

RED WILLOW SOLAR + ENERGY STORAGE PROJECT

Westbridge Renewable Energy Corporation (Westbridge) is proposing the development of a 225 MWac solar energy generating facility and a 100 MW battery storage system (the “Project”) on privately held lands in Stettler County.

Once constructed and operational, the Project will connect to the Alberta Integrated Electric System (“AIES”) through an existing transmission line that runs through the site to support the ongoing energy needs of Albertans.

Who is Westbridge Energy Corporation?

Westbridge is a Calgary-based renewable energy company focused on originating and developing utility-scale solar and energy storage projects, turning green fields and the power of the sun into a reliable, sustainable flow of energy.

Westbridge’s management team have collectively developed more than 2 gigawatts of renewable energy capacity across Europe and North America. In Alberta alone, Westbridge has projects in development totalling 1,674 MWp of solar generation and 653 MW of energy storage.

For more information on the company and its current projects, please visit www.westbridge.energy.

What are the benefits of the Project?

The development of this Project will provide local benefits to the community such as an increase in property tax payments to the county, local employment opportunities for construction and operation, and increased use of services (accommodations, restaurants) throughout the construction from our Project team.

QUICK FACTS

Solar energy generated
225 MWac

Battery Storage
100 MW
(200 megawatt hours (MWh))

County:
Stettler

Regulatory filing
2023

Construction
2024

Operational
2026

Red Willow Solar Energy Generation Facility

Westbridge is proposing the construction of a 225 MWac fenced solar energy facility on privately owned lands in Stettler County.



Red Willow Battery Energy Storage System

Westbridge is proposing a 100 MW lithium-ion battery energy storage system to be located within the fenced area directly adjacent to the collector substation to store power for distribution into the grid in times of high demand.



What does the Project consist of?

The Project will consist of arrays of photovoltaic panels aligned to generate power. These rows of panels will be attached to inverters and transformers to allow for an onsite, underground collector system to bring the generated power to a collector substation. This collector substation will convert the 34.5 kilovolt (kV) power generated to 240 kV to connect to the AIES. The Project area will be fenced, have access trails, and a one-storey control building to monitor the operation of the facility.

What type of panels are being used?

The panels being proposed for the Project will be bi-facial solar panels due to their ability to receive and transform solar radiation from both the top and bottom sides. Bifacial panels are well suited to Alberta's climate as snow cover can actually boost solar production during the winter months as sunlight is reflected from the snow's surface allowing for electricity generation from the underside of the panel.

It is anticipated that there will be approximately 454,000 panels on site to generate the 225 MWac of power. The Project will provide enough electricity to power the equivalent of over 40,000 homes.

Will the facility be bright?

The Project team is in process of completing a Glint and Glare study to be submitted to regulators as part of the facility application required to construct and operate the Project. The overall design of the Project will limit any excessive glare at local receptors including residences.

Where is the collector substation?

The collector substation will be within the fenced area of NE 10-40-18 W4 on approximately 150x150 m area in the southeast corner adjacent to the proposed battery energy storage system.

How are panels recycled and replaced?

Westbridge will replace panels as required and recycle any damaged or no longer useful panels according to the manufacturer. The Project is anticipated to be operational for 35 years.

How will the energy generated get to Albertans?

Westbridge is working closely with ATCO Electric to connect the power generated to the ATCO transmission infrastructure that already exists on site.

What are the batteries going to look like and where will they be?

At this time, the manufacturer of the battery packs has not been determined. The battery energy storage system (BESS) will be located on an area of approximately 100x100 m area with an operations building approximately 25x30 m in size. The BESS will be located within the southeastern fenced area of NE 10-40-18 W4.

What is Westbridge doing about battery safety?

In accordance with the County's regulations and requirements, Westbridge battery energy storage systems development will be accompanied with a set of analysis, measures, and mitigations aimed at making the power plant a safe facility. For example, Westbridge will have an on-site Emergency Response Plan that will be developed through discussions with local emergency response providers. Westbridge will be installing onsite monitoring to allow for a quick response to any potential issues.

Are these batteries loud?

The batteries generate sound from the fans installed within the battery pack to regulate internal temperature. Westbridge is undertaking a Noise Impact Assessment to implement any mitigation needed to meet regulatory guidelines for noise (Alberta Utilities Commission (AUC) Rule 012). It is not anticipated that sounds will vary from what is currently heard today.

What is Westbridge doing regarding potential environmental impacts?

Westbridge has been undertaking environmental desktop and field work over the past year, including conducting surveys for:

- Bird migration (fall and spring)
- Breeding birds
- Sharp-tail grouse
- Raptors
- Wetlands and watercourses

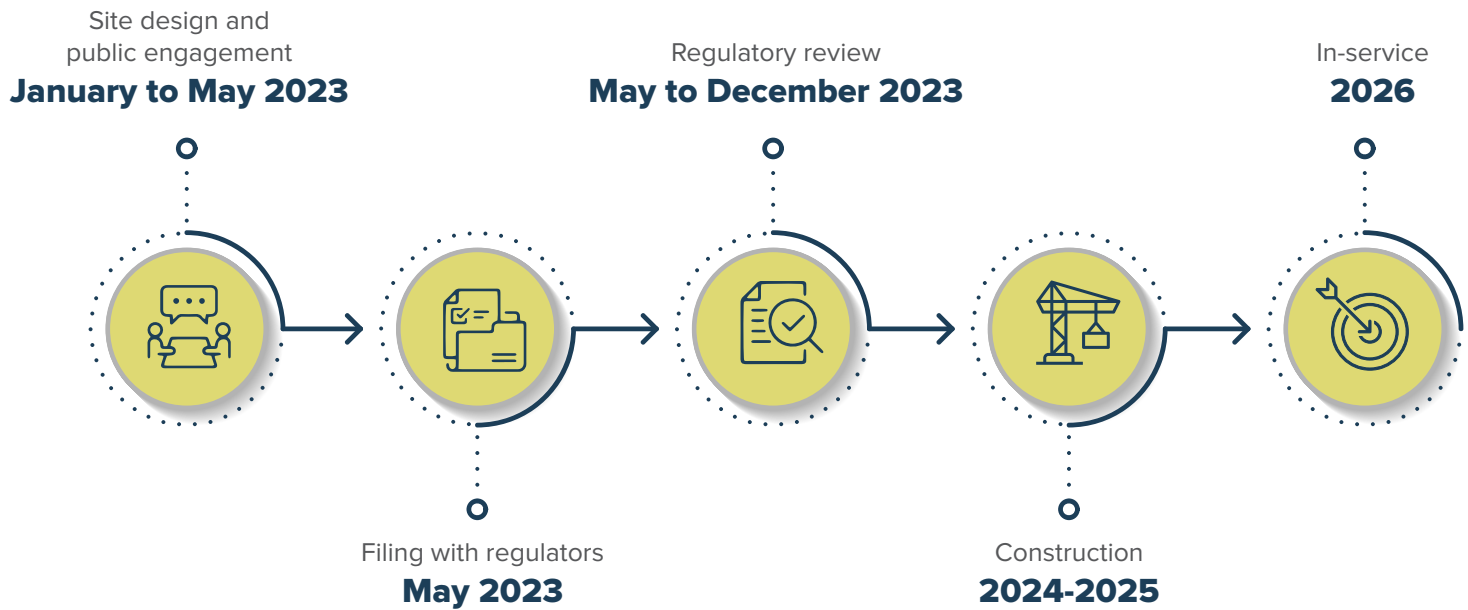
As the Project moves forward, there will be soil, wetland, and vegetation surveys to complete the Environmental Evaluation and associated Environmental Protection Plan to manage potential effects of the Project on the environment throughout the construction and operation.

Who approves the Project?

Westbridge will be filing one facility application with the Alberta Utilities Commission (AUC) within the first half of 2023. The AUC will be the final decision maker on whether the Project should be approved and is in the public's interest. More information on the AUC's process can be found on their website at www.auc.ab.ca



Timelines




**timelines subject to change*

Questions? Comments?

If you have any questions or would like to discuss the Project, please contact us directly.

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