

GENERATION

TRANSMISSION

SUBSTATION

DISTRIBUTION

YOUR HOME, FARM & BUSINESS

Overview

Horus Energy through its affiliated company Dunmore Solar Inc. is developing a 216 MW_{ac} solar power project near the hamlet of Dunmore in Cypress County, Alberta. The project has been sited on approximately 900 acres of privately owned cultivated lands. Horus will be seeking necessary approvals from the Alberta Utilities Commission, Cypress County, Alberta Environment and Parks, and other agencies as required.

About Dunmore Solar

The Project has been initially designed with the following infrastructure:

Bi-facial Solar PV Modules: Bi-facial solar panels have been selected for the Project due to their ability to receive and transform solar radiation from both the top and bottom sides.

Racking and Mounting Systems: The solar panels will be installed on a fixed-tilt racking system, which remains at a stationary tilt angle throughout the year, with panels ranging in height between approximately 1.0m to 2.5m above ground level.

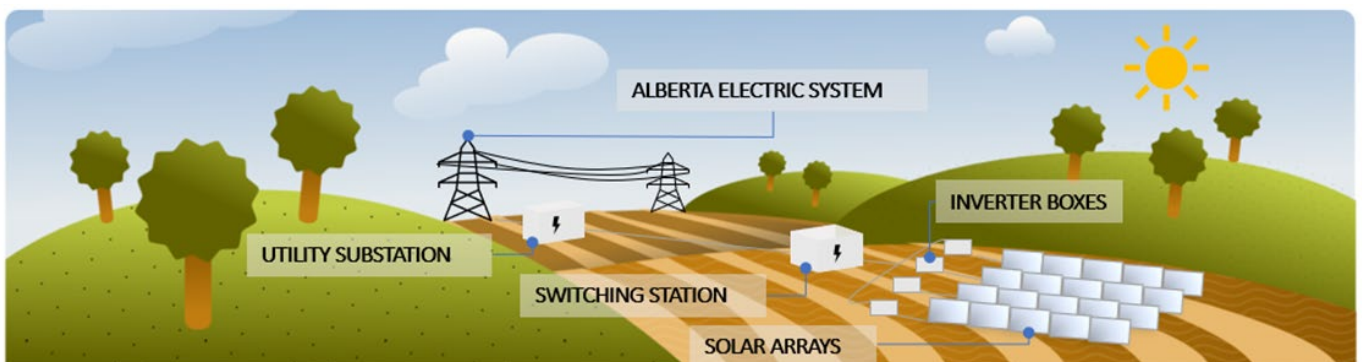
Inverters: Power conversion stations that receive the direct-current (DC) power collected by the solar panels and convert this to alternating current (AC) power at key junction points where they connect to the collector system.

Electrical Collection System: The collection system for the project consists of underground cables connecting the inverters to the project substation.

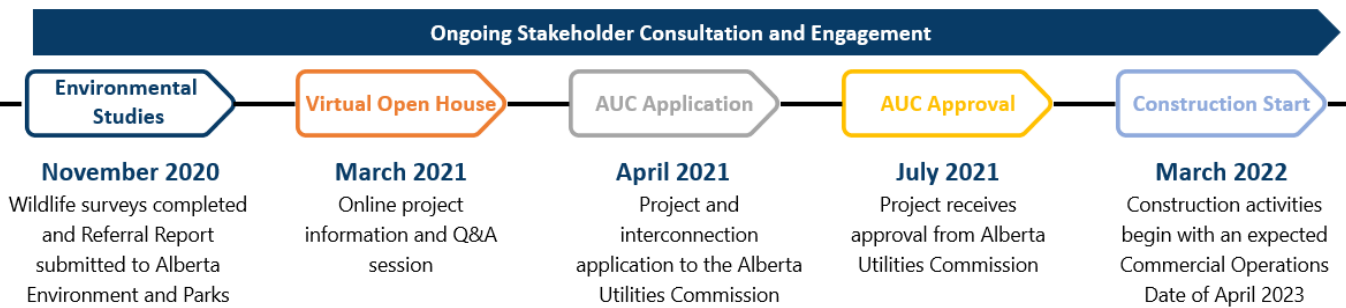
Collector Substation: A main power transformer located at the Project substation will take the generated power at 34.5kV and will step up the voltage to 138kV to connect into the Alberta Electric System.

Interconnection: The Project proposes to connect to the existing 138kV transmission line located within the Project boundaries. A short connection line will be required to connect the Project substation to the 138kV transmission line; however, this short line will be located on private land participating in the Project.

Access Roads: No additional access roads will be required outside the Project site. During construction and operations, the entire project would be fenced in for security and safety reasons.



Project Schedule



Project Operations

The Dunmore Solar project is expected to be operational for at least 35 years and could realistically last for 40 years or more. At the end of project life, the project will either be decommissioned and reclaimed or re-powered. If decommissioned, equipment from the project, such as PV modules and racking system could be salvaged for reuse or recycled.

Community Engagement

Horus Energy is committed to meaningful engagement with community members or stakeholders who may be directly or adversely impacted by our Project. Our goal is to provide opportunities for stakeholders to learn about the Project, ask us questions and share their concerns with us. We commit ourselves to understanding and resolving the concerns of the people who live, work, and play in our Project area. For more information about the Project please consider visiting the Project website: www.dunmoresolar.ca

Local Benefits

Horus believes in providing local opportunities and employment. The Project has employed many Albertans and local companies to conduct technical studies, environmental assessments, and project management. The construction and operations phases are expected to create many temporary and permanent jobs and boost the local economy through retail and other services. Horus is intent on providing as many local benefits and employment opportunities as possible.

Environmental Studies

Wildlife and habitat studies were completed throughout 2020 to assess and mitigate for any adverse effects to local wildlife and the habitats that support them. The studies included surveys for:

- Breeding birds
- Migrating birds
- Burrowing owls
- Sharp-tailed grouse
- Raptors
- Amphibian

The field wildlife studies were compiled into a Renewable Energy Project Report and submitted to Alberta Environment and Parks (AEP) in November 2020. Horus Energy will discuss any potential environmental concerns with AEP representatives and implement mitigation strategies as necessary. Copies of all environmental studies will be included as part of the AUC application process.

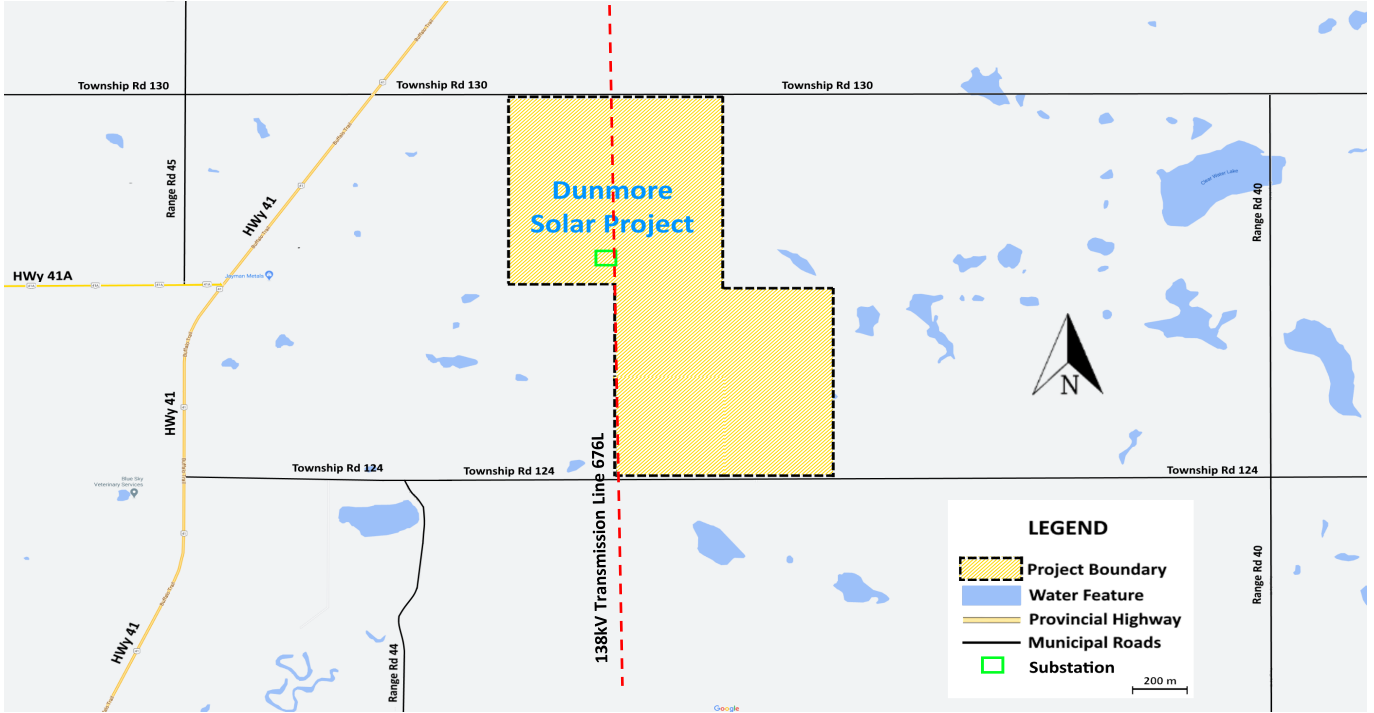
Additional Studies

Horus Energy is also in the process of conducting the following additional studies:

- Historical Resources: Assessments to determine any potential impacts to historical and archaeological resources
- Noise: Modeling and impact assessment on the surrounding residences and other receptors
- Glint and Glare: Modeling and assessment of any potential solar glare impacts

Project Location and Layout

In order to develop the layout, the Project team developed a buildable area footprint incorporating setbacks around existing developments and neighboring lands as prescribed by the province and Cypress County. All required setbacks and features will be adhered to. The application of these setbacks has led to the proposed power plant and substation facilities shown on the map and contained within the Dunmore Solar Project boundary.



Meet the Team

Maggie McKenna
Managing Director



Jennifer Traichel
Project Manager

About Horus Energy

Horus and its affiliate companies develop, construct, and operate large-scale solar and energy storage facilities in North America and Europe. Founded by Horus Capital and with offices in London, Milan, New York and Calgary, Horus is a leading utility-scale solar company, delivering competitive, clean electricity to large energy buyers and institutional investors. Horus has 2,060 MW of projects under development across Europe and North America.

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Privacy Statement Horus Energy is committed to protecting your privacy. Collected information will be protected under the provincial Personal Information Protection Act. As part of the regulatory process for new generation projects Horus Energy may be required to provide your personal information to the Alberta Utilities Commission (AUC). For more information on how information will be protected please contact us.