



# Stettler Solar and Storage Project

## Newsletter – July 2024

Stettler Solar Inc. (SSI), a subsidiary of ABO Energy Canada Ltd. (ABO Energy) formerly ABO Wind, is proceeding with the proposed Stettler Solar and Storage Project (the Project), comprised of 25 megawatts (MW) of solar and a 16 MW/55-megawatt-hour (MWh) battery energy storage system (BESS). Stettler Solar is capable of producing 36 MWac however the grid limit of the Project is 25 MWac and will only export a maximum of 25 MW at any given time. The option of a BESS component may allow the Project to provide services to the grid, or to store excess energy produced from the solar project, to be discharged at a later time.

The Project is sited on privately-owned land 2 kilometers southeast of the Town limits of Stettler, on the Northwest and Northeast quarters of Section 20, Township 38, Range 19, West of the 4th Meridian. It will connect to an adjacent distribution line as determined through the connection process with ATCO Electric Ltd. (ATCO).

Stettler Solar would provide a cost-effective source of clean energy for approximately 10,000 homes and will contribute to Alberta's increasing renewable energy generation. The Project would displace approximately 38,000 tonnes of CO<sub>2</sub> equivalent annually, which amounts to 1 million tonnes of CO<sub>2</sub> over 25 years.



25 MW  
solar project



Energy for  
10,000 homes



1 million tonnes of CO<sub>2</sub>  
offset over 25 years

## Open House announcement

Please join SSI on

**Wednesday, August 7th any time between 6 pm and 8:30 pm  
at the Town of Stettler Community Hall located at 5101 46 Ave.**

SSI will have discipline experts present to discuss the project and answer your questions. Refreshments will be provided.

## ABO Energy

As of May 1st, 2024, ABO Wind Canada formally became ABO Energy Canada. Our new name better captures the entirety of the clean energy projects we develop, demonstrating the value of working with ABO. The name change will have no effect on the development of projects, there will be no changes to existing business relationships, obligations, agreements and contracts.



# The Project Updates

SSI has recently made changes to the project design based on technical and stakeholder feedback. Project updates include:

- Based on results of the connection process with ATCO, Stettler Solar is now planning to tie into the distribution line that runs east/west immediately north of the Project along Township Road 384.
- The 16 MW battery has been relocated to a more central location within the Project and is no longer adjacent to Township Road 384. The battery relocation was implemented to reduce noise outside of the Project boundary.
- A small portion of the southwest corner of the Project was previously sited on Class 2 soils. Infrastructure has since been removed from this area, and the fence line reduced in this corner. The solar panels that were displaced from Class 2 soils and the new siting of the battery have been relocated to the previous battery location and along the eastern side of the previously indicated footprint.
- Updated noise contour and glare results have been included in the map within this newsletter.

## Moratorium

The Province of Alberta announced that the Alberta Utilities Commission (AUC) was to pause approvals for renewable electricity generation from new power plants over one megawatt beginning on August 3, 2023. The moratorium ended on February 29th of this year. Based on the results of the moratorium, layout changes have been made to the project; a small section of photovoltaic panels has been relocated off of Class 2 land, as defined by AGRASID. SSI will comply with AUC's regulatory updates, and its decision to move forward with Stettler Solar and Storage has not been impacted.

## Emergency Response Plan

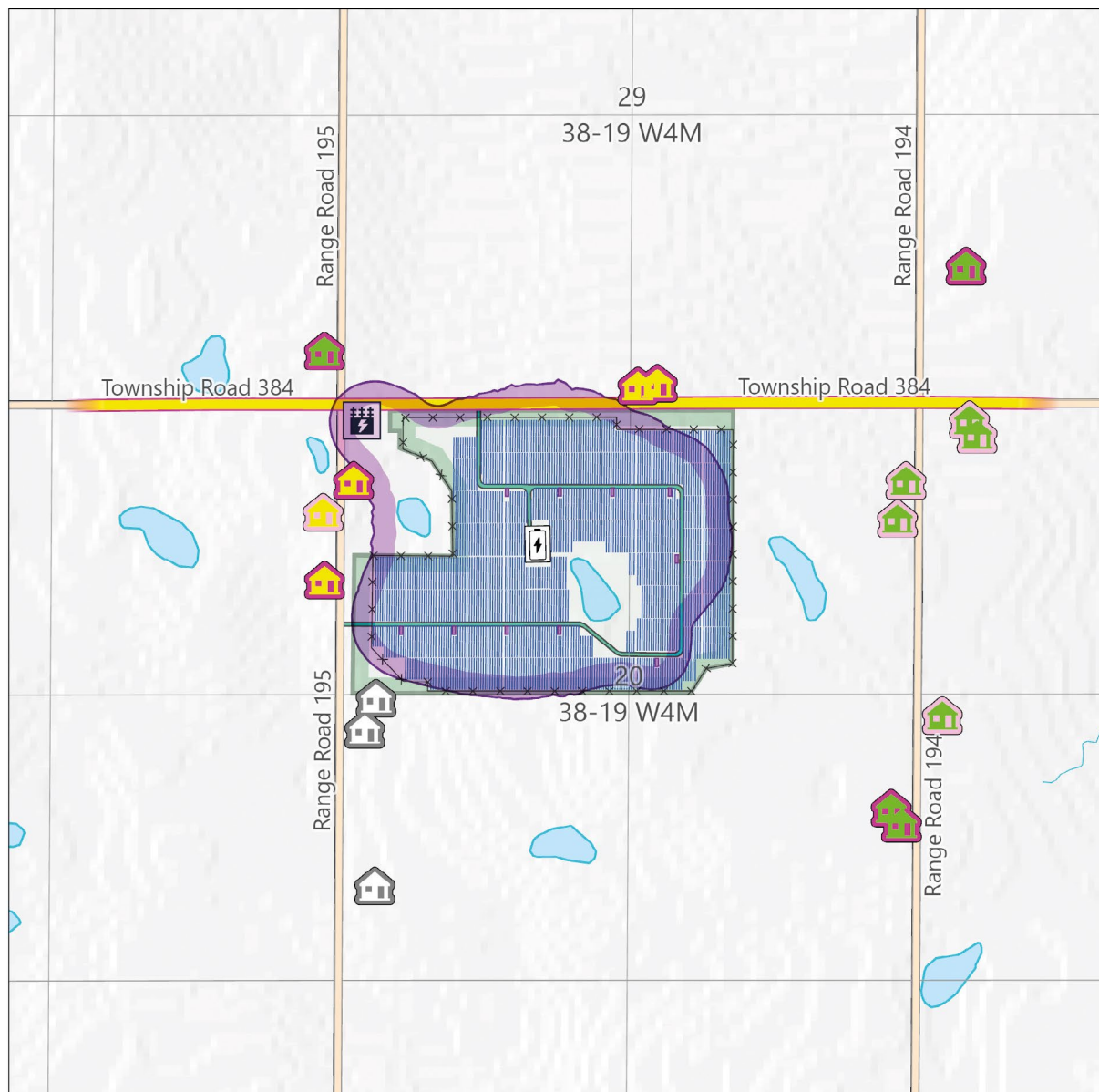
SSI is currently drafting an Emergency Response Plan (ERP) that will be distributed to Stettler Emergency Services for review. The ERP will incorporate feedback, where feasible, and will be kept up to date throughout the Project life. Before Project construction commences, the ERP will be updated in further detail by the Engineering, Procurement, and Construction (EPC) contractor.

## Project Summary Table

|  |                            |
|--|----------------------------|
| Estimated Number of Photovoltaic Panels                    | 72,000                     |
| Nameplate Capacity of each photovoltaic unit               | ~ 560 Wp                   |
| Nameplate Capacity of Project                              | 25 MWac to grid            |
| Estimated size of battery                                  | 6MW/55MWh, <1 acre of land |
| Estimated amount of renewable energy produced              | Enough for ~10,000 homes   |
| What is size of the Project Boundary                       | ~180 acres                 |
| What is the operational Project Footprint (disturbed land) | ~170 acres                 |








# Noise and Glare

The Project will comply with all regulatory guidelines for glare and noise as set out in AUC Rules 007 and 012. An updated noise contour (as shown in the map below) represents the potential noise impact from Project infrastructure, in combination with existing sound from the area. The cumulative sound level produced from the Project and existing facilities is within compliance as outlined in AUC Rule 012: Noise Control. The updated glare analysis results are also shown in the map, and represent the worst-case scenario, in which green glare (low potential for after image) and yellow glare (potential for temporary after-image) may occur when panels are at certain angles. At tracking angles of 4° or higher, no glare is expected. The recent updates to the layout have resulted in an overall decreased potential for glare.



## Stettler Solar and Storage Project




### Noise and Glare

-  Project Boundary
-  Proposed Solar Panel Placement
-  Project Inverter
-  Battery Energy Storage System (BESS) Area
-  Access Road
-  Existing Substation
-  Predicted Cumulative 38.9 dBA Sound Level Contour

Receptors Within 800 m  
by glare intensity

-  No Glare
-  Green Glare
-  Yellow Glare

by maximum minutes of glare per day\*

-  0
-  1-9
-  10-18

 Road with Glare Potential

\*±15° field of view for the ground based transportation routes. Glare does not necessarily occur every day of the year.



0 200 400 600 m

Scale: 1:18,000

Projection: NAD83 UTM Zone 12N

Publish Date: 2024-06-27

Altalis, Airbus, USGS, NGA, NASA, CGIAR, NCEAS, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community

## Environmental and Regulatory Process

SSI submitted a Renewable Energy Submission Report to Alberta Environment and Protected Areas (AEPA) in the Spring of 2023. Feedback from AEPA was received in January 2024, which determined that the Project poses a 'low risk' to wildlife habitat, based on the Project siting, no impacts to native habitat or high-quality wetland habitat, limited wildlife use in the area, avoidance of sensitive wildlife features, and commitments made by SSI to mitigate and monitor wildlife impacts.

SSI is currently preparing the Project application to be submitted to the Alberta Utilities Commission (AUC) under Rule 007 in Q3 2024.

## Shared Benefit Residence Fund (SBRF)

SSI will provide the opportunity of financial benefit for those residence owners situated within 400 metres of the Project fence line through the new Shared Benefit Residence Fund (SBRF). Through this opt-in program, qualifying and participating individuals would receive \$1000 per year for the duration of the estimated 25 year-project. Those landowners believed to qualify for the SBRF will be contacted directly by SSI.

## Project Contact and Consultation

If you have questions about the Regulatory and Consultation Process, you can contact the AUC at 403-592-4500 or find information at: [www.auc.ab.ca](http://www.auc.ab.ca)

We look forward to hearing from you. For more information, please visit our website at [www.stettlersolar.com](http://www.stettlersolar.com) or contact us at:



David Berrade  
Social Impact and Engagement Lead  
ABO Energy Canada Ltd.  
Phone: 587-576-5339  
Email: [dave.berrade@aboenergy.com](mailto:dave.berrade@aboenergy.com)

ABO Energy Canada Ltd.  
#300 - 999 8th Street SW, AB, T2R 1J5  
Website: [www.stettlersolar.com](http://www.stettlersolar.com)

ABO Energy was founded in 1996 and is now a leading developer of renewable energy projects. ABO Energy focuses on developing wind, solar, energy storage, and green hydrogen projects throughout Canada. For more information, please visit [www.aboenergy.com](http://www.aboenergy.com).

## Updated Schedule:

SSI has updated the preliminary timeline for the Project. These updates are shown in the table below and are subject to change.

| Activity  | Timeline          |
|---|-------------------|
| Public Notification and Project Information Package 1               | November 2022     |
| Environmental Field Studies   | Since Spring 2022 |
| ABO Energy submission of Renewable Energy Submission Report to AEPA | Q2 2023           |
| First Open House  | March 2023        |
| Public Notification and Project Information Package 2               | Q3 2023           |
| AEPA provides a Renewable Energy Referral Report to ABO Energy      | Q1 2024           |
| AUC Application Submission  | Q3 2024           |
| AUC Review and Approval   | Q1 2025           |
| MD Permit Review and Approval                                       | Q1 2025           |
| Start of Construction (Earliest Date)                               | Q2 2025           |
| Commencement of Operation   | Q2 2026           |

