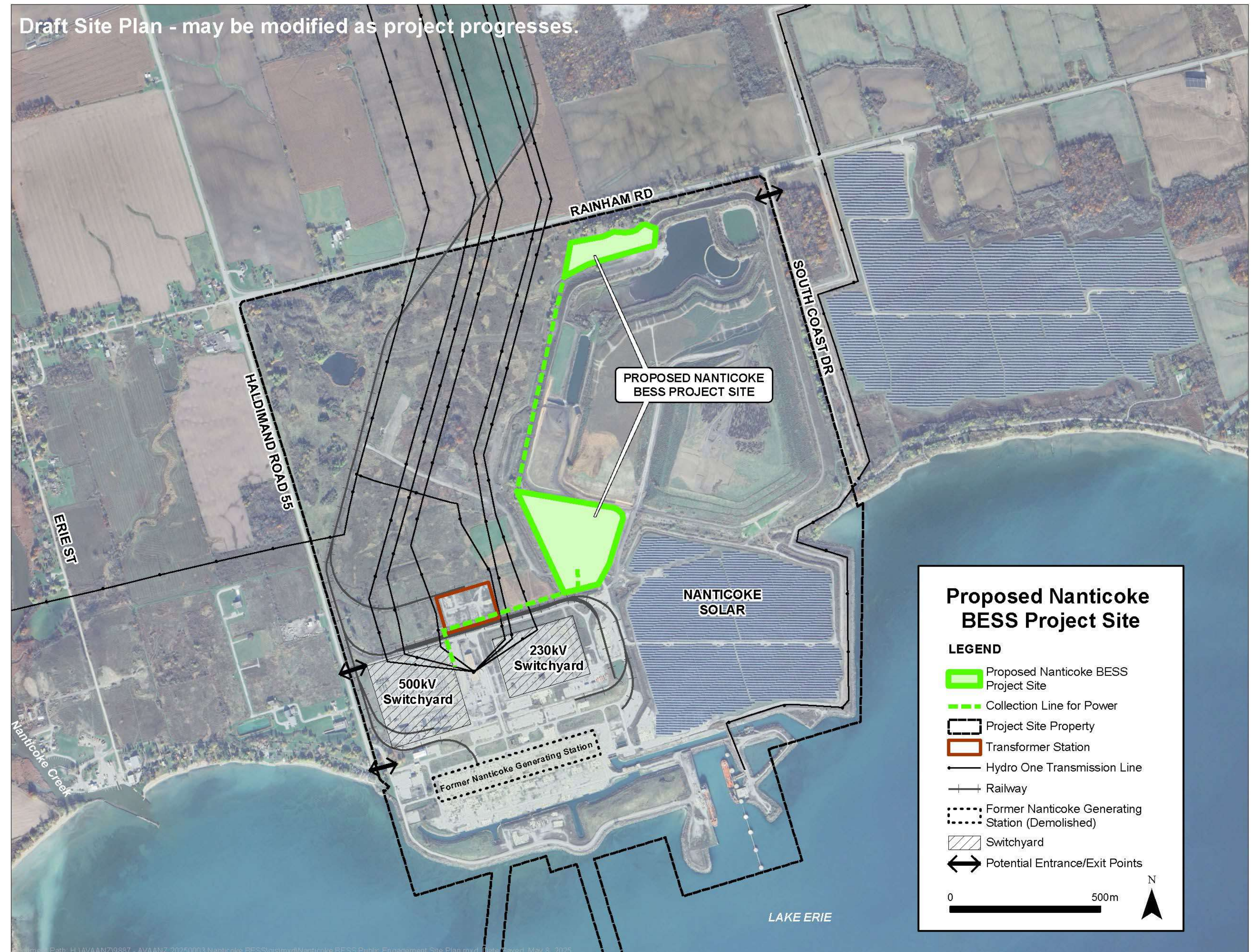
IESO Long-Term 2 Procurement

- Atura Power is proposing the Nanticoke Battery Energy Storage System (BESS) through the Independent Electricity System Operator (IESO) Long-Term 2 (LT2) procurement process
- Securing new electricity resources, like Nanticoke BESS, will help address demand and ensure availability of reliable and affordable electricity
- The IESO is requesting proposals for 20-year energy contracts
- Atura Power plans to submit a proposal to the IESO for the Nanticoke BESS as part of the LT2 process
- Atura Power is committed to Indigenous and public engagement as part of the LT2 process and beyond



Project Description

- Nanticoke BESS will store and output up to 300 MW of electricity for up to eight hours
- The project will be located north of the former Nanticoke Generating Station between Haldimand Road 55 and South Coast Drive in Haldimand County
- The project site is zoned for industrial use with access to nearby transmission infrastructure



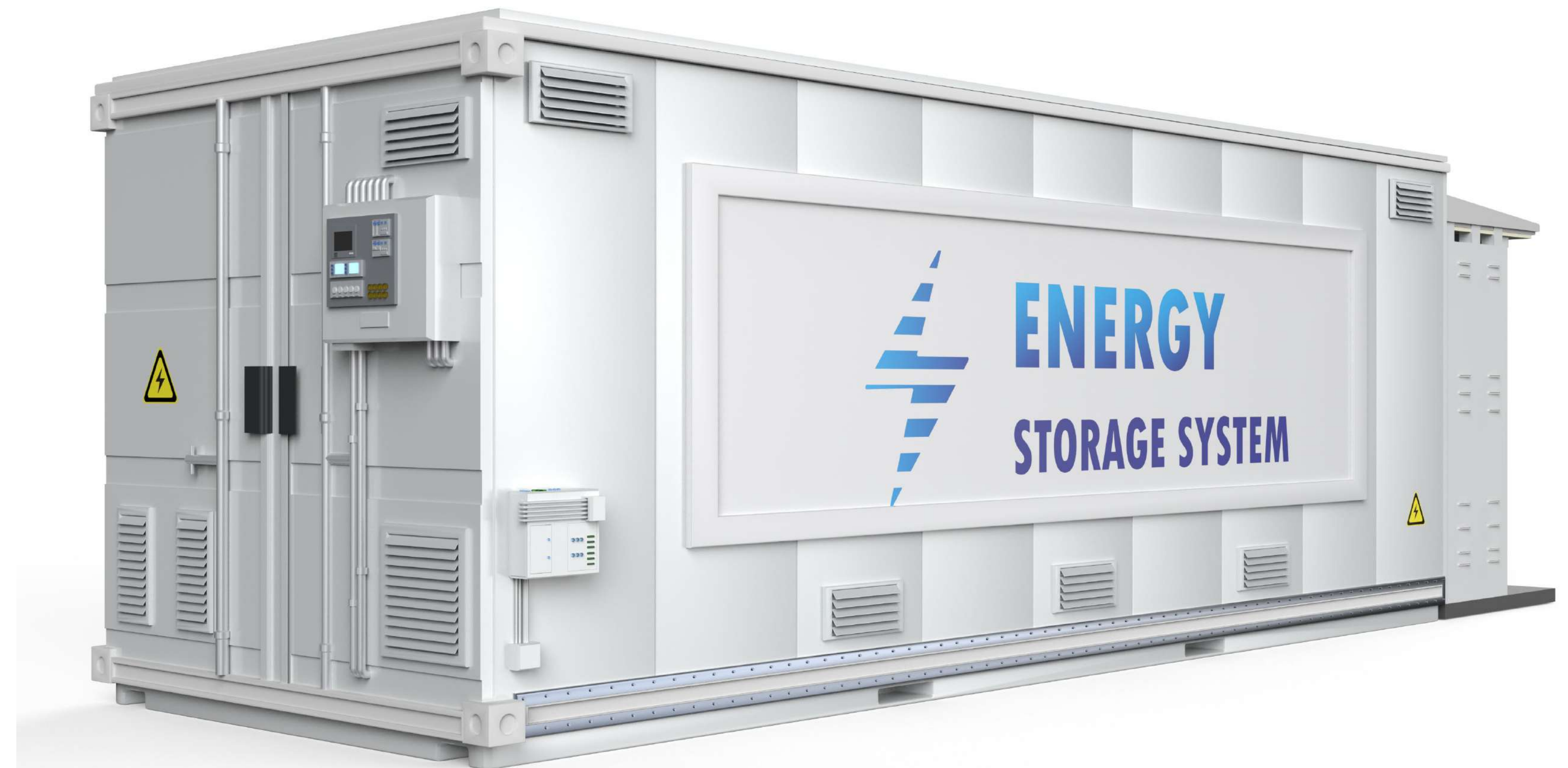
Pictured: Location of proposed Nanticoke BESS.

Project Technology



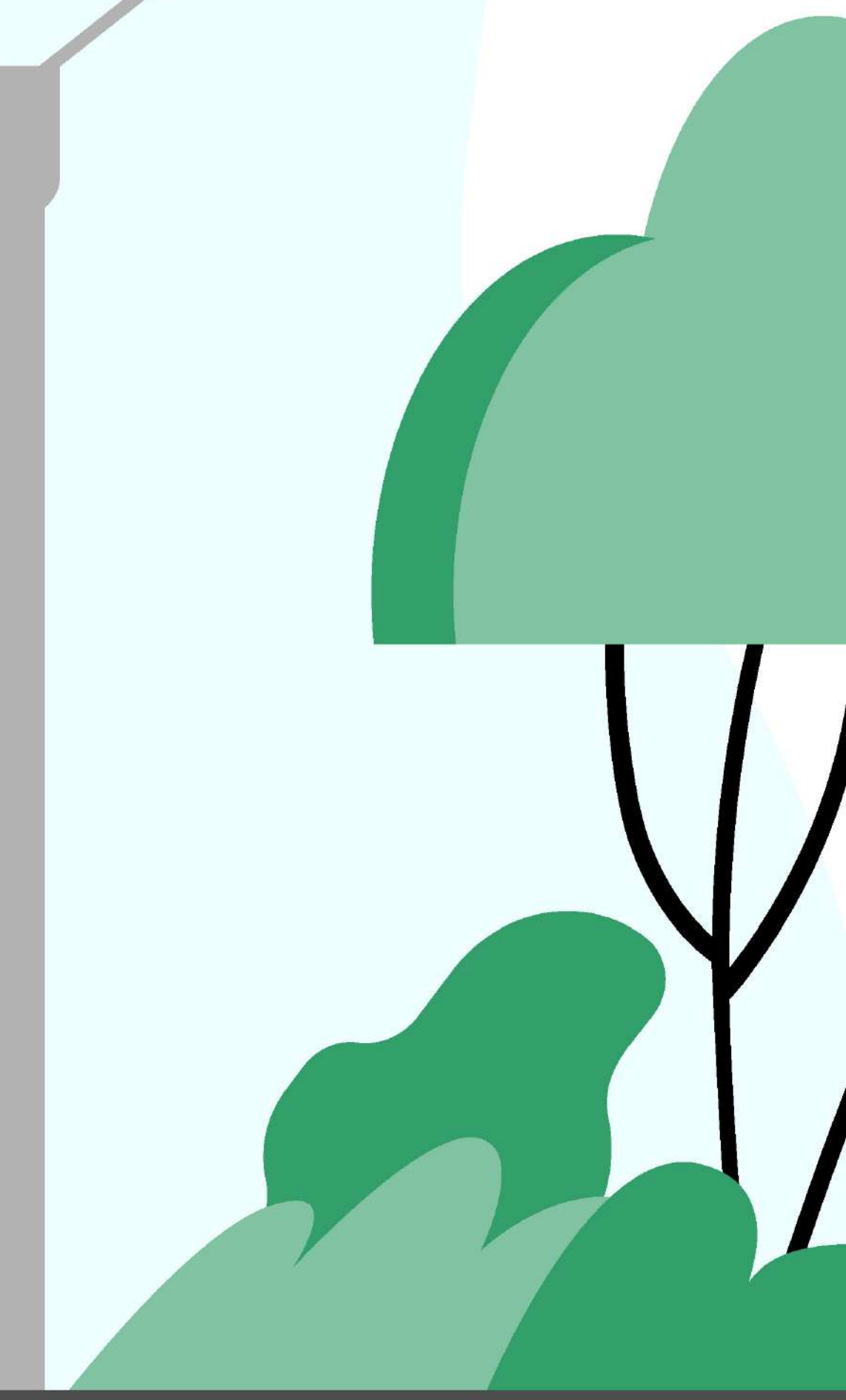
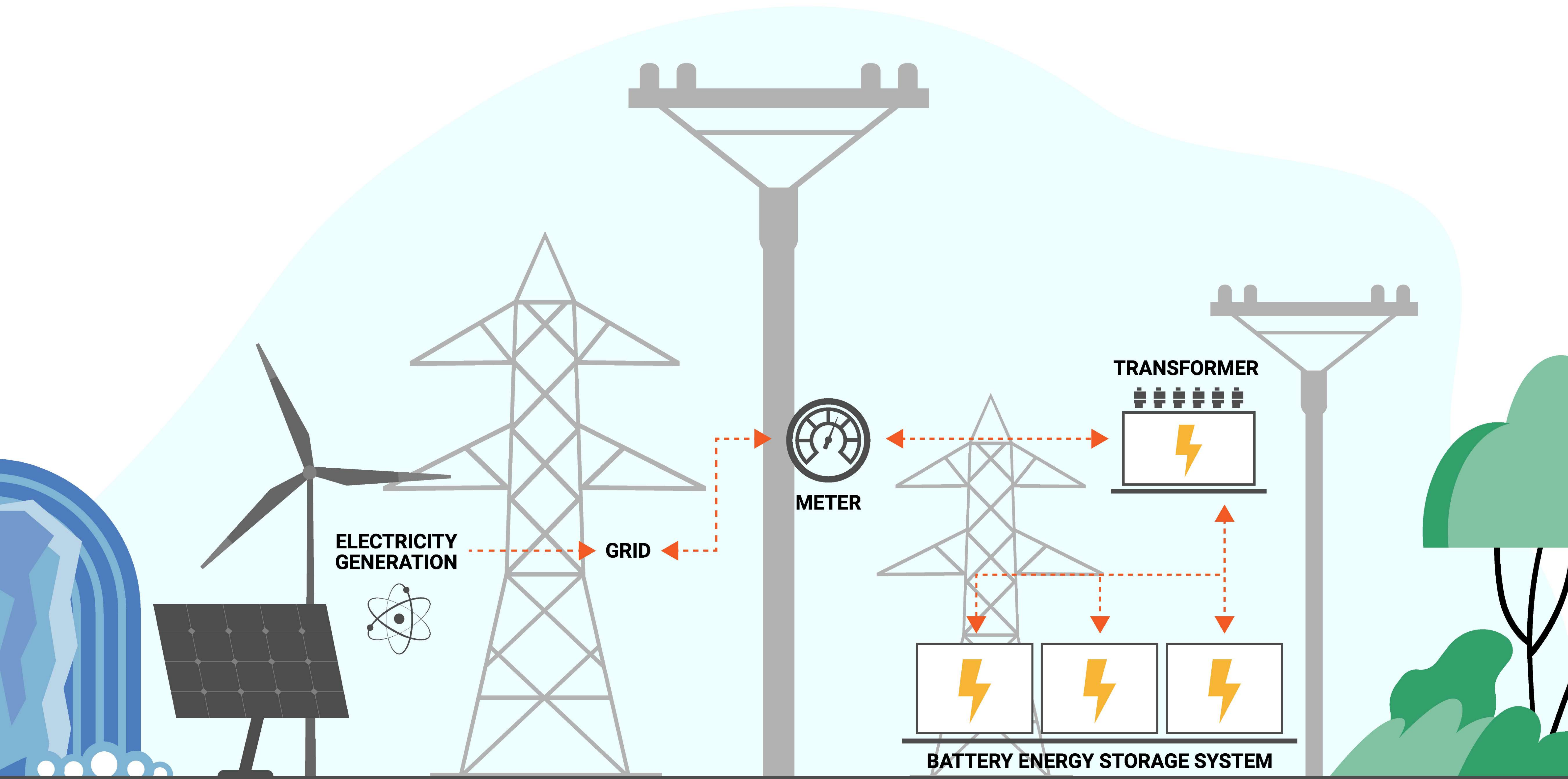
The **Nanticoke BESS** will include:

- Lithium-ion battery units
- A system that will convert electrical alternating current (AC) to direct current (DC) for battery storage
- Transmission connection and transformers
- Emergency power and support buildings
- On-site operation and monitoring

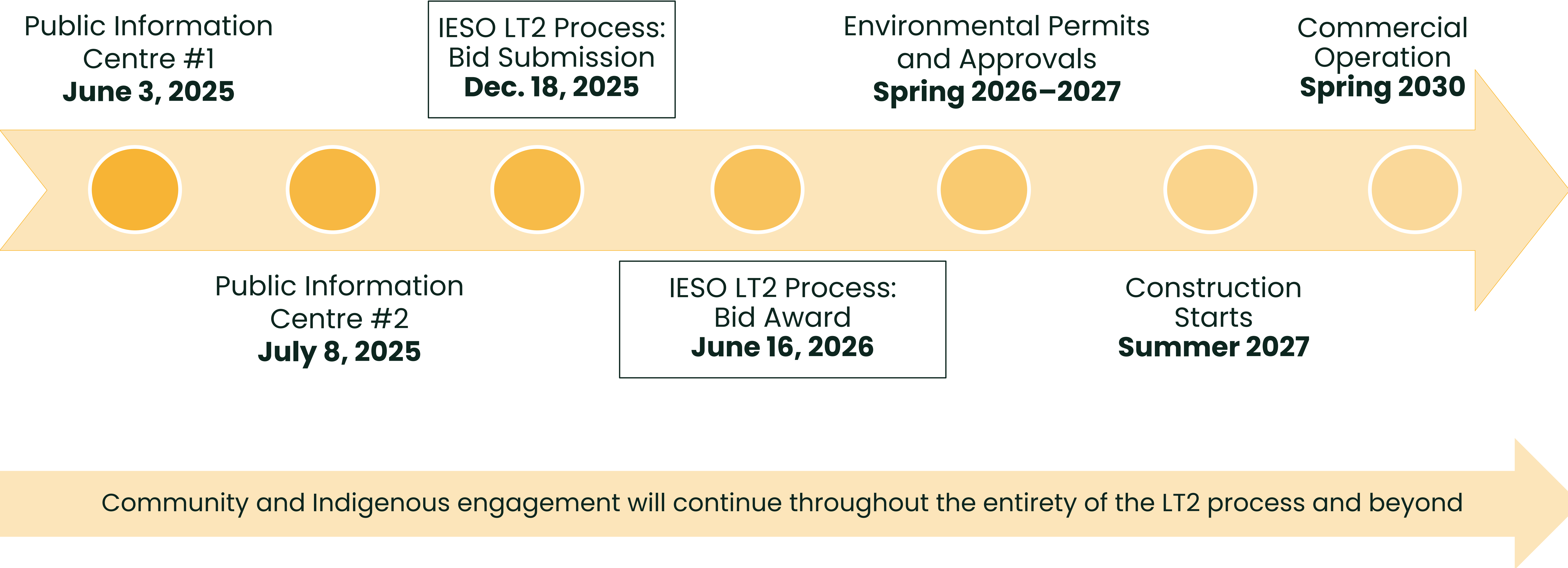


Pictured: Conceptual image of a battery energy storage unit

How Battery Energy Storage Works



Proposed Timeline & Next Steps

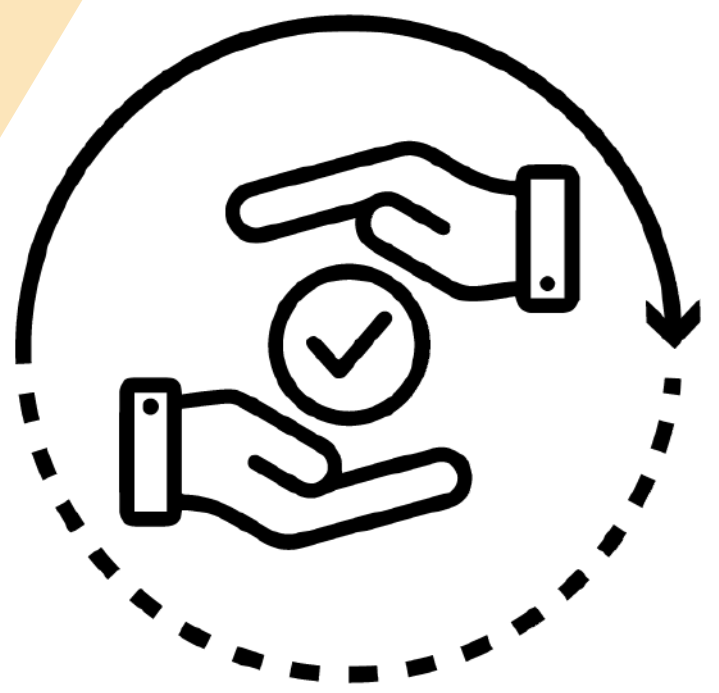


Our Commitment to Safety



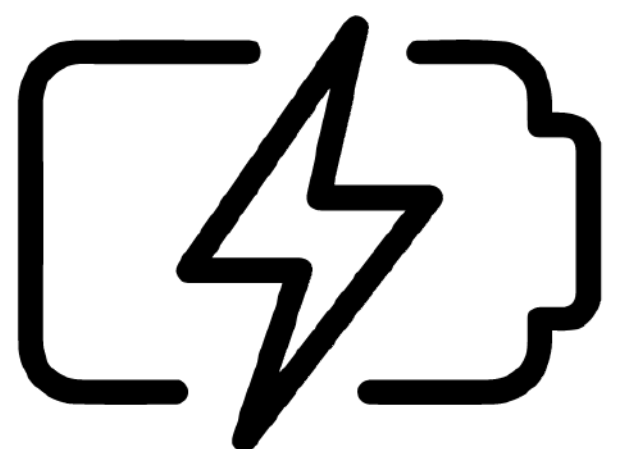
Tested and Qualified for Safety

- Facility designed to leading codes & standards, including National Fire Code of Canada, National Fire Protection Association 855, and Underwriters Laboratories 9540.
- Battery system tested under Underwriters Laboratories 9540A to ensure system would contain a potential fire event.



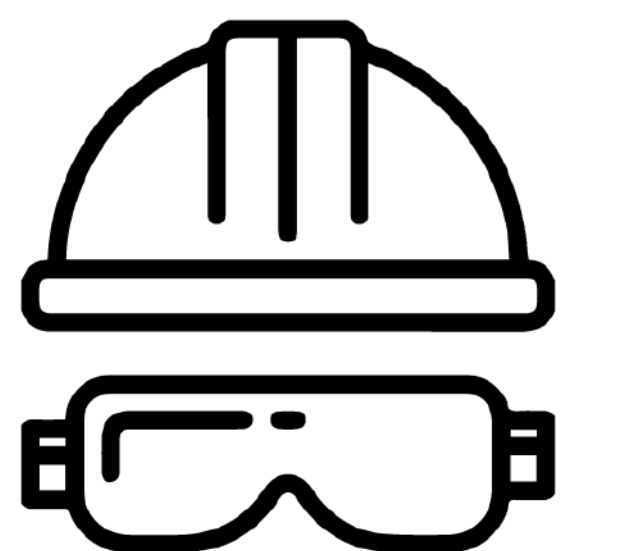
Resilient by Design

- Recent advances in battery systems significantly reduce fire risk compared to earlier systems.
- Hardware and software are designed with safety features to keep BESS operations within safe operating range.



Monitored During Operations

- Facility will be monitored 24/7 to ensure safe operations. Should a fault be detected, equipment would automatically be placed in a safe state.
- Comprehensive emergency response plan to be developed in conjunction with local Fire Department.



Project Facts



- Targeting up to **300 MW** of capacity
- Provide **peaking power** for up to eight hours at a time
- Utilize **stored, surplus electricity** during times of high demand
- **20-year contract** offered by IESO
- **Ability to co-locate** with existing infrastructure and other potential future technologies
- Target construction start: **2027**
- Target in-service: **2030**



Thank You for Attending



We value your feedback. If you have any comments or questions, please complete a comment form or speak to a member of the project team.

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