



PROJECT OVERVIEW

2202993 Alberta Ltd., a wholly owned subsidiary of Acciona Energy Canada Global Inc. (ACCIONA), is proposing to construct and operate the Lone Butte Solar Project, a clean and efficient power generation facility to help address the ongoing need for renewable energy. The project is located 7 km southwest of the Hamlet of Torrington, Alberta, on approximately 2000 acres of privately owned and cultivated land.



PROJECT DETAILS

Total project capacity	450 megawatts AC (MWac) / 585 megawatts DC (MWdc)
Estimated number solar panels	1.2 million
Electrical capacity per panel	645 watts dc
Electrical connection voltage	240 kV
Electrical connection location	Existing transmission system 10km west of site

SITE SELECTION CONSIDERATIONS

Careful consideration was given to identifying a location that met the following criteria:

- Proximity to existing electrical transmission infrastructure with sufficient capacity;
- Low population density; and
- Avoidance of wetlands and wildlife habitats.

During selection of the final land package, ACCIONA worked with the landowners to focus the project on lower producing lands. Certain parcels of land that met our criteria were subsequently excluded to maintain extra separation from existing residences.

KEY DEVELOPMENT CONSIDERATIONS

Voluntary Setbacks

In addition to the mandatory federal, provincial and municipal setbacks, Acciona has introduced a number of voluntary provisions. These include:

- A 170m wide corridor along Range Road 265, that provides an additional buffer while creating an enhanced mobility corridor for wildlife;
- A minimum separation of 350m from all but one third-party residence; and
- A minimum separation of 500m from any noise generating project component.

Environmental

The Lone Butte Solar Project has been sited to avoid all wetlands, native grasses and wildlife as required by the Wildlife Directive for Alberta Solar Projects, which is published by Alberta Environment and Protected Areas (“AEPA”). Minor encroachments are required on several setbacks, with each encroachment mitigated accordingly.

All solar projects in Alberta must submit an environmental evaluation to AEPA, which includes detailed wildlife studies, vegetation mapping, and wetland and wildlife habitat mapping. This information is in turn used by AEPA to determine if the project presents a high, moderate or low risk to wildlife and wildlife habitat. Based on the preliminary layout, ACCIONA expects the project will receive a “low” risk rating from AEPA.

Noise

All power generation projects in Alberta must complete a Noise Impact Assessment and comply with the requirements of Alberta Utilities Commission *Rule 012: Noise Control*. Based on the preliminary layout, the project complies with these requirements.

Electrical Interconnection

The proposed project will be connected to the existing AltaLink transmission system located approximately 10km west of the Project site. The connection between the project substation and existing transmission system will be completed as a separate project by AltaLink.

PROJECT TIMELINE

Environmental Studies	Completed October, 2023
Open House	June 27, 2024
Regulatory Application	August, 2024
Estimated Construction Start	September, 2025
Estimated In-Service Date	September, 2026

PRESERVATION OF AGRICULTURAL CAPABILITY

In consultation with the landowners, ACCIONA directed their project siting activities on lands that have historically provided lower agricultural returns.

To support ongoing agricultural activities on these more marginal lands, row spacings and fence locations are designed to accommodate narrow-width mechanized equipment to allow for co-location of both agricultural and energy production on the land.

The land between rows will not require any physical project disturbance and will be seeded with an agronomic mix to preserve forage crop production that can be used in the integrated livestock and dairy production operations of the primary project landowner.



PROJECT DISTURBANCES

Project disturbances are classified as temporary (during construction), and Permanent (during life of project).

	Fenced Area (Acres)	Temporary Project Footprint (Acres)	Permanent Project Footprint (Acres)
Total	2059	1805	45

The permanent footprint includes helical piles to support the solar array, access roads, inverter stations, and, the project substation area. These areas will require grading, stockpiling of soil, all in accordance with provincial standards. The balance of the project area will remain available to co-locate agricultural activity.

LAND CLASSIFICATION

The Land Suitability Rating System (LSRS) is a national, rule-based set of algorithms that integrate soil, climate and landscape factors to calculate a classed suitability rating for a given landscape to support commercial field crop production.

Project Agroclimate Values (within fenced area)

Suitability Class	Acres	%
3H	2059	100%

Project LSRS Values (within fenced area)

- Spring Seeded Grains

Suitability Class	Acres	%
3	1476	72%
2*	583**	28%
Total	2059	100%

*with significant growing limitations

**estimated maximum extent that will be field verified prior to regulatory application

A majority of the project is located on land identified as being Class 3 or poorer, and is not subject to the new requirements introduced by the Government of Alberta. The remainder of the project is located on Class 2 lands that have limitations for optimal growth due to lack of heat and moisture.

RECLAMATION

ACCIONA is contractually obligated to restore the project area to equivalent land capability, in accordance with the laws and regulations of the Province of Alberta. This reclamation obligation is backstopped by a third-party guarantee in favour of landowners, follows the project regardless of ownership, and is not affected by bankruptcy. Key provisions of the reclamation security include:

- In place prior to start of construction
- Reclamation costs net of salvage value (increases with time as salvage value decreases with time)
- Updated every 8 years (to ensure sufficient funds are available)

This security is accessible by the landowners if ACCIONA does not achieve its contractual obligations.

CONSTRUCTION CONSIDERATIONS

ACCIONA will work with Kneehill County during construction planning to minimize potential impacts such as dust, noise, and increased traffic. Our current plans are to access the site from existing township and range roads adjacent to the boundary of the proposed project.

PUBLIC INVOLVEMENT

ACCIONA believes every renewable energy project is the beginning of a lasting partnership with the local community. As part of our consultation activities, we work closely with community members to identify areas of interest and concern as we seek to finalize our project. We are committed to open communication and respectful dialogue, which we believe will ultimately result in a development that reflects the values of the community.

COMMUNITY ENGAGEMENT AND BENEFITS

ACCIONA values the long-term benefits of working with the local community. If the Lone Butte Solar Project is approved and constructed, the local community is expected to benefit from:

- A community investment program that will provide funding for community needs. Total program funds during construction will be a percentage of costs, while program funds during the operational life of the project will be a percentage of annual revenue;
- Employment opportunities during construction and operations; and
- Tax revenues to Kneehill County.

ABOUT ACCIONA

ACCIONA is a global group that develops and manages sustainable infrastructure solutions, especially in renewable energy. Its business spans the entire value chain, from design and construction through to operation and maintenance.

With no fossil fuel legacy in over 30 years of history, ACCIONA has one of the world's leading expert teams in the design of integrated solutions to decarbonise the planet.

ACCIONA Energía is the world's largest 100% renewable energy company, with operations across five continents. We have been an active participant in Alberta's renewable energy industry since 2004. As of April 2024, ACCIONA's milestones include;

13.5 GW
INSTALLED CAPACITY

13.6 MM METRIC TONS OF
CO₂ EMISSIONS AVOIDED

24,894 GWh
GENERATED IN 2023

Our long history has led to the aspiration to make the planet a better place through our activity, which provides sustainable solutions to the main challenges that will define the future relationship of humanity with the Earth.

Feel free to contact us at the number listed below if you would like any more information.

CONTACT INFORMATION

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