



Proposed Bolsover Storage Project

Municipal Council of City of Kawartha Lakes

January 10, 2023



Solar



Hydro



Wind



Storage

About Us

BluEarth Renewables is a leading independent power producer that acquires, develops, builds, owns and operates wind, hydro and solar facilities across North America

Our portfolio is well diversified across technologies and geographies, with over 1 GW in operation and under construction

- Founded in 2010
- Over 25 years of development experience
- Our team spans development, permitting, regulatory, financing, engineering, construction, and self-perform operations and maintenance
- Owned by DIF Capital Partners



EMPLOYER
PARTNER

Our Portfolio

★ Office ● Operating ● Construction ○ Development ● Hydro ● Wind ● Solar ● Storage

Highlights

3 Offices in Canada
1 Office in Arizona

150 Employees
(~45% Operations)

BluEarth 24/7 Remote
Operations Centre


160 MW
Wind in Operation (gross)


234 MW
Solar in Operation (gross)


120 MW
Hydro in Operation (gross)


490 MW
Under Construction +
Contracted


5+ GW
In Development

Ontario IESO Procurement Overview

Electricity demand drivers

- Rapid growth in mining, greenhouse, and industrial sectors
- Retirement of the Pickering nuclear plant, and expiring contracts
- Refurbishment of other nuclear generating facilities
- Electricity supply shortfall projected between 2025 to 2027

IESO (Independent Electricity System Operator) Procurements

- Three competitive procurements have been announced to increase Ontario's electricity supply with a target of adding 4,000 MW of capacity by 2027
- Up to 2,500 MW of this capacity is designated for storage
- BluEarth has qualified for and is participating in the Expedited Process (E-LT1) and Long-Term 1 Process (LT1) procurements.

1. Same Technology Upgrades

- 300 MW by 2025

2. Expedited Process (E-LT1)

- 1,500 MW by 2025
- Approximately 900 MW of energy storage
- Up to 600 MW of natural gas generation

3. Long-Term 1 (LT1)

- 2,200 MW by 2027
- Approximately 1,600 MW of energy storage
- Up to 600 MW of natural gas generation

Project Overview

Location	City of Kawartha Lakes Approximately 10 km from Bolsover Co-located with Goodlight Solar
Storage capacity	Up to 150 MW / 600 MWh Capacity for up to 4 hours
Technology	Battery energy storage system Lithium Iron Phosphate (LFP)
Schedule	Pending selection from the IESO the target in-service date is May 2026, contracted until 2047
Local Benefits	Employment opportunities, indirect revenue to the municipality in the form of local services and supplies, and increased tax revenue for the project life



Planning Activity To-Date

Location	Co-located with Goodlight Solar with site control agreement in place on the parcel where the development is proposed
Facility Layout & Design	- Buildable development area identified - Concept site layout and 10% engineering
Procurement	- Preliminary battery supplier designs and estimates - Consultation with engineering, procurement, and construction contractors
Regulatory and Environmental	- Desktop environmental review, analysis, and constraints mapping - Approximately 8 acres of buildable development area identified through constraints analysis - Regulatory road map including permit matrix, schedule, and fieldwork reporting requirements - Preliminary noise modeling and analysis
Stakeholder Engagement	- Engagement session held with City of Kawartha Lakes municipal staff - Hosted public town hall event on November 22, 2022, to introduce the proposed development
Partnership	Negotiating a partnership with indigenous partner





Community Benefits

- **Employment:** Temporary construction jobs and permanent jobs associated with operation and maintenance.
- **New Investment:** Local services and supplies, fuel, accommodation, meals and supplies for employees, construction personnel, and contractors who will spend time in local communities.
- **Municipal Tax Revenues:** Annual tax revenue for the life of the project without an increased demand on municipal services or public works such as sewer and water upgrades.
- **Grid Reliability:** Energy storage adds reliability and stability to the local electrical grid.

Community Engagement

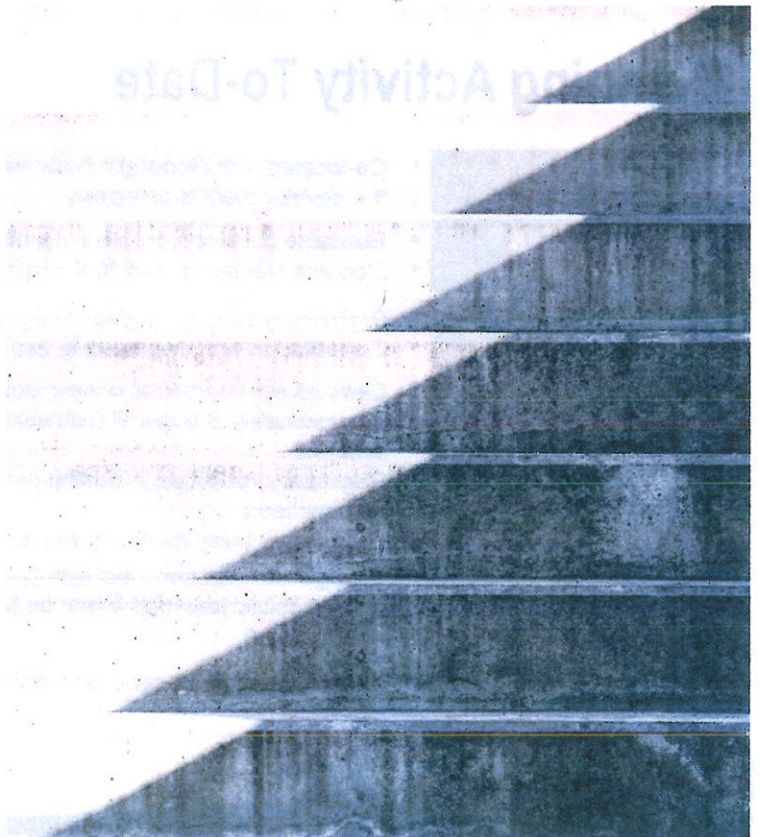
- **Project Website:** You can find more information about the project on our project specific website: <https://blueearthrenewables.com/projects/bolsover-storage-project/>
- **Public Community Meeting:** We hosted a community meeting in Bolsover on November 22 for the public to learn more about the project and meet our development team.
- **Indigenous Partnership:** We are working with local Indigenous groups that support the project to form a partnership.
- **Municipal Support:** The project is seeking a municipal support resolution prior to proposal submission in February 2023.

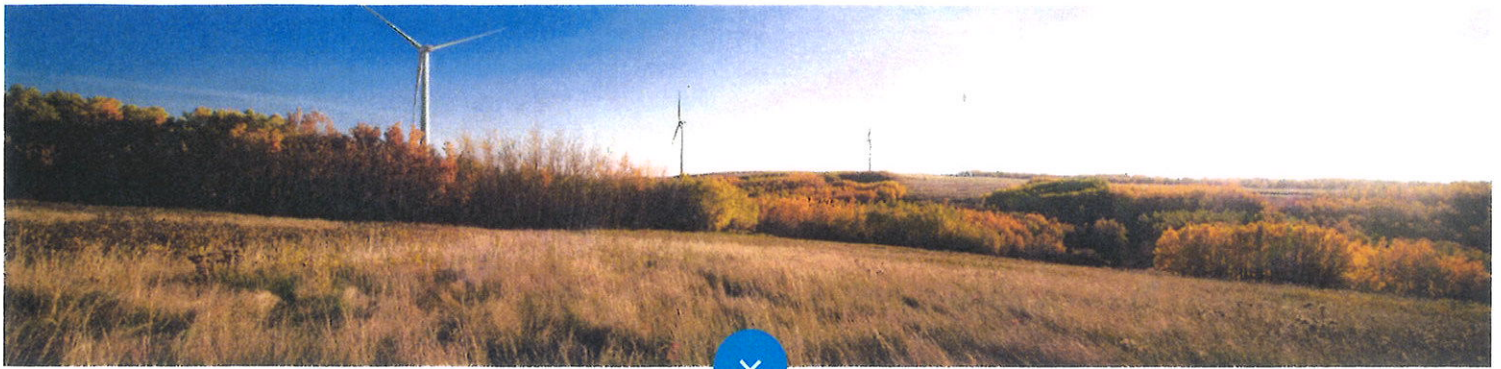


Next Steps

- Continue engagement with local stakeholders and encourage written feedback through email sent to projects@blueearth.ca.
- Provide regular updates on the project website.
- Continue work with Indigenous groups that support the project to form a partnership agreement.
- Advance development in preparation for proposal submission to the IESO on February 16, 2023.
- The IESO will provide the results of the procurement in May 2023.

<https://blueearthrenewables.com/projects/bolsover-storage-project/>





We bring together extraordinary people with the
Power to Change THE FUTURE™

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