

NEOEN



Woodville Power Reserve Project

Community Open House

Wednesday, October 22, 2025
16:00 – 20:00

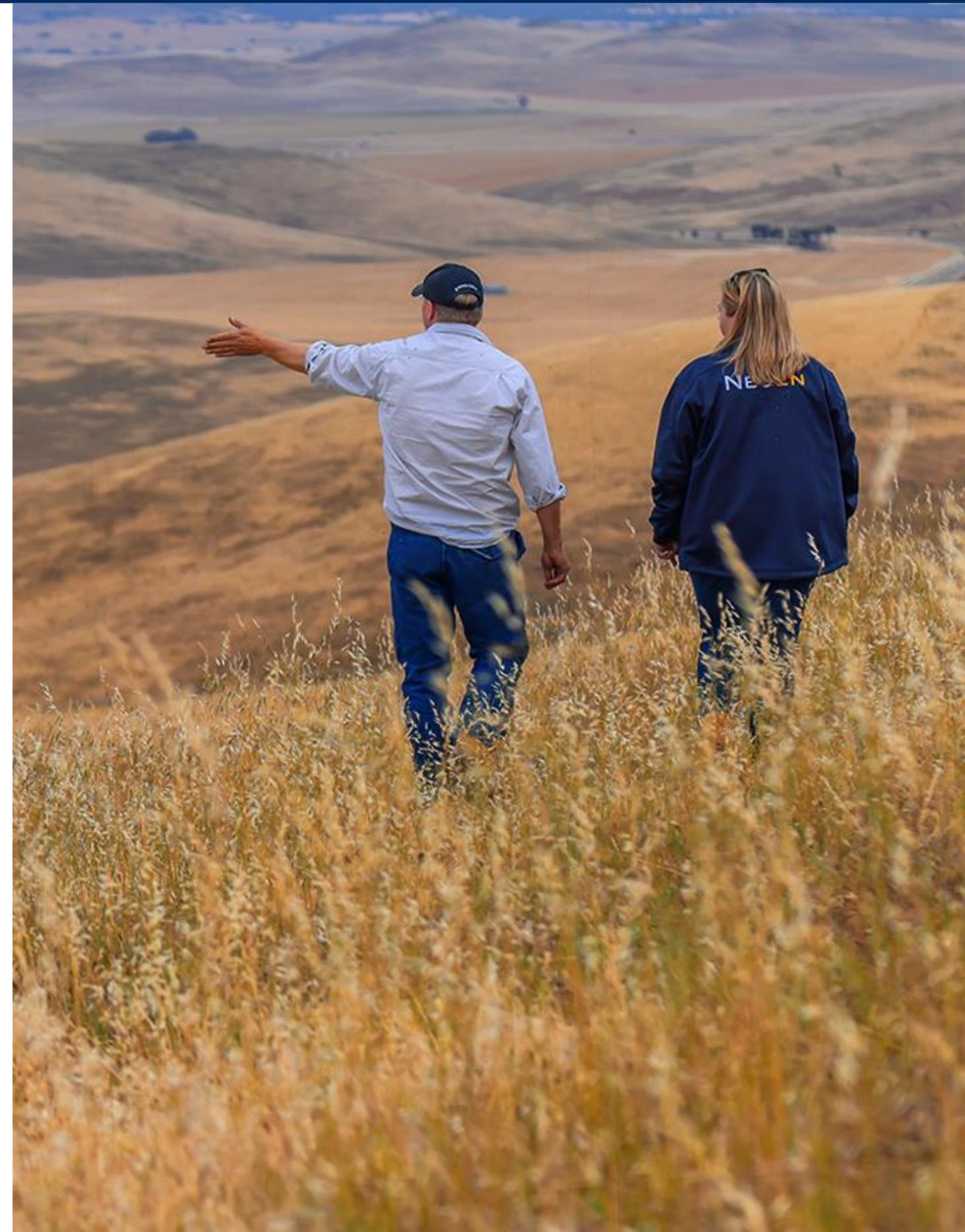
Land Acknowledgement

We respectfully acknowledge that the proposed project site is located on lands that the Michi Saagiig Anishinaabeg have inhabited and cared for since time immemorial.

These lands are the traditional and treaty territories of the Nations covered under the Williams Treaties, including the Mississaugas of Scugog Island First Nation, Alderville First Nation, Hiawatha First Nation, Curve Lake First Nation, and the Chippewa Nations of Georgina Island, Beausoleil, and Rama.

We recognize the enduring relationship that Indigenous Peoples have with these lands and waters, and honour their continued presence, stewardship, and rights.

We are committed to engaging in this work with respect, reciprocity, and responsibility, and acknowledge the importance of meaningful Indigenous participation in projects on their traditional territories.



About Neoen



Neoen is a leading independent power producer of exclusively renewable energy, with a global portfolio capacity of 8.9-gigawatts (GW) in operation or under construction across 14 countries.

Neoen delivered the world's first utility-scale battery energy storage system (BESS).

Our develop-to-own strategy means that we prioritize creating and fostering long term relationships within the community.

Our Americas Division is headquartered in Toronto, leading a development pipeline of over 1,000 MW across Canada.



Hiawatha First Nation & Mississaugas of Scugog Island First Nation

Neoen has engaged the **Williams Treaty First Nations (WTFN)**, leading to partnership discussions with Hiawatha First Nation and Mississaugas of Scugog Island First Nation (MSIFN). At their direction, Neoen is working with Zhaabaskatoon and Minogi Corporation to establish a partnership and submit the Woodville Energy Storage Project as an Indigenous project owned jointly by Hiawatha, MSIFN, other participating WTFN, and Neoen.



Pre-Confederation Treaties (1725-1867)
Map by: Muskoka Discovery Centre



Mississaugas of Scugog Island First Nation
Photo by: Shay Conroy

Where we operate



Woodville Power Reserve Project

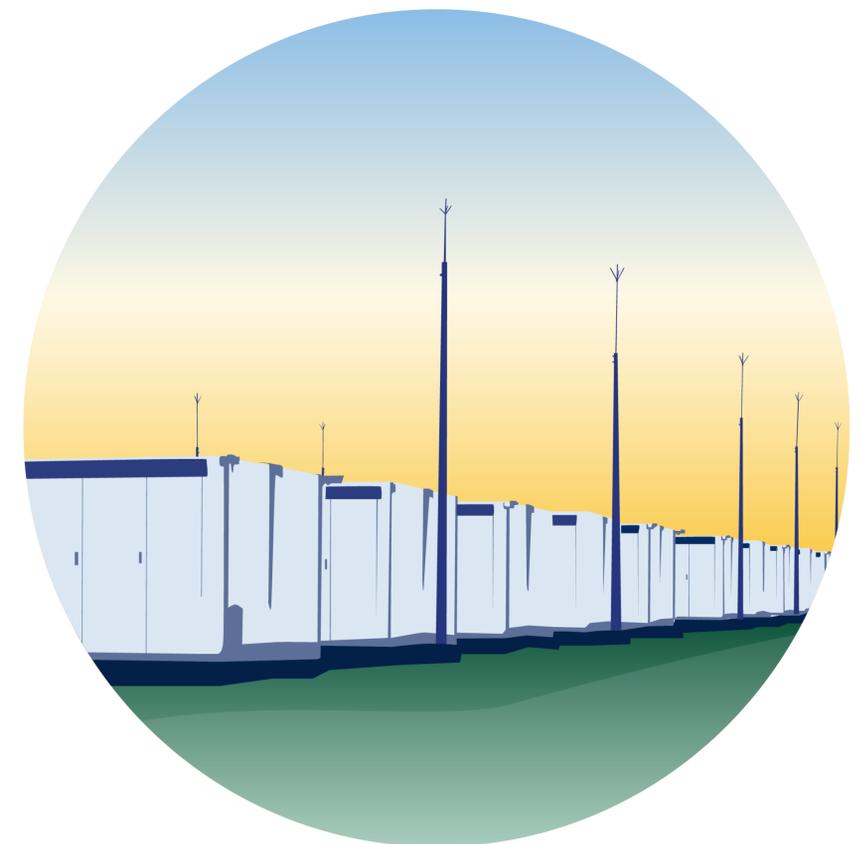
In November 2024, Ontario's Minister of Energy directed the Independent Electricity System Operator (IESO) to procure new resources to support the province's growing power system. IESO launched the Long-Term 2 RFP (LT2), Canada's largest ever energy procurement, offering 20-year contracts. Capacity proposals are due December 2025. **Ontario currently has 27 battery energy storage system (BESS) projects operational or under development.**

Woodville Power Reserve Project will help meet Ontario's and the Kawartha region's growing energy needs **by providing new capacity and reliability services**— as well as providing **voltage control** (minimizing stray voltage) and **resiliency improvements to reinforce the aging local grid.**

If approved, the proposed project would be operational by 2030, subject to the IESO determining the project to be best for Ontario ratepayers. For renewable projects of this nature and size, we will see:

- ✓ Minimal noise impact
- ✓ Minimal traffic when facility is operational
- ✓ Increased electricity supply and reliability
- ✓ Reduced chance for outages in the network

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



NEOEN Project Overview

Neoen is working with Williams Treaties First Nations, through Zhaabaskatoon and the Minogi Corporation, to develop the **Woodville Power Reserve Project as an Indigenous-owned venture**. Neoen is also currently engaging with the City of Kawartha Lakes staff to plan Community Engagement events and obtain a **Municipal Support Resolution (MSR)**

The project is in the feasibility stage and would consist of installing battery modules, additional power equipment, light civil, safety, and security infrastructure.

- ✔ Located on 6 acres of a 202-acre site on private land in Woodville, Ontario
- ✔ Annual local community contribution of approx. \$1,000 per MW per annum through a Community Benefit Agreement (CBA)
- ✔ Interconnects to the IESO using 230 kV circuit through the existing M81B Transmission line
- ✔ Adds up to 70 MW of capacity and 560 MWh of energy storage; deployed as required



NEOEN Meeting Ontario's Energy and Capacity Needs

- The proposed Energy Storage project would play a critical role in meeting Ontario's projected capacity needs
- According to the IESO's 2025 Annual Planning Outlook, electricity demand in Ontario is forecast to grow by 75% between 2025 and 2050
- This marks a substantial increase from previous forecasts, driven by Ontario's expanding industrial base, including:
 - EV supply chains
 - Data centers
 - Broader electrification trends across sectors
- Without BESS capacity installations, the province would have to rely on increased natural gas-fired generation

IESO'S ANNUAL PLANNING OUTLOOK (APRIL 2025)

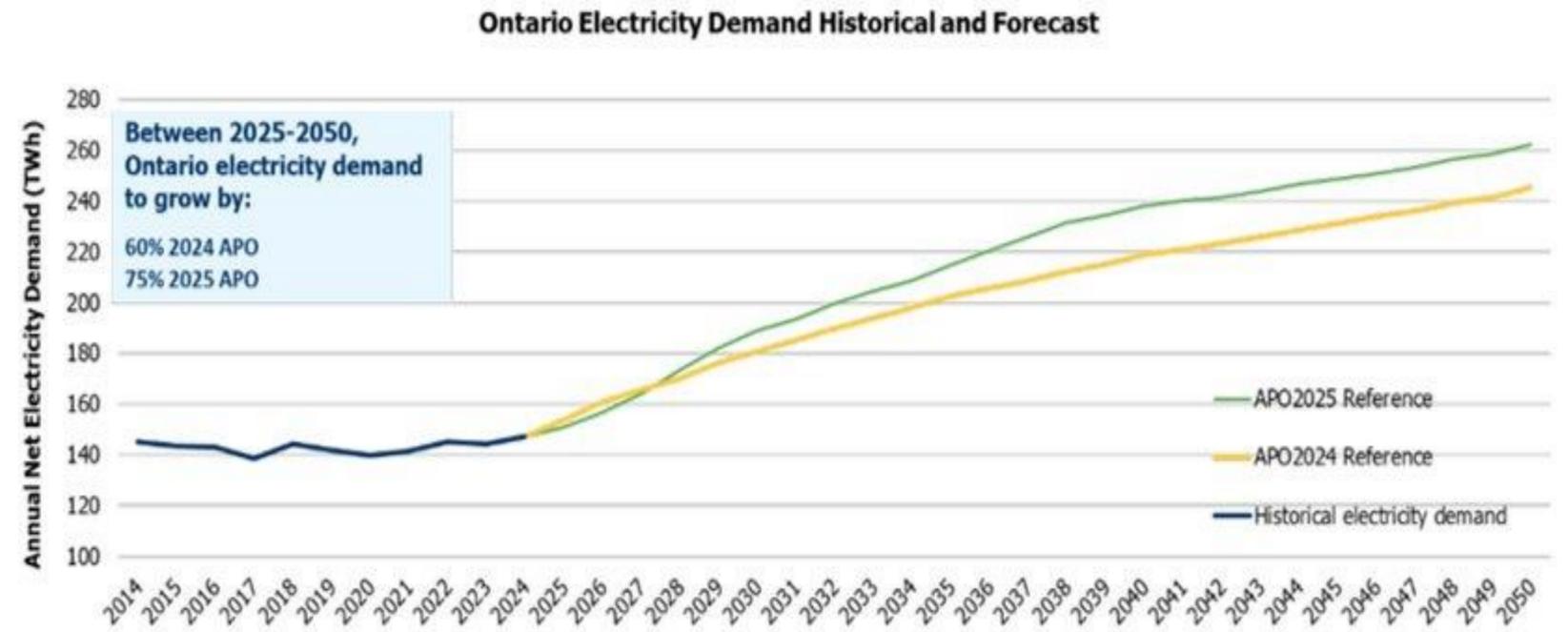
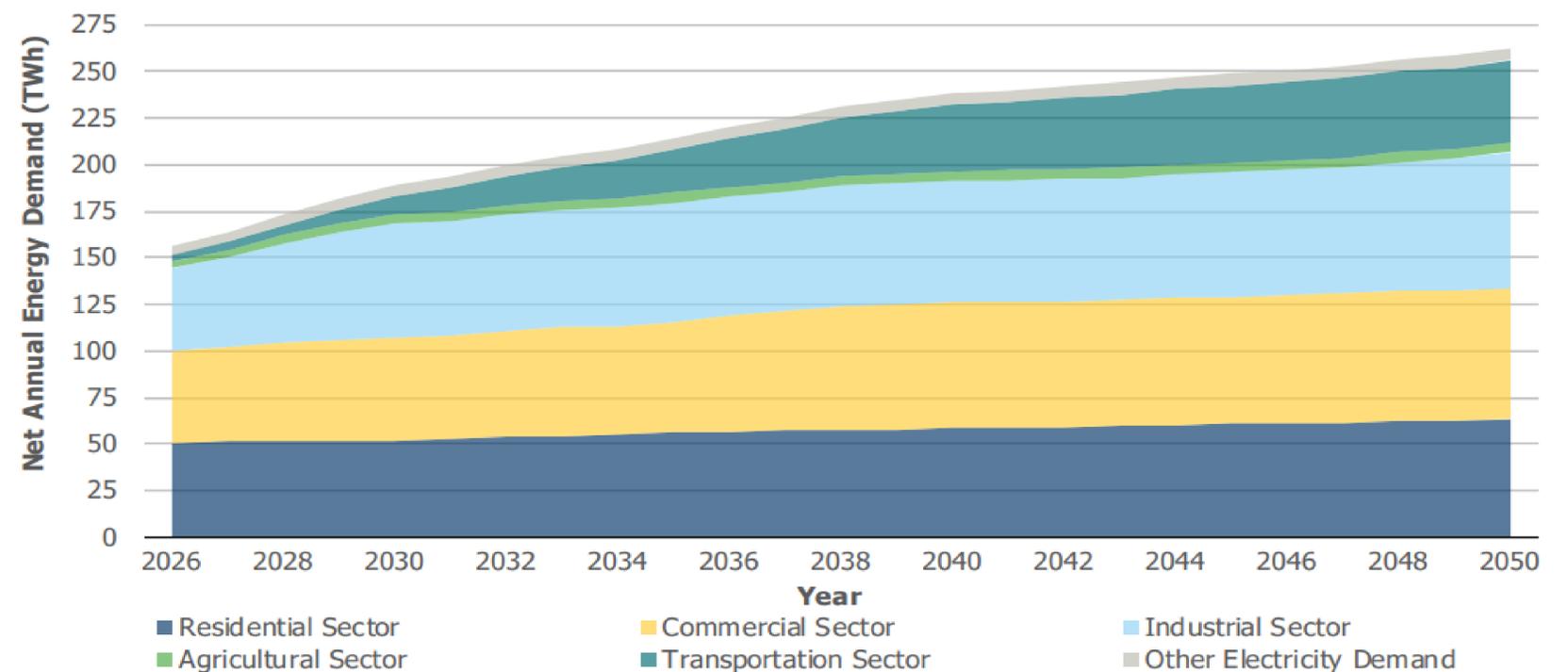


Figure 2 | Annual Energy Demand



NEOEN How a Battery Energy Storage System Works

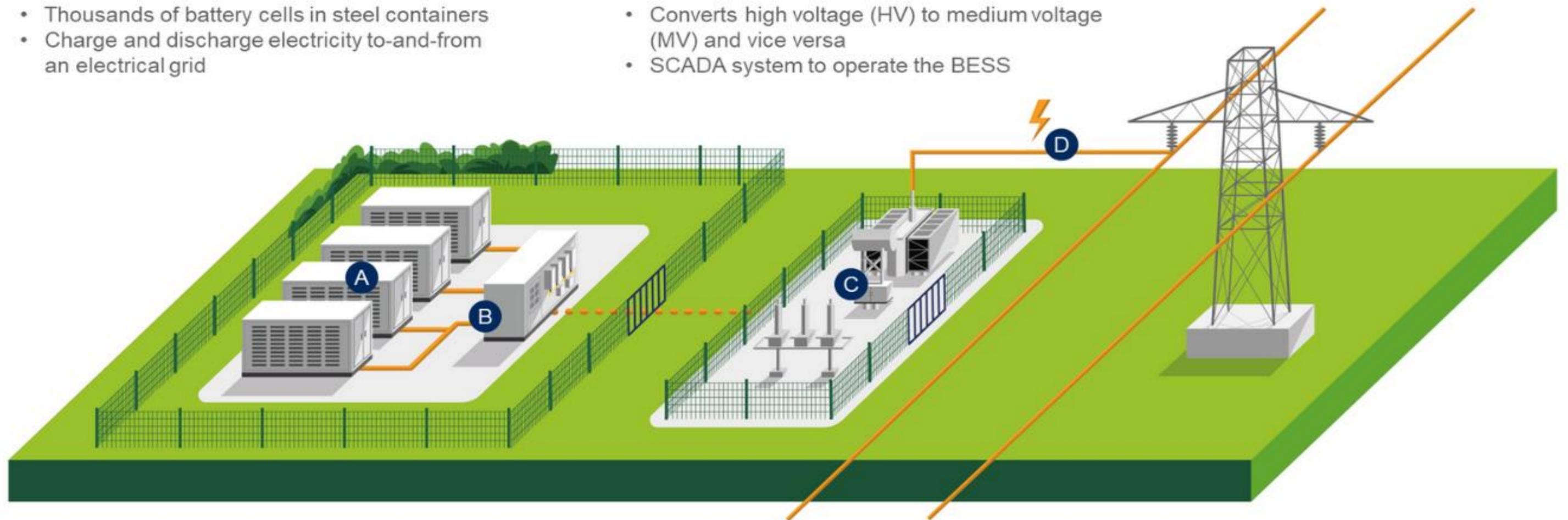
Energy storage will add grid capacity, enhance flexible grid operations and save greenhouse gas (GHG) emissions in Ontario by reducing the need for carbon-intensive power plants during times of peak demand.

A - Battery Containers

- Thousands of battery cells in steel containers
- Charge and discharge electricity to-and-from an electrical grid

C - Transformer Station

- Converts high voltage (HV) to medium voltage (MV) and vice versa
- SCADA system to operate the BESS



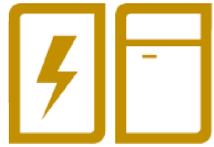
B - Inverter

- Converts direct current (DC) to alternating current (AC) and vice versa

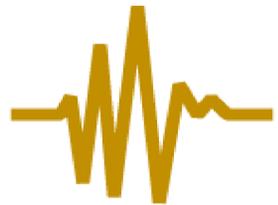
D - Transmission Lines

- Transmission lines move electricity to-and-from the BESS
- Steel structures hold the lines overhead
- Electricity travels to-and-from the grid

NEOEN BESS (Battery Energy Storage System) Services



Batteries provide a host of important services to improve the grid:



Frequency support: BESS can react in microseconds to stabilize the grid in real time, thereby preventing grid failures



In case of exceptional events such as sudden spike in demand in winter, batteries can support the network



BESS smoothens the intermittency of renewables. As more cheap renewable power comes on grid, BESS balance the production profile.



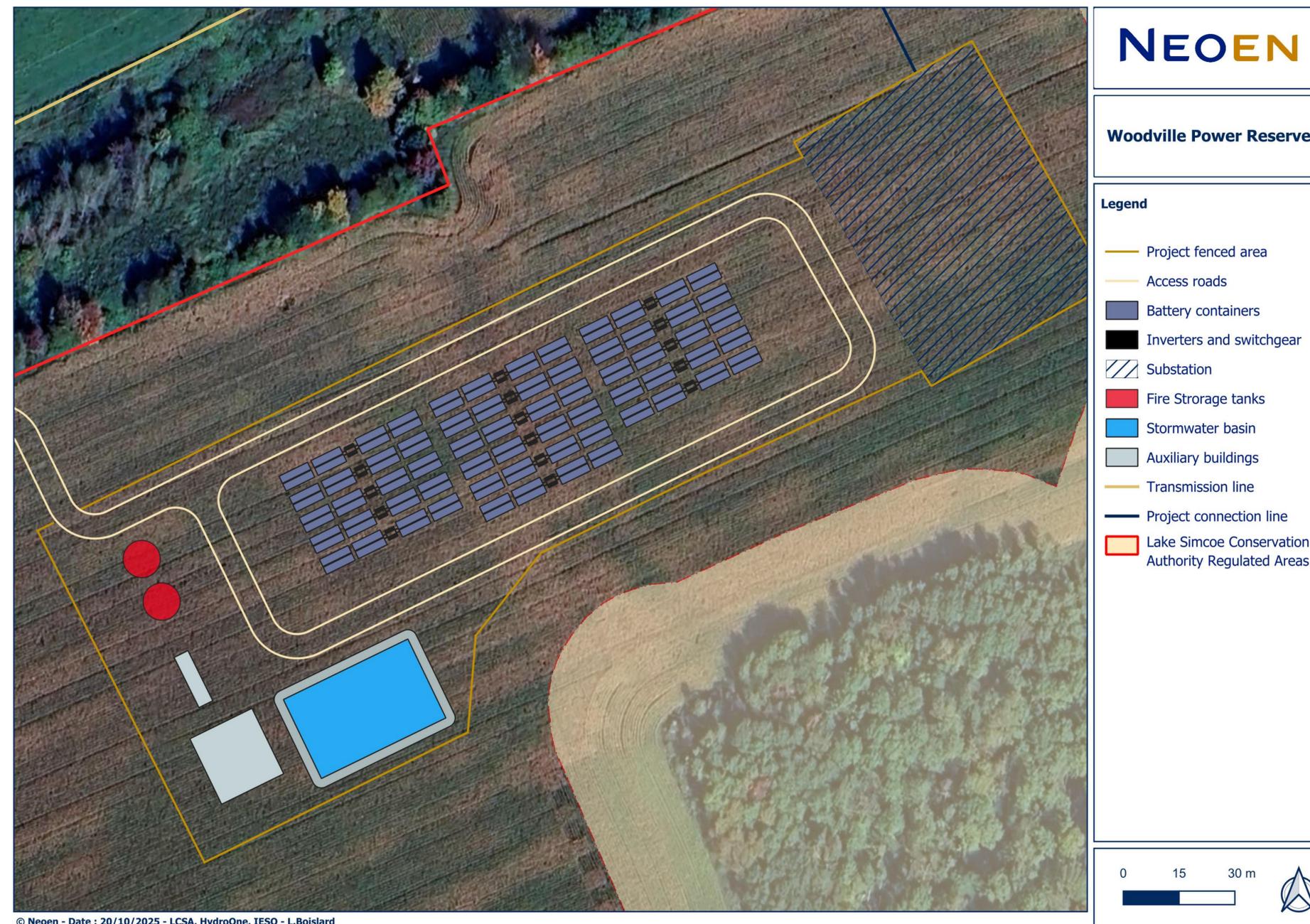
The Independent Electricity System Operator (IESO), responsible for managing Ontario's grid, is looking to procure 1,600 MW of capacity for the LT2 procurement, with proposal deadlines in October and December 2025.

NEOEN Project location

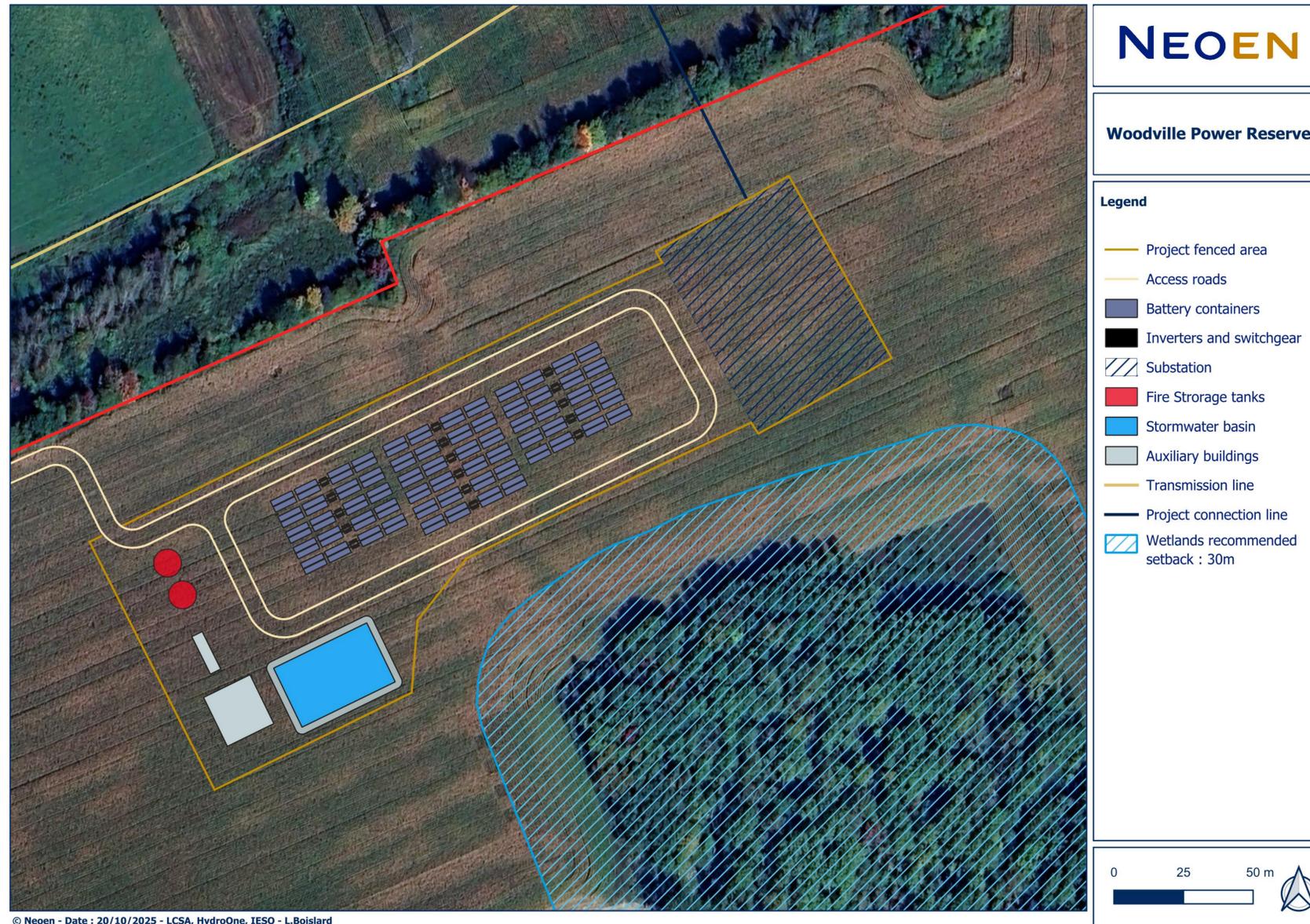


The project site is located at 25093 Simcoe Street, approximately 3km Northwest of Woodville.

NEOEN Proposed Layout



- Approx. 128 battery containers with built-in inverters and medium voltage equipment
- 230-kilovolt substation with 1 high voltage transformer and circuit breakers
- Operations and maintenance building
- Site access road off Simcoe Street
- Storage buildings and parking
- Total footprint of 6 acres, of which 2 acres would host containers



Meets Key BESS Requirements
transmission capacity, proximity,
landowner willingness, flat terrain,
accessibility, low environmental impact



Environmental Assessment

- No wetlands, waterbodies, or significant wildlife habitat within the project area
- Central woodland swamp is completely avoided
- All regulated areas avoided; 30 m setback maintained
- Natural heritage assessment has been completed
- Flood risk assessment completed : no flood risk

Site mapping shows how the BESS will avoid environmental features

NEOEN Our BESS Facilities

- BESS facilities charge from the grid overnight and then discharge that energy during the day
- Without BESS capacity installations, the province would have to rely on increased natural gas-fired generation
- Energy storage will add grid capacity, enhance flexible grid operations and lower greenhouse gas (GHG) emissions in Ontario by reducing the need for carbon-intensive power plants during times of peak demand.
- Use lithium iron phosphate batteries which have several advantages including:
 - High thermal stability + long life cycle
 - Increased energy storage capacity; ideal for rapid charge and discharge
 - Friendly to the environment; recycled at end-of-life
- Safety features that meet the National Fire Protection Association's (NFPA) standards for fire prevention, detection, and response in BESS's
- Protocols to prevent fires that include fire suppression technology, alarm systems, an emergency shut down feature, and containment systems.

ALBIREO POWER RESERVE, EL SALVADOR
(3.2MW / 2.2MWh)



Neoen is a leading independent producer of renewable energy and battery storage: facilities operating 18 battery projects totaling more than 2 GW.

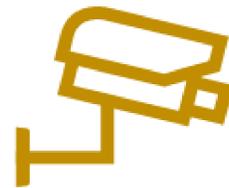
Our safety culture is exemplified by more than 15 years of development experience and operator of utility scale battery projects. Neoen has designed the Woodville Power Reserve with passive and active protection features to mitigate the environmental and operational risks.

Core Elements of Our Fire Safety Approach



Prevent

- Technology selection
- Safety certification
- Installation codes
- Testing for performance



Monitor

- Battery Management System (BMS) to monitor temperature, voltage, and more
- 24/7 staffed monitoring facility located in our Gatineau office
- Maintenance program to ensure adequate battery storage system health



Respond

- Fire response training and coordination
- Water is the preferred suppressant for firefighting
- Work with local first responders to ensure safe and effective response in case of an emergency



In consultation with the City of Kawartha Lakes Fire Services and industry experts, our project will incorporate the highest standard of safety, including:

Layers of Safety Features in a battery energy storage system (BESS):

- Battery management system
- Fire detection system
- Fire suppression system
- Explosion prevention system
- Explosion protection system

In the rare event of a fire, firefighting tactics focus on:

- Addressing immediate threats to occupants or responders
- Containing the fire and limiting damage
- Mitigating environmental impacts

Comprehensive Response Plans (CRP)

City of Kawartha Lakes Fire Rescue Service will develop location-specific emergency response plans based on the potential hazards specific to each site. These plans incorporate standardized response protocols addressing the unique risks associated with energy storage.

- Battery Management System (BMS) with built-in real-time control systems, including temperature and voltage monitoring, surveilled 24/7 by specialized engineers at the local Networks Operation Centre (NOC)
- Dry-pipe fire temperature suppression systems: Automated systems are integrated to reduce the potential for fire, and in case of an emergency, efforts focus on reducing exposure and preventing the spread of flames.
 - Fire hydrants
 - Ventilation panels
 - On-site reservoirs
 - Run-off containment systems
 - Constant environmental monitoring, including groundwater, air, and soil

NEOEN Lithium Iron Phosphate Safety Considerations

Neoen's preferred battery choice is Lithium Iron Phosphate Phosphate (LFP), which is the safest chemistry (LiFePO₄)

LFP batteries are more stable and thus present less risk of fire. The cell chemistry reduces the risk of thermal runaway, and in case of a cell short circuit, or even an unlikely defect like a puncture, an LFP cell will typically not catch fire. Due to oxygen being bonded tightly to the cathode material, reducing the ability of the cell to act as its own oxidizer, there is a little to no danger of the battery catching fire.

Table 2 and 3 depicts the thermal runaway responses of various cell chemistries. Table 4 shows energy released and the rates during thermal runaway event, from the calorimetry data presented.

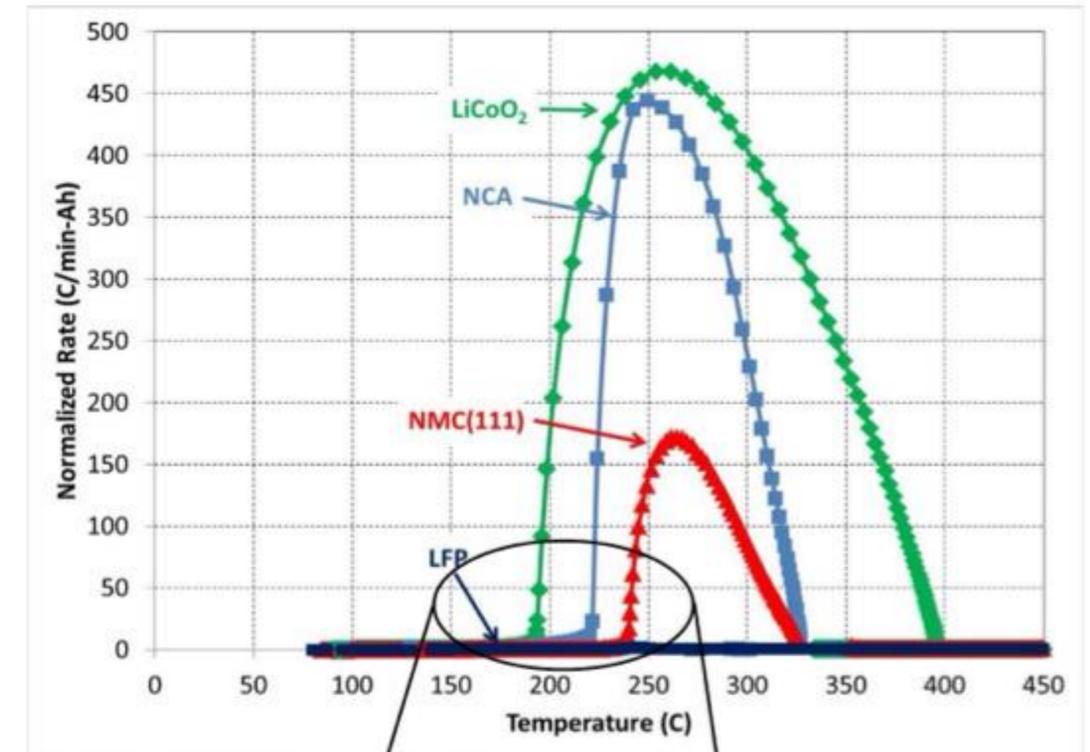
Table 4: Characterizing Thermal Runaway

Cell Type	Capacity (Ah)	Runaway Enthalpy (kJ/Ah)		Peak Heating Rate (W/Ah)
		Full Cell	High Rate Region	
LCO 18650	1.2	28.4	15.9	281
NCA 18650	1.0	21.6	9.8	266
NMC 18650	0.95	22.0	8.3	105
LFP 18650	0.9	18.0	2.4	1

https://www.fire.tc.faa.gov/pdf/systems/Oct14Meeting/Orendorff-1014-SNL_Overview.pdf

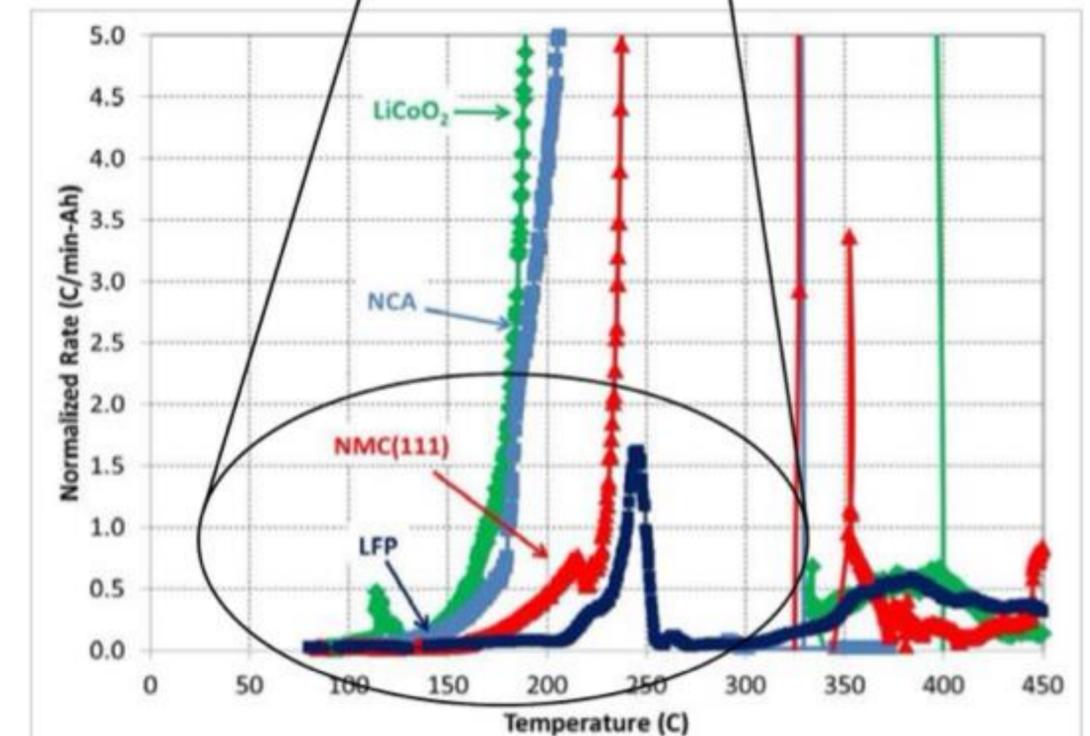
Information in this Appendix obtained from '06-Technical Note-Fire Prevention and Mitigation (10.26.2018)', PowinEnergy.

Table 2: Calorimetry of Lithium-ion Cells



https://www.fire.tc.faa.gov/pdf/systems/Oct14Meeting/Orendorff-1014-SNL_Overview.pdf

Table 3: Zoomed view of the thermal runaway reaction zone displayed in Table 2



https://www.fire.tc.faa.gov/pdf/systems/Oct14Meeting/Orendorff-1014-SNL_Overview.pdf

How is it being made safe?

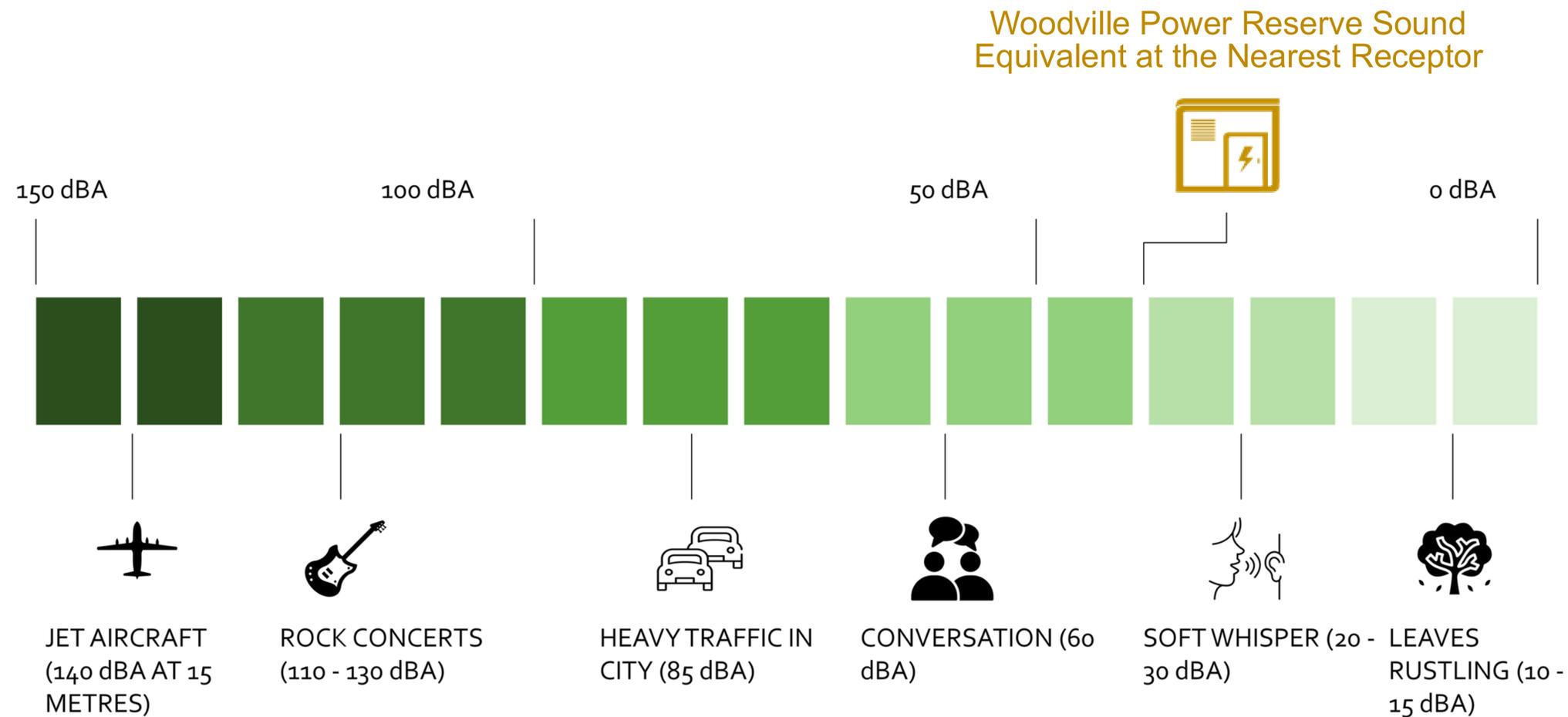
Adhering to all municipal, provincial, and federal permitting, we're working with the City of Kawartha Lakes Fire Services, industry experts, and local communities in the development of the proposed project. This includes fire safety management, community safeguards, and state-of-the-art equipment designed to reduce risk. The project will adhere to NFPA (National Fire Protection Association) 855, UL9540, UL9540A safety standards – protocols that ensure these project safety.

Have we considered the environmental impacts?

We are developing the project in partnership with the Hiawatha First Nation and the Mississaugas of Scugog Island First Nation, who have long been stewards of this land and the surrounding environment. We are going through all the necessary federal, provincial, and municipal permits. This includes but is not limited to an Environmental Assessment, Endangered Species Assessment, Noise Assessment, Archaeology Clearance, Site Plan, and more.

Have we researched the impacts on groundwater contamination?

Before any construction, we conduct all the proper studies and put in place stringent safeguards above industry standards to mitigate any risk of contamination. Due to industry safeguards across North America, there has never been an impact on groundwater from a BESS installation.



- Fans inside of the battery containers and transformers generate noise.
- Neoen conducted a Noise Study to determine the impact of noise generated by Woodville BESS to surrounding dwellings.
- At the nearest dwelling, noise generated from Woodville BESS must not exceed 40 decibels — a noise level equivalent to a restaurant refrigerator
- The preferred site can accommodate a BESS facility with a minimum of 400m from a sensitive noise receptor, including the residential dwelling on-site and surrounding residential dwellings.

NEOEN Local Project Benefits

Lasting Value for the Community: +\$2M over 20 years



**\$70,000 annual
Community
Benefits Fund**

- Funds local priorities as identified in CKL 2025-2029 Economic Development Strategy
- Alternatively, funds may be committed to Municipal budget



**Up to \$60,000
in municipal tax
revenues**

- Neoen will enter into a Community Benefits Agreement with the CKL
- The Planning Act permits a host municipality to apply a 4% Community Benefits Charge of land value



**Benefit-sharing
with neighbours**

- For residential neighbours in the immediate project area



**Over 200 Jobs +
Local Opportunities**

- 200 skilled and general labour during construction
- Up to 10 long-term operational jobs
- Supplier and service contracts for local businesses



**Community Art,
Heritage & Nature**

- A public art installation or refurbishment of heritage sites, co-designed with the community
- Potential for investments in biodiversity and ag-land improvements

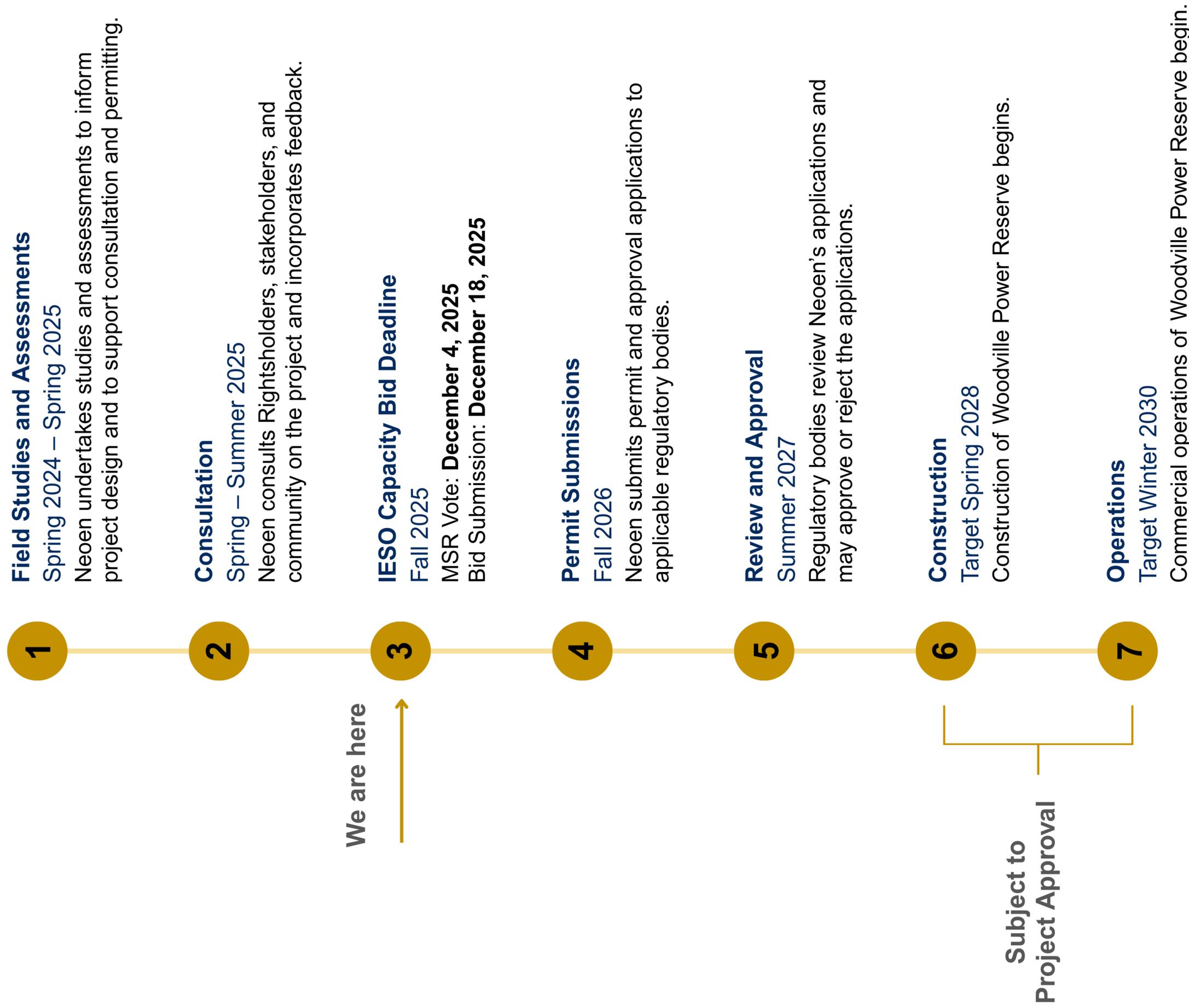


**Potential for Provincial
Funding Streams**

- Strong competitiveness for \$2.6bn Skills Development Fund (SDF) to train-up local labour
- Support road and bridge upgrades through \$400m Ontario Community Infrastructure Fund (OCIF)

Neoen welcomes feedback on its community benefits plan

NEOEN Project Timeline



Project Development Milestones

1. Land Use Review

City Of Kawartha Lakes Pre-consultation has been completed
Agricultural Impact Assessment (AIA) Component 1 submitted

2. Natural Heritage Review

Natural heritage assessment has been completed
Hydrology flood risk assessment has been completed

3. Noise Impact Review

Noise impact study has been completed

4. Archeology Review

Consulting with local First Nations

5. Community Engagement

On-going through end of project life

6. Class Environmental Assessment (EA)

To commence after contract award



NEOEN Battery Storage System Operations

CAPITAL BATTERY, AUSTRALIA (100 MW / 200 MWh)



Once operational, a battery typically completes one charge and discharge cycle per day.

A crew of approximately 2-10 workers, contracted by Neoen, will operate Woodville Power Reserve.

Permanent fencing will enclose the battery storage facility. Site lighting and security cameras will be installed. Site lighting will be designed to avoid nighttime light pollution.



Did you know that Neoen is a pioneer in battery energy storage? Neoen delivered the world's first utility scale battery, Hornsdale Power Reserve, located in South Australia.

COLLIE BATTERY, AUSTRALIA
(219 MW / 877 MWh)



ISBILLEN POWER RESERVE, SWEDEN
(93.9 MW / 93.9 MWh)



NEOEN We want to hear from you!

- The consultation period for Woodville Power Reserve will continue through Fall 2025
- Neoen is consulting Rightsholders, stakeholders, landowners, occupants and residents in the immediate vicinity of the project, and the broader community
- Feedback gathered during the consultation period will form part of a public consultation record that will be included in Neoen's IESO application



We want to hear from you!

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