# Grid-Scale Batteries

Spider Lake Road, Waverley

Nova Scotia POWER
An Emera Company

POWERING A GREEN
NOVA SCOTIA, TOGETHER

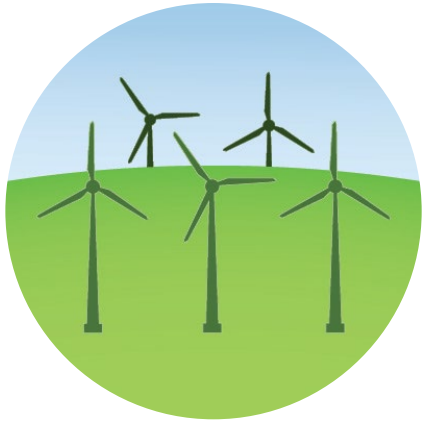
# Enabling a Clean Energy Transition

Through the Integrated Resources Planning process, we know that a mix of energy solutions will be required in order to achieve government's environmental targets by 2030, including 80% renewable electricity and the closure of coal units.

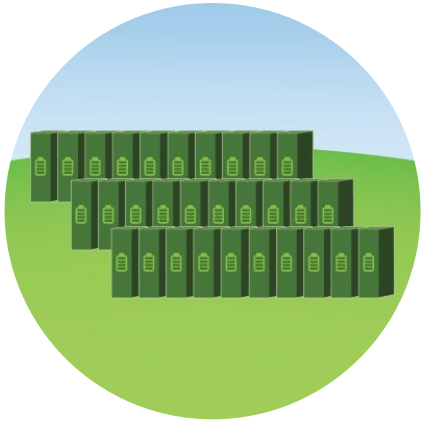
In July 2022, the Federal Government announced an investment of up to $130 million for Nova Scotia Power to install batteries in the province.

**Grid-Scale Battery projects, like the one we're proposing in your community, will support this transition and enable the integration of new renewables as well as strengthen our grid.**

**Transmission**



**Wind**



**Batteries**

# The Benefits of Batteries

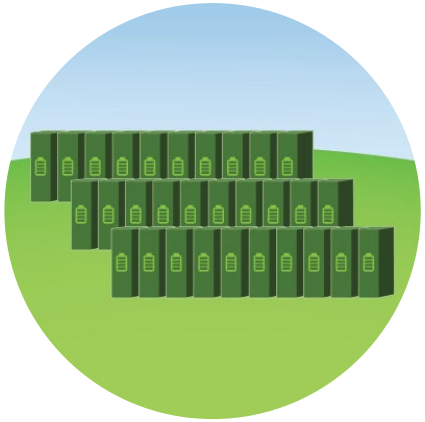
**Batteries and other energy storage technologies are essential in our clean energy transition.**

This project will provide environmental benefits locally and for all Nova Scotians, including;

- Fast response to unplanned grid disturbances
- Safe, reliable, clean energy during peak demand
- Opportunity to introduce and enable more renewable energy

# Current planning

- Potential sites identified;
  - Bridgewater
  - Kings County
  - HRM
- A request for proposals was sent to battery vendors
  - Following Bill 212, this process was paused
  - We have since re-engaged with vendors and are evaluating updated proposals
- Community, Stakeholder, and Mi'kmaw Engagement is planned and will continue throughout the project, including hosting Open Houses in each community.
- Planning work in progress with proposed construction activity starting in 2024 and continuing through to 2026.



**Batteries**

# Spider Lake Road, Waverley

# Why this location

**This proposed Grid–Battery Project is located on Spider Lake Road, adjacent to an existing substation.**

This location was chosen because:

- The site is adjacent to 138 kV transmission lines, necessary to transport electricity
- It is near a substation, necessary to convert distributed electricity to different voltages
- Its location allows for distribution across the province for grid and localized community benefits.

This site was chosen as a battery location as it is ideally situated to provide capacity and balance the energy system for the province.

# Safety and Environment

**Safety is our first priority in project design, construction, and operation of future grid battery facilities.**

- NS Power will ensure that all aspects of the design and construction meet the highest of safety standards.  All material and equipment specifications, industry design codes, and construction activities will meet or exceed industry practice.
- Our environmental team is completing reviews of the potential project locations to identify and mitigate any possible local environmental considerations.
- Monitored 24/7 centrally from our energy control centre.
- Fire prevention is a component of the design of battery facilities and NS Power is engaging subject matter experts in fire suppression system design review and evaluation.

# Community & Economic Impact

- All aspects of the design and construction will meet the highest of safety standards.
- All material and equipment specifications, industry design codes, and construction activities will meet or exceed industry practice.
- The project will provide employment for Nova Scotians and opportunities for business in Nova Scotia through:
  - Preliminary design work and field investigations
  - Construction activities such as tree clearing, site preparations, foundations, and battery installation.
  - Related requirements such as meals and accommodations, security monitoring, transportation, and delivery
- Community and Stakeholder Engagement will continue throughout the project, including hosting Open Houses in each community and engaging local youth

# Typical Battery Facility

# Typical Battery Facility

# Typical Battery Facility

**We'd love to hear from you!**

Stay connected on this project and share your questions, comments or concerns. Contact:

- **Susan Smith, Stakeholder Lead** at susan.smith@nspower.ca or 902-399-4763

*or*

- Email CleanEnergyFuture@nspower.ca