

BIG SKY SOLAR POWER PROJECT

ABOUT THE PROJECT

Renewable Energy Systems Canada Inc. (RES) is proposing to develop, build and operate the Big Sky Solar Power Project (the “Project” or “Big Sky”). Big Sky is a 140 MWac solar energy generation project located approximately 2.5 kilometres northwest of the hamlet of Acadia Valley, Alberta. The enclosed Project Area Map shows the proposed Project location.

The Project will consist of the following infrastructure and would use approximately 800 acres of previously disturbed, cultivated land.

Solar Panels and Inverters: Approximately 340,000 tier 1 polysilicon bifacial solar modules on single-axis trackers and bi-directional inverters to enable the potential addition of an energy storage facility.

Collection System: The collection system consists of 34.5kV underground cables connecting the inverters to the Project substation.

Substation: The collection lines will lead into a step-up transformer in the new 144kV RES Bullseye 1004S Substation to be located on NW 32-25-2-W4M.

Interconnection: The Project proposes to connect to the Alberta Interconnected Electricity System (AIES) by t-tapping an existing ATCO owned and operated 144kV transmission line via a new approximately 65 m Project transmission line. Public engagement for this development will be carried out separately in Q2 2022.

Access Roads: Access roads throughout the project will provide safe access to the solar facility during its construction and operations and maintenance phases.

Fence: A security fence will surround the entire Project during both construction and operations.

BUILDING A SOLAR FARM

- The ground area is leveled for construction.
- Security fencing and signage is installed around the perimeter of the facility.
- Pile foundations are drilled into the ground.
- Racking for solar panels is installed on the pile foundations.
- Solar panels are installed on the racking.
- Inverters are installed
- Electrical cables are installed in trenches that run from the end of each row of panels to the inverter which converts the current from DC to AC. The electricity is then carried to the project substation.

INCLUDED IN THIS INFORMATION PACKAGE:

- Project newsletter which includes Noise Impact Assessment results
- Proposed Project Layout Map
- Map of Solar Glare Impact Assessment results and receptors
- AUC Brochure: Participating in the AUC’s independent review process

ANTICIPATED PROJECT TIMELINE:

Q1 2022	Submission to Alberta Environment and Parks Completed
Q2 2022	Personal Consultation with Stakeholders
Q3 2022	Facility Application submission to Alberta Utilities Commission
Q4 2022	Anticipated AUC approval
Q2 2023	If approval is granted, construction activities will commence
Q3 2024	Construction activities completed
Q4 2024	Target Commercial Operations Date

* Timeline is subject to change

**RES will continue to engage stakeholders until the in-service date.

SOLAR GLARE ASSESSMENT

As per AUC requirements, a solar glint and glare assessment uses the Solar Glare Hazard Analysis Tool (SGHAT) developed by the US federal Aviation Administration. SGHAT predicts glare based on the location and orientation of solar panels and the sun's path through the sky. SGHAT characterizes glare at receptors based on the brightness and size of the glare spot formed on the retina of an observer's eye. RES retained Hardline Engineering to undertake a solar glare analysis at Big Sky and no glare is predicted at any receptors. See the Glare Modelling Results Map included in this package.

NOISE IMPACT ASSESSMENT

Noise from the Project is regulated by the AUC through Rule 012: Noise Control. Cumulative noise levels at occupied dwellings must not exceed daytime or nighttime Permissible Sound Level (PSL) limits, 50 and 40 dBA respectively. Cumulative noise levels include natural and non-industrial sources, existing industrial facilities, and the proposed Project. A computer model is used to predict cumulative noise levels at occupied dwellings located within 1.5 km of the Project. Preliminary results shown in the table below indicate that the Project is compliant at all receptors. Receptors are shown on the attached Solar Glare Modelling Results Map. A complete Noise Impact Assessment will be posted to the website in the coming days.

Receptor	Baseline Case Cumulative Noise Level (dBA)		Project Noise Level (dBA)	Application Case Cumulative Noise Level (dBA)		Rule 012 Permissible Sound Level (dBA)	
	Daytime	Nighttime		Daytime	Nighttime	Daytime	Nighttime
R01	45	35	25	45.0	35.4	50	40
R02	45	35	31.2	45.2	36.5	50	40
R03	45	35	35.2	45.4	38.1	50	40
R04	50	40	33.4	50.1	40.9	55	45

LOCAL BENEFITS

The local community will receive benefits from the proposed Big Sky Solar Power Project, including:

- Substantially increased municipal tax revenues throughout the life of the project
- Hundreds of construction and operations jobs and support services during construction
- Up to 5 long-term employment opportunities during operations and throughout the life of the Project
- Contract opportunities for local businesses
- Increased local spending on goods and services during the Project's development, construction and operational phases.

RES IN YOUR COMMUNITY

RES is an active player in the community and supports various fundraising events and special initiatives that bring local benefit.

If you have any ideas on how we can take an active role in the community, please contact us.



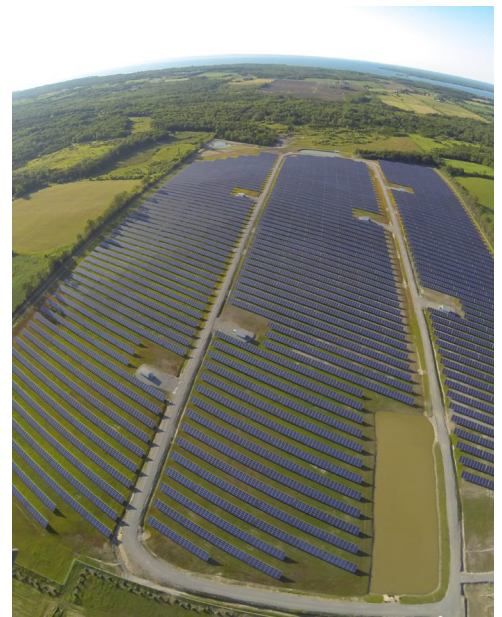
PUBLIC CONSULTATION

As the Project proceeds through the development process, we are committed to working with all landowners and stakeholders to establish and maintain a strong relationship between RES and the community. We strive to exceed the minimum requirements on all our projects, and we commit to responding and acting on all comments and concerns in a timely manner. We will advise stakeholders prior to submitting an application to the AUC for approval, which we anticipate could be as early as

ENVIRONMENTAL STUDIES AND ASSESSMENTS

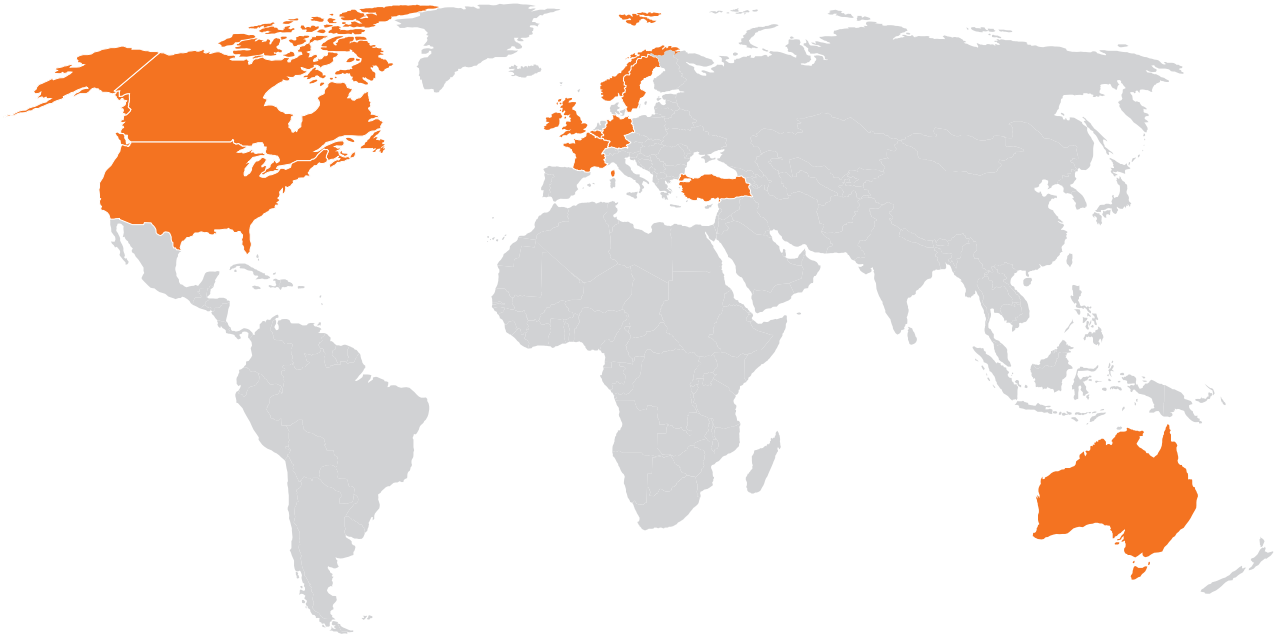
As part of the government review process, solar projects are subject to various environmental study and reporting requirements. In order to meet these requirements and to design the Project layout, we are conducting many desktop and field studies, including the following:

- Wildlife field surveys - completed
- Wetlands classification and mapping - completed
- Vegetation field surveys and mapping - completed
- Geotechnical studies - completed
- Noise Impact Assessment - completed
- Solar Glare Impact Assessment - completed
- Pre-construction soil surveys - Fall 2022



ABOUT RES

RES, the largest independent renewable energy company in the World, is a family-owned business, owned by the McAlpine Family Trust, and has been in the renewable energy business since 1983. Through our corporate culture and values we are dedicated to a zero-carbon future for all Canadians and our focus is solely on renewable energy projects (wind, solar) and supporting & enabling projects (energy storage, transmission). RES has been developing, constructing, owning and/or operating renewable energy, transmission, and energy storage projects in Canada since 2003. RES has developed and/or built 28 projects across Canada. Please visit: <http://www.res-group.com> for more information.



23 GW PROJECT PORTFOLIO

40 YEARS OF EXPERIENCE

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GREEN HYDROGEN

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