

# Welcome

## Public Open House

Please sign in at the registration desk then come say hello and check out our display boards.

**Thanks for Attending!**

The Westbridge Team is here to listen to your feedback, provide information about the Project, and answer your questions.

## **WESTBRIDGE RENEWABLE ENERGY CORP.**

Westbridge is a publicly-traded renewable energy company listed on the Toronto Venture Exchange with a focus on originating and developing utility-scale solar and energy storage projects to deliver clean electricity to Canadians.

### **FAST FACTS**

Westbridge is currently developing five projects totalling 1,285 MWp, including four projects here in Alberta.

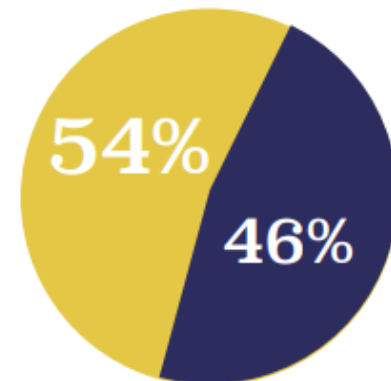
The company has originated 500 MW / 1 GWh of Battery Energy Storage Systems (BESS) in Alberta portfolio and added one 53 MW / 106 MWh standalone BESS project in the United Kingdom.

These projects will support clean energy procurements by government, various industries, and utilities.

#### **PORTFOLIO BY TECHNOLOGY**

 **SOLAR PV:  
1,285MW**

 **BATTERY ENERGY  
STORAGE SYSTEM:  
553MW / 1,106MWh**





## PROJECT INFORMATION

### PROJECT TYPE AND SIZE:

- 280 MW<sub>ac</sub> Solar Photovoltaic
- 100 MW Lithium Ion Battery Storage

### TOTAL CAPACITY DELIVERED TO THE GRID:

- 280 MW<sub>ac</sub>

### EXPECTED COMMERCIAL OPERATION DATE:

- Q3 2024

### PROJECT DURATION:

- 35 + Years

## SOLAR PROJECT COMPONENTS

### SOLAR MODULES (PANELS):

- Approximately 512,000 bifacial modules

### COLLECTION SYSTEM:

- 34.5 kV collector lines will connect to the Project substation. Collector lines will be located underground.

### POWER CONVERSION STATIONS:

- 75 Inverter/Transformer Stations to convert direct current to alternating current and to boost the voltage to 34.5 kV.

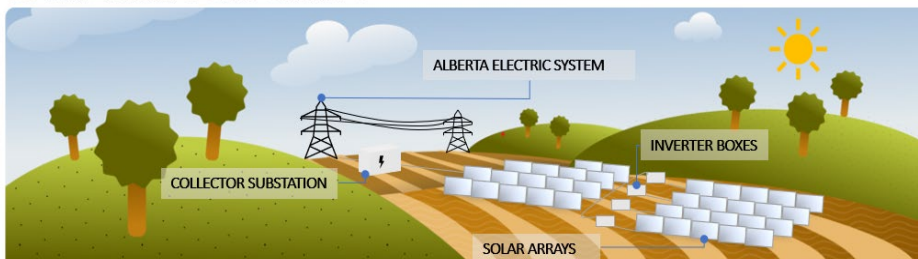
### PROJECT COLLECTOR SUBSTATION:

- Proposed location is 09-25-27-12W4M

### ACCESS AND ROADS:

- Access will be in common with collector lines. Existing trails and roads will be used where possible.

SOLAR FARM COMPONENTS



## **PURPOSE AND USE**

### **BATTERY ENERGY STORAGE SYSTEM (BESS)**

- The BESS will be located close to the project substation.
- The BESS will charge from the electric grid or from the solar power plan and then discharge that energy for use at a later time.



## **BATTERY STORAGE COMPONENTS**

### **BATTERY MODULES:**

- Storage of electric energy
- Number to be determined

### **SENSORS AND CONTROLS:**

- Required for monitoring and communication with the grid system operator

### **INVERTERS:**

- Convert direct current to alternating current

### **WEATHER PROOF CONTAINERS:**

- BESS containers are modular structures that house the major system components

### **HVAC SYSTEMS:**

- Provide the necessary climate control

## **VALUE CREATION**

### **LOCAL EMPLOYMENT:**

- Approximately 250 full-time jobs during construction
- 2-5 full time and part time jobs during operations

### **LOCAL ECONOMY:**

- Local businesses will experience increased activity in hospitality, retail, and other service industries during development, construction, and operation

### **PROPERTY TAXES:**

- Annual property taxes paid to Special Areas 2 resulting in financial benefits to the area

### **CLEAN ELECTRICITY:**

- Local generation of renewable energy adds to the province's energy mix providing a long-term, low cost and low carbon energy source
- The Project is expected to generate emission-free electricity to power approximately 50,000 Alberta homes



## **ENVIRONMENTAL STUDIES**

### **FIELD STUDIES WERE INITIATED IN 2021 AND COMPLETED IN 2022**

Environmental studies included wildlife, vegetation, and wetland surveys and habitat mapping.

### **CONSULTATION WITH ALBERTA ENVIRONMENT AND PARKS (AEP) IS ONGOING**

Project Submission to AEP: October 19, 2022

Anticipated AEP Review: February 2023



## NOISE

- A Noise Impact Assessment (NIA) is underway for all residences within 1.5 km of the project.
- The NIA predicts the cumulative impact of noise from the Project and existing energy facilities in the project area.

### KEY TAKEAWAY

The Project must demonstrate that requirements of Alberta Utilities Commission *Rule 012: Noise Control* have been met.

We will comply with municipal work hours to ensure noise levels are kept to a minimum during construction.

## TYPICAL SOUND LEVELS (dBA) OF COMMON NOISE SOURCES



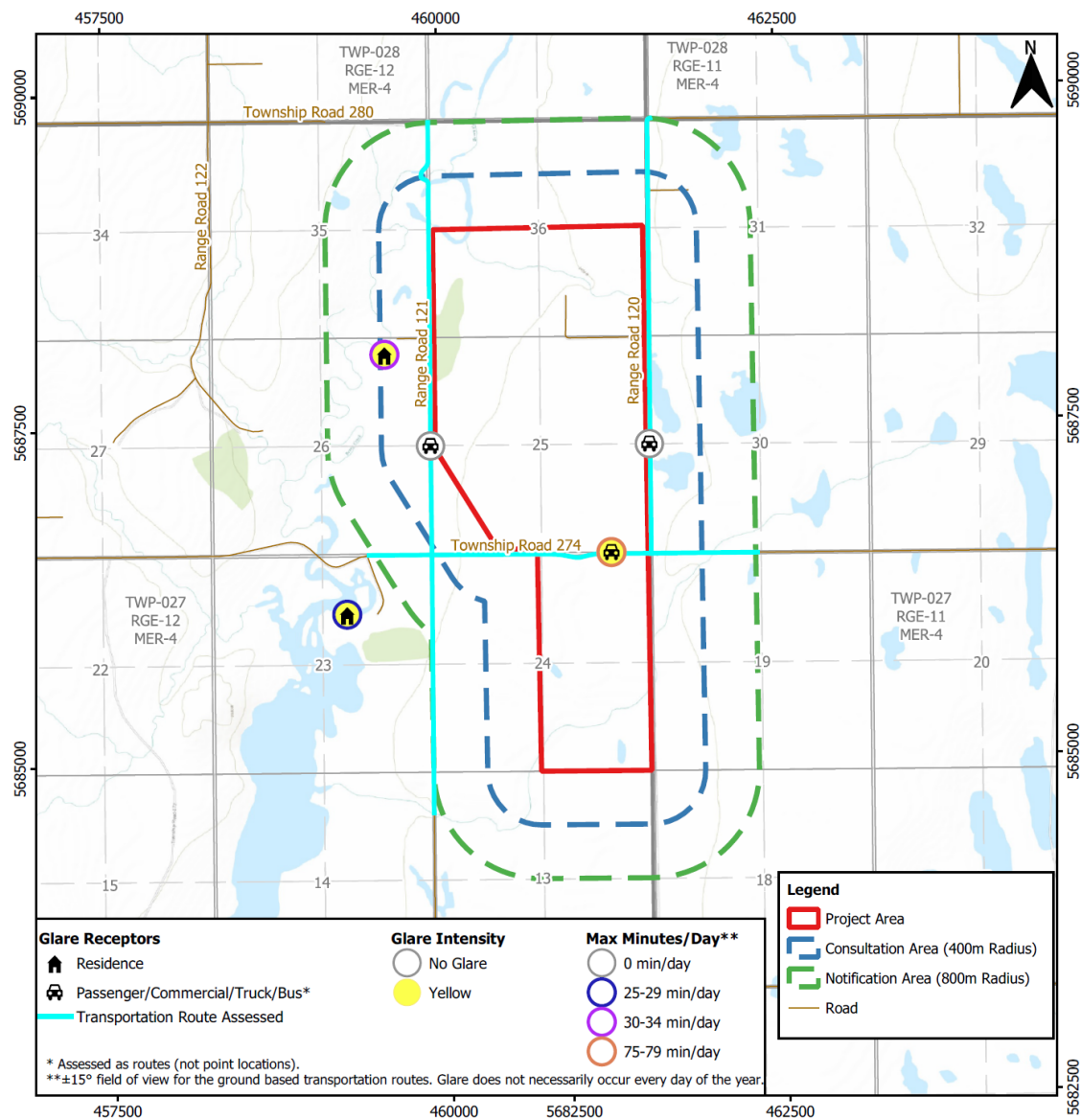


## GLARE ANALYSIS

- A Glare Analysis was completed for the Project.
- The analysis included two dwellings and three local roads within 800m of the Project.

## KEY TAKEAWAY

The Project does not present a significant hazard to drivers or have a significant adverse effect on a resident's use of their home.



## **DUST**

- Westbridge will work with the Special Areas 2 to ensure dust mitigation is in place and impact is kept to a minimum.

## **INCREASED TRAFFIC**

- Main access into the Project site is proposed via Township Road 274 and Range Road 120.
- Speed limits will be enforced through the Project area and on county roads.
- Traffic will be increased during the construction phase of the Project. During the operations phase, site visits will be weekly.

## **FIRE AND EMERGENCY RESPONSE PLAN**

- Westbridge will work with Special Areas and first responders to develop an Emergency Response Plan.

## **WATER RESOURCES**

- Solar farms do not require access to water. Solar panels are not washed during operations except in extreme cases of soiling.



## WEED MANAGEMENT AND SOIL EROSION

- Westbridge will abide by the *Weed Management Act* to minimize weeds during operation
- A detailed Conservation and Reclamation Plan will be prepared for the management of soils, weeds, and revegetation and will be submitted to the AUC
- An experienced O&M contractor will be retained to oversee weed control during operations



## SITE MAINTENANCE

- It will be necessary to maintain the land in such a way that vegetation does not shade or in other ways impact the solar panels
- It is anticipated that the site will be planted with grassland plant species offering several benefits:
  - Maintain the nutrient quality of the soil
  - Manage weed growth
  - Reduce soil erosion
  - Create pollinator-friendly habitat



## PROJECT END OF LIFE

- At the end of the project's life, it will be decommissioned or repowered
- When decommissioned, equipment such as the solar modules and racking will be salvaged and recycled
- Reclamation will be consistent with the *Alberta Conservation and Reclamation Directive for Renewable Energy Operations*
- The landowner can resume normal agricultural operations following the 35 + year lifespan of the solar project



## PROJECT SCHEDULE

Q4  
2022

### Regulatory

- Complete technical studies
- Submit application to Alberta Utilities Commission

Q2  
2023

### Construction

- Project construction is estimated to begin September 2023 and last through August 2024

Q3 2024

### Stakeholder Consultation

- Project notification and initial consultation
- Public Open House

Q1 2023

### Special Areas 2

- Submit Development Permit Application

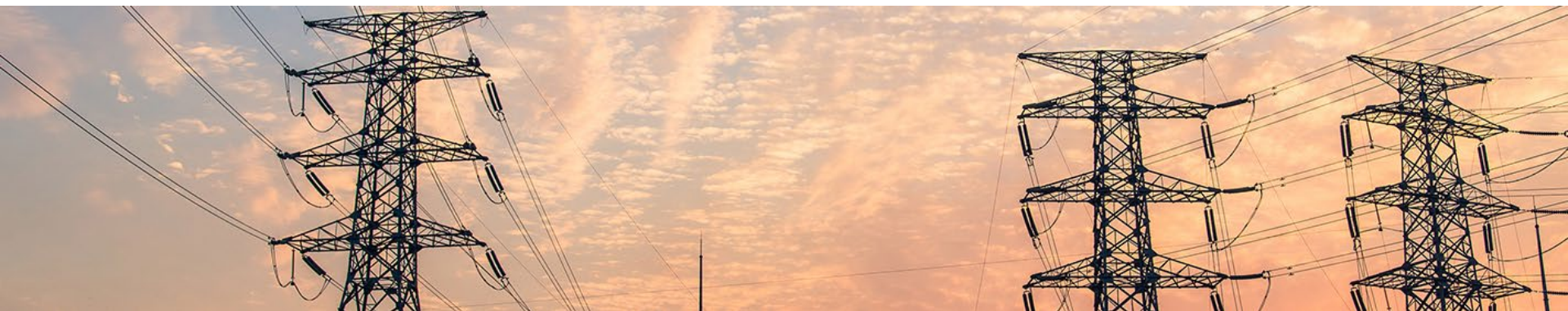
Q3 2023-  
Q3 2024

### Commercial Operations

- Expected commercial operations date

## STAKEHOLDER AND COMMUNITY CONSULTATION

Westbridge will be following up with the Sunnynook Solar Project stakeholders to provide additional information about the Project. We encourage you to reach out at any time to discuss the Project with us.



For more information on how you can participate in the AUC process, the AUC brochure, *“Public Involvement in a Proposed Utility Development”*, is available at the registration desk

# THANK YOU FOR ATTENDING!