



## WELCOME TO THE BARLEY ENERGY STORAGE PUBLIC COMMUNITY MEETING

Renewable Energy Systems Canada Inc. (RES) is pleased to welcome you to our community drop-in meeting for the Barley Energy Storage project (the Project).

Meet the team, learn more about the proposed Project and get answers to your questions!

Please fill out a feedback form before you leave.



## OUR VISION

*To be a leader in the transition to a future  
where everyone has access to affordable zero carbon energy*



RES Group Headquarters - Kings Langley (UK)

The RES Group was founded in 1982 in London (UK) and is privately owned by the McAlpine family.

Sir Robert McAlpine began a construction business over 150 years ago. The company is still owned by the family today.

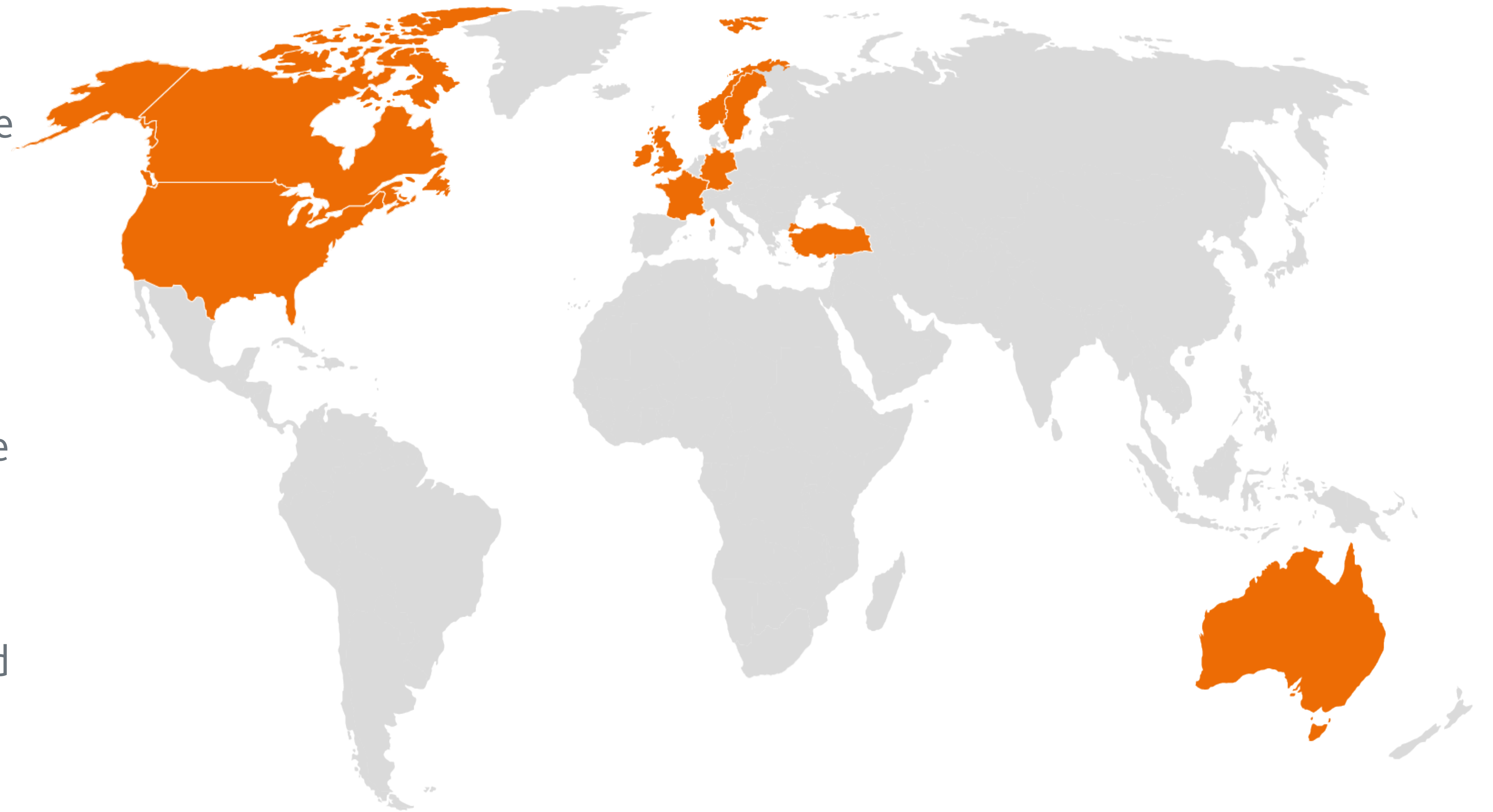
Our Canadian business was founded in 2003 and is headquartered in Montreal.



RES Group is the world's largest independent renewable energy company. At the forefront of the industry for 40 years, RES has delivered more than 23GW of renewable energy projects across the globe and supports an operational asset portfolio exceeding 9GW worldwide for a large client base.

To date, we have developed or constructed more than 20 energy storage projects representing approximately 500MW of capacity.

RES Group employs more than 2,000 people and is active in 11 countries working across onshore and offshore wind, solar, energy storage and transmission and distribution.



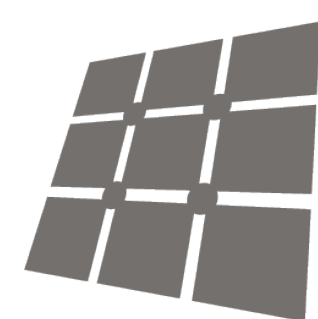
**23** GW PORTFOLIO

**40** YEARS OF EXPERIENCE

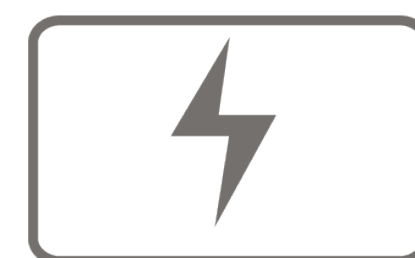
**9** GW ASSETS



WIND



SOLAR



STORAGE



T&D



# WHY RES IS PROPOSING THIS PROJECT



The Independent Electricity System Operator (IESO) is charged with operating Ontario's electric grid.

To safely, affordably, and reliably operate the electric system, the IESO occasionally procures electricity supply through competitive procurement processes or Requests for Proposals (RFP). The IESO equally has the responsibility of procuring and enabling more renewable and clean energy.

Utility-scale energy storage systems have been identified as a technology that can help the IESO meet each of these objectives.

According to the *IESO 2021 Annual Planning Outlook*, the Province's electric system is facing:

- Increasing electricity demand due to the electrification of certain sectors, population and industrial growth;
- Reduced electricity supply stemming from the retirement of nuclear capacity and expiring oil/gas generation contracts.

The IESO is therefore contracting approximately 4GW of additional capacity to meet this fast-emerging gap through two RFP processes:

- The ongoing 1.5GW Expedited Long-Term RFP (the E-LT1) for projects to achieve operation in 2025;
- A 2.5GW Long-Term RFP (the LT1) for projects to commence operation commencing in 2027.

RES seeks to respond to both RFPs with this proposed energy storage project.



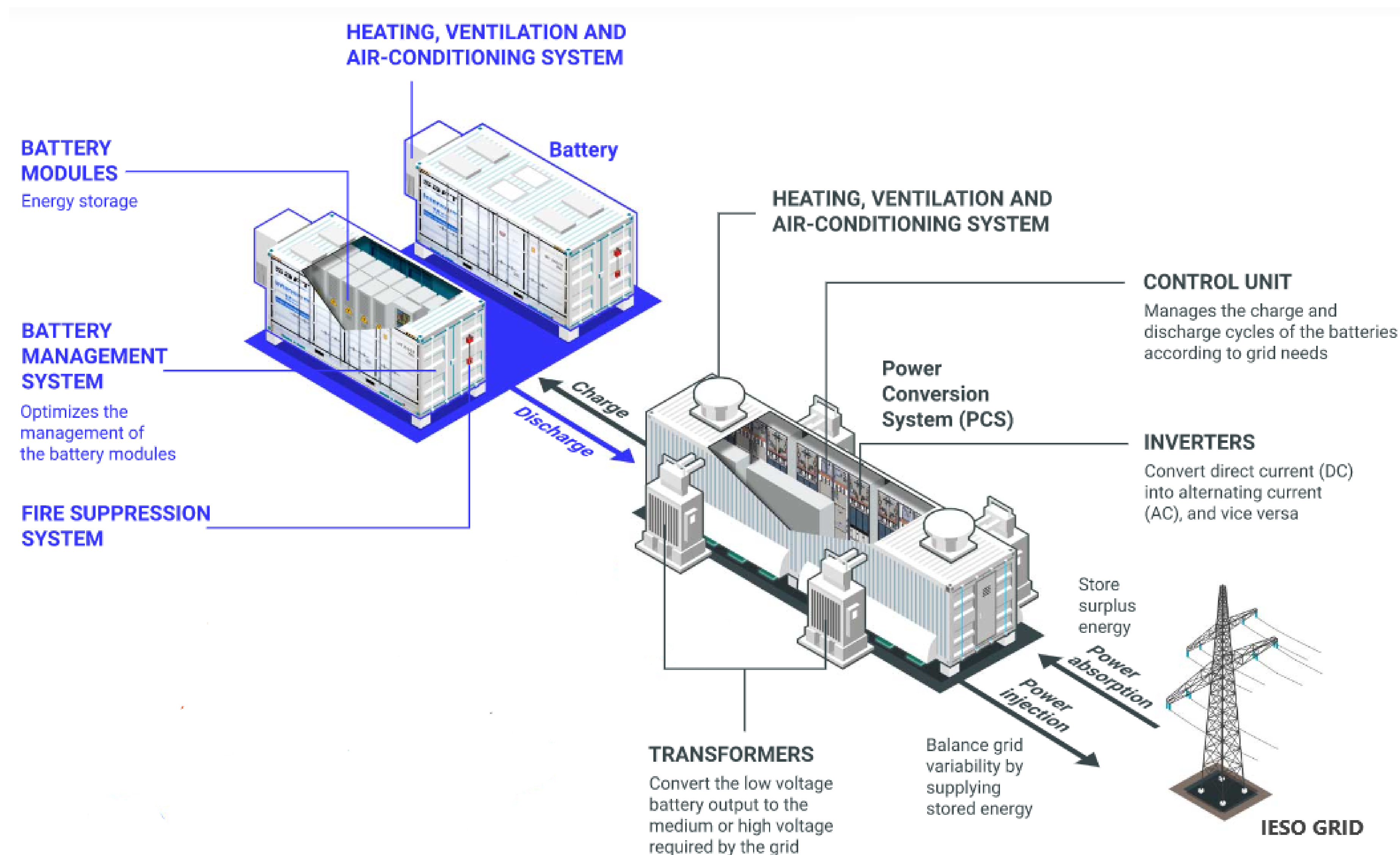
# BATTERY ENERGY STORAGE SYSTEMS

## What is a Battery Energy Storage System (BESS)?

At its core, a BESS works by storing electric energy at times when generation exceeds demand. The stored energy can then be drawn upon by the Ontario Independent Electric System Operator (the “IESO”) when needed.

A BESS consists of numerous, interconnected, containerized batteries. The batteries are managed and operated as a single unit with the integration of several other key technologies and electrical components.

A fully fenced facility, the BESS would be interconnected with the Ontario transmission system.





# COMMUNITY BENEFITS



We believe our projects must present net positives for the local communities in which we work. Some of these benefits include:

- ✓ A commitment to make annual payments to a local vibrancy fund
- ✓ Municipal tax revenues
- ✓ Construction and operations jobs
- ✓ Contract opportunities for local businesses
- ✓ Increased local spending on goods and services during the Project's development, construction, and operational phases



# REGULATORY APPROVALS

If awarded an IESO contract, various permits and approvals will be needed before the Barley Energy Storage Project can proceed. These are expected to include:

Class Environmental  
Assessment for Minor  
Transmission Facilities



Environmental  
Compliance Approvals



Archaeological  
Clearance



Local & Municipal  
Approvals



These regulatory processes will include **consultation and engagement** with Indigenous communities, key stakeholders, and interested members of the public.

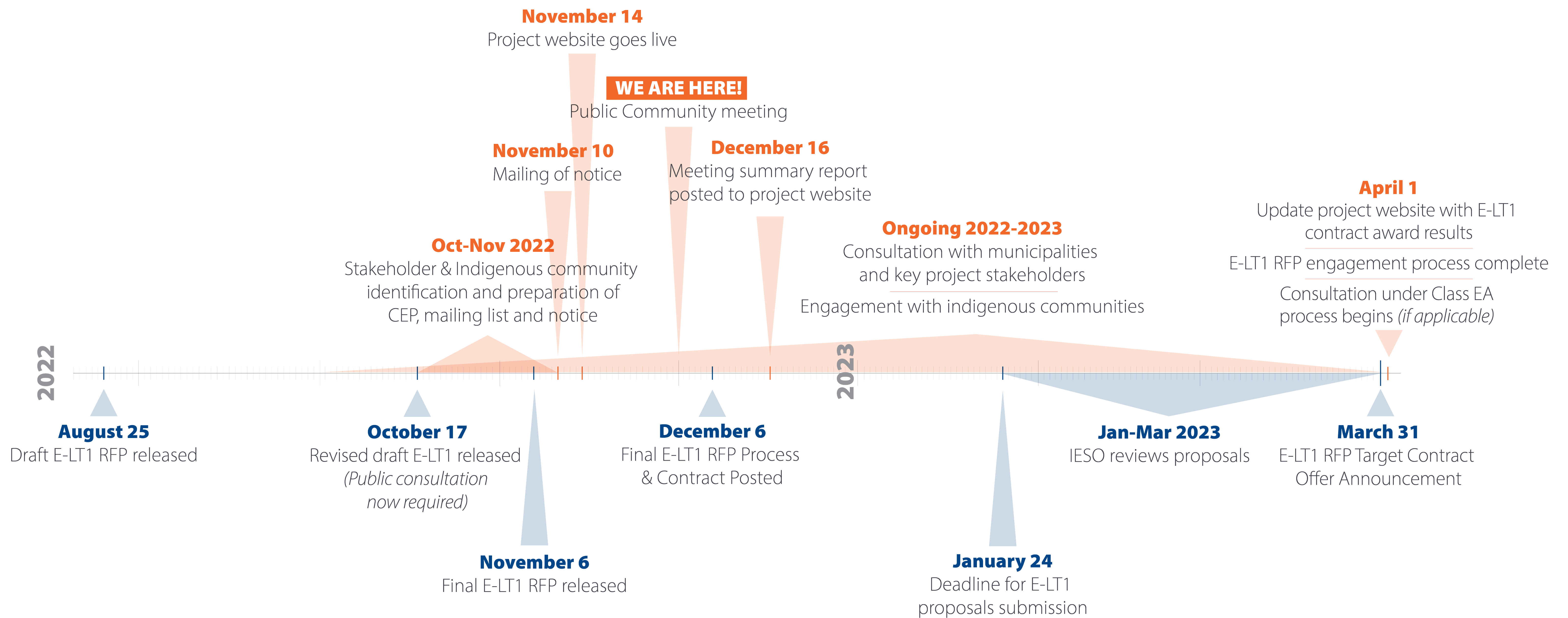


# PROPOSED PROJECT LOCATION





# PROJECT TIMELINE





To create a Project that **makes a net positive contribution to society and the environment** and to support regulatory processes, RES will identify local features that may require protection, mitigation and management:



**Terrestrial and Aquatic Ecology** including Species at Risk



**Noise** including modelling potential impacts and required mitigation



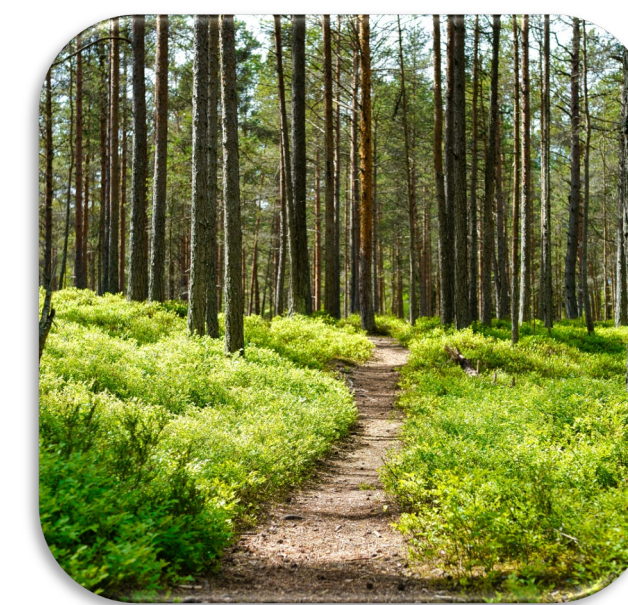
**Agriculture** including capability and productivity



**Cultural Heritage** including archaeological resources, built heritage resources and cultural heritage landscapes



**Stormwater Management Planning** to control water quality and potential discharge of runoff from the site



**Visual and Aesthetic Resources** to consider changes to the appearance of the local landscape



**Land Use Planning** to align with provincial and municipal land use policies and zoning by-laws



**Human Settlements and Recreational Resources** to consider how and where the local community lives, works and plays

# THANK YOU!

For additional information, please contact :

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