



WELCOME TO THE BEAVERTON ENERGY STORAGE COMMUNITY MEETING

Thank you for attending our Open House. We are happy to share information about this clean energy project with you. We invite you to view the display boards, speak to members of the wpd team and complete a questionnaire providing your questions and comments

Project Name Beaverton BESS
Project Type: Battery Storage System
Project Capacity 100MW

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Project Proponent: wpd Renewable Energy & Incorporated
Qualified Applicant: wpd GmbH



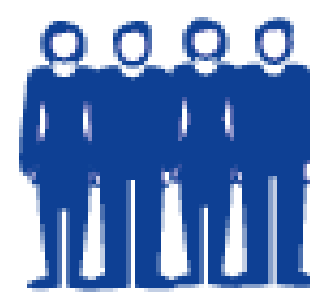
Who Is wprd?

- Headquartered in Bremen Germany, wprd is a privately owned renewable energy developer, active in 29 countries.
- wprd Canada has been active in Canada since 2008, primarily in wind energy.
- We are now actively engaged in wind, solar and storage development work across the country.
- We finance, develop, own and operate our renewable energy facilities.

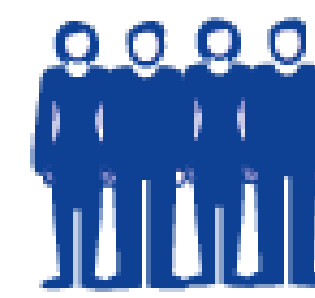
The wprd Group

Some
3,700 employees
worldwide

Today, the wprd group employs some 3,700 staff who are driving the expansion of wind and solar energy around the world and who offer a complete value-added chain in this field. The company's head office has been located in Bremen since wprd was set up in 1996.



1,001 employees
Development
and operation



518 employees
Commercial management and
technical operational management



2,154 employees
Maintenance
and service



wprd AG - facts

2,630 wind turbines set up

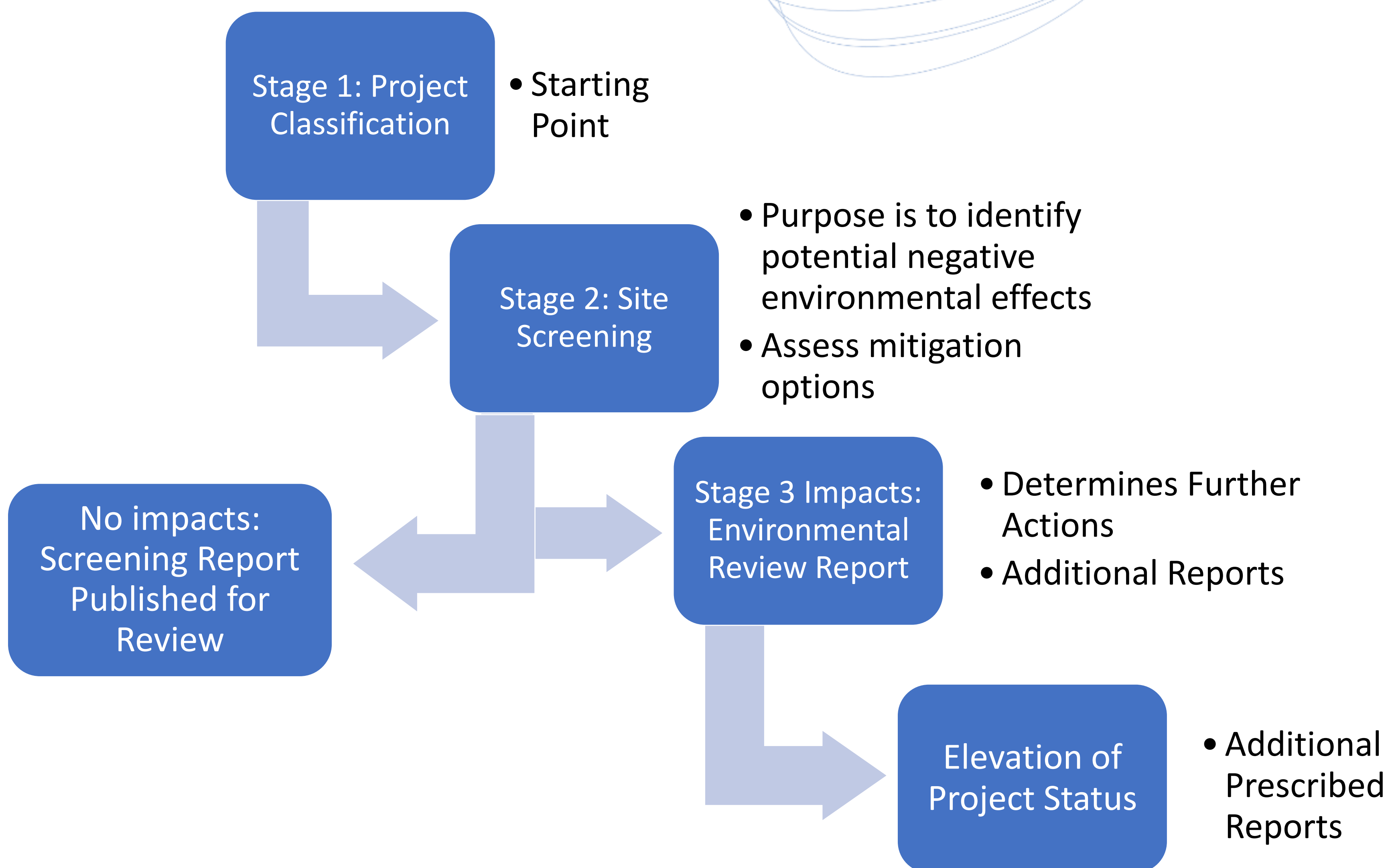
6,110 MW of installed capacity

Active in **29 countries**

2,623 MW own capacity (IRPP)



ENVIRONMENTAL PERMITTING PROCESS*



Each stage usually requires notification and a review period. The results of the screening exercise may result in additional reports such as but not limited to: Archeological Reports, Noise Studies, Water and Natural Heritage Reports and/or Species At Risk studies

*Reference Document: "Guide to Environmental Assessment Requirements for Electricity Projects" January 2011



PROJECT BACKGROUND

- Ontario is entering a period of emerging electricity system needs, driven by increasing demand, the retirement of the Pickering nuclear plant, the refurbishment of other nuclear generating units, as well as expiring contracts for existing facilities.
- To address these needs, the IESO issued the Long-Term Request for Proposals (LT1 RFP) to competitively procure 2,518 MW of year-round effective capacity from dispatchable new build resources. These include new build storage facilities which can deliver a continuous amount of electricity for at least four consecutive hours.
- The LT1 RFP will acquire capacity services from new-build electricity resources with a commercial operation date as early as 2027 and an expected operating life of 20 years.



ANTICIPATED PROJECT TIMELINE

2023

- ✓ IESO issued Draft LT1 RFP (May)
- ✓ Deliverability Test Results provided by IESO (Sep 18)
- ▶ Public Meeting (Nov)
- ▶ Bid Submission Deadline (Dec 12)

2024

- ▶ IESO awards LT-1 contracts (expected in Q1/Q2)
- ▶ Ongoing Public Consultation and Public Meetings
- ▶ Interconnection Study kick-off (fall)
- ▶ Initiation of Class EA process (fall)

2025

- ▶ Field Surveys and Project Design
- ▶ Ongoing Public and Municipal Engagement

2026

- ▶ Final Project Design and Equipment Procurement

2027

- ▶ Site Preparation and Start of Construction (spring)
- ▶ Completion of construction and COD (end of 2027)



WHAT IS ENERGY STORAGE?

- Energy storage captures energy when it is produced and stores it for later use through a variety of technologies including, but not limited to, pumped hydro, batteries, compressed air, hydrogen storage and thermal storage.
- Moreover, the ability to store low-cost energy to supply additional energy during high-cost peaks, increases the amount of energy available within the system, but also reduces costs for consumers.
- Energy storage can also serve as a backup if power generation is interrupted, boosting the reliability and resilience of the system.





FIRE SAFETY

Examples of Fire Detection and Fire Suppression Systems used in modern Battery Energy Storage Systems:

Fire Detection and Alarming

- Battery containers are equipped with smoke and heat detectors to feedback alarm and fault signals.

Decompression System

- Battery containers are equipped with decompression systems for pressure relief and feedback the status signal of the venting plate.

Flammable Gas Detector System and Ventilation System

- The battery compartment can be equipped with a flammable gas detector, an air inlet device, and an outlet device.

Sprinkler System

- An automatic sprinkler system can be installed and connected to external water sources.

Final design will be determined in consultation with equipment suppliers and local fire officials

