

THE PROJECT

WHAT IS HAPPENING?

- We are proposing to build a new solar farm on our property just south of the existing E.L. Smith Water Treatment Plant (at 3900 E.L. Smith Road).
- If approved, the project will involve:
 - installing up to 45,000 solar panels on approximately 58 acres;
 - connecting the panels to the water treatment plant and electrical grid; and,
 - building a new fence to enclose the solar farm.

WHY IS THIS FACILITY NEEDED?

- We are committed to the City of Edmonton's objective to become a leader in energy efficiency and conservation.
- This project aligns with the City's *The Way We Green: Environmental Strategic Plan* by converting a portion of EPCOR's energy use to locally produced, renewable resources.
- If approved, this project will establish a secure source of renewable energy to help power the E.L. Smith Water Treatment Plant and its water treatment and distribution processes while reducing our greenhouse gas emissions.

WHY DID YOU CHOOSE THIS LOCATION?

- The following considerations were used to select the project location:
 - Use by E.L. Smith Water Treatment Plant
 - Land orientation
 - Operations and maintenance
 - Cost
 - Land size
 - Legislation
 - Land ownership
 - Environmental impacts

HOW ARE YOU MINIMIZING POTENTIAL IMPACTS TO THE ENVIRONMENT?

- At all our facilities, we strive to exemplify environmental leadership through environmental compliance and continuous improvement.
- Our design and construction practices have systems, procedures and measures in place to minimize and control potential impacts to the environment.
- We engaged a third party to assess the impact of the project on:
 - wildlife
 - vegetation
 - historical resources
 - wetlands
 - soils
- All municipally, provincially and federally required environmental approvals will be obtained prior to construction.

WHAT CAN I EXPECT DURING CONSTRUCTION?

VISUAL

- You can expect to see activity that is typical to construction, including company / contractor vehicles and equipment along E.L. Smith Road.
- This includes trucks and other industrial equipment necessary to install the solar panels, foundations and associated electrical infrastructure.

CONSTRUCTION NOISE

- Work will create typical noise associated with construction.
- We will take measures to ensure we comply with the City of Edmonton's *Community Standards Bylaw for Noise Control* and the Alberta Utilities Commission (AUC) *Rule 012 for Noise Control*.

WORK SPACE

- All of the planned work will take place within EPCOR's property line and existing fenced boundary.
- All work areas will be safe and secure.

VEGETATION REMOVAL

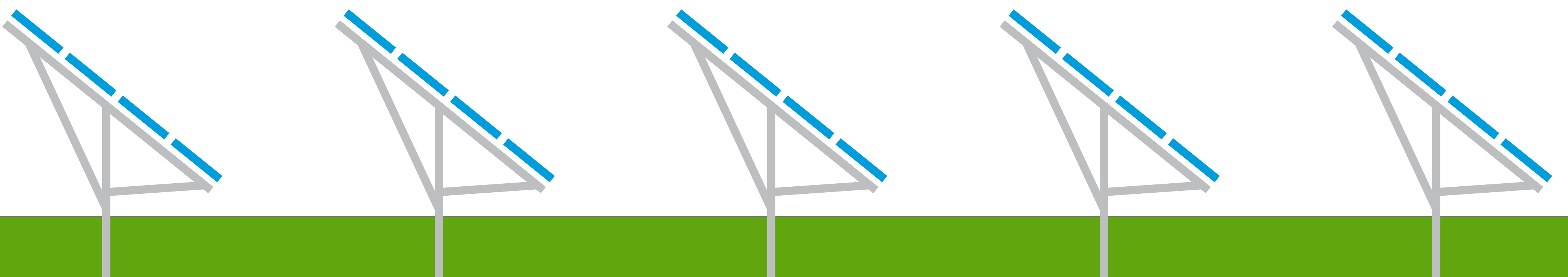
- In order to install the solar panels and ensure adequate sunlight, some trees and tall shrubs will be removed.
- Trees on the riverbank and the small forest to the west will not be removed.
- Native shrub and grass roots will remain in place and reseeded if damaged during construction activities.

HOURS OF WORK

- Monday to Friday, 7:30 a.m. to 5:00 p.m.
- Occasional evening and weekend work may be required.

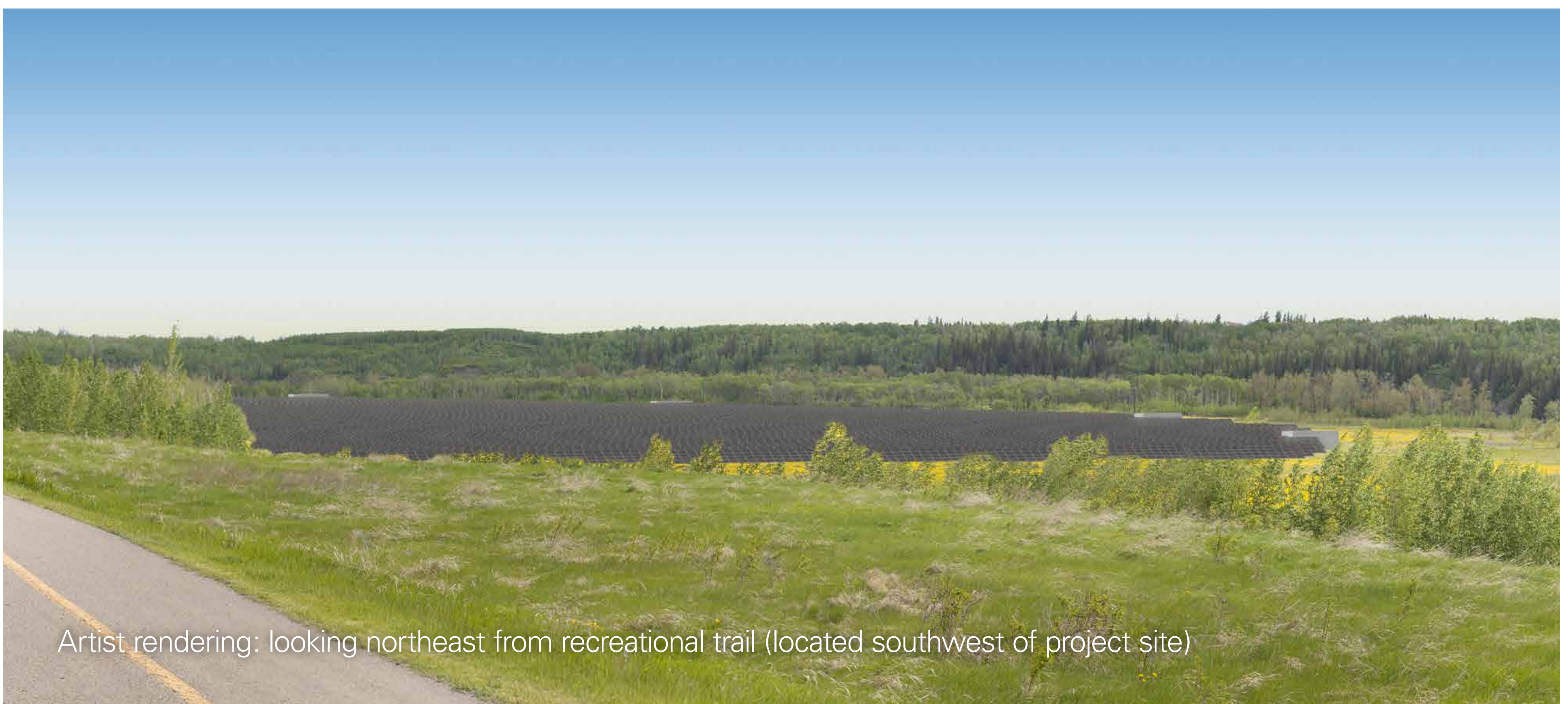
TRAIL CLOSURES

- We do not anticipate any impact to existing paths and trails near the E.L. Smith Water Treatment Plant as a result of this work.





Artist rendering: looking west from recreational trail (located east of project site, across river)



Artist rendering: looking northeast from recreational trail (located southwest of project site)



Artist rendering: looking northeast from Anthony Henday (located southwest of project site)

ABOUT THE SOLAR FARM

HOW MUCH POWER WILL IT GENERATE?

- The proposed solar farm has the capacity to produce up to 12 megawatts (MW) and approximately 20,000 MWh annually.
- This is the equivalent of powering over 2,800 Alberta homes each year.

DO WE HAVE ENOUGH SUNNY DAYS IN ALBERTA?

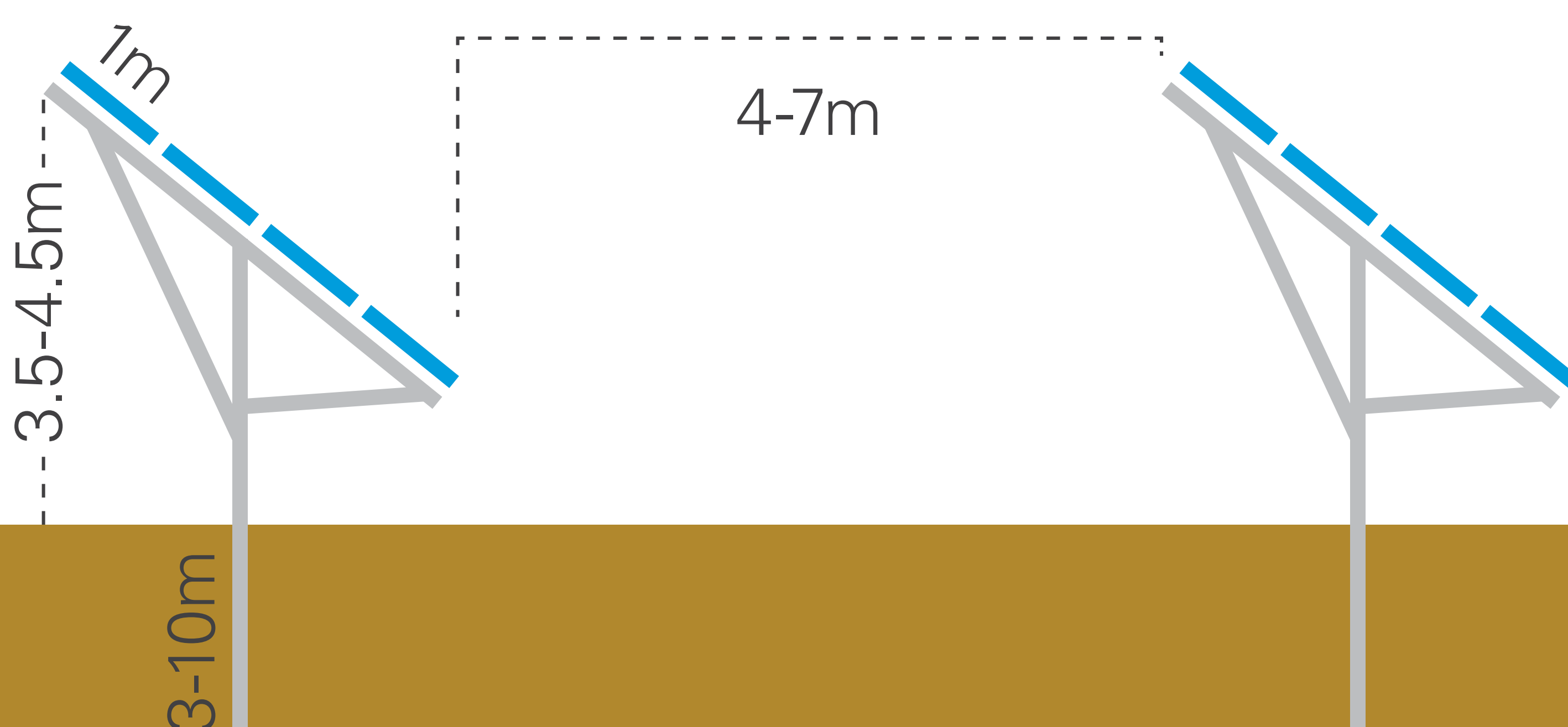
- In Alberta, solar power efficiency and output is much higher than in other geographical locations in Canada.
- We are using historical weather data to create a design that will maximize generation performance given our local weather conditions and specific site topography.

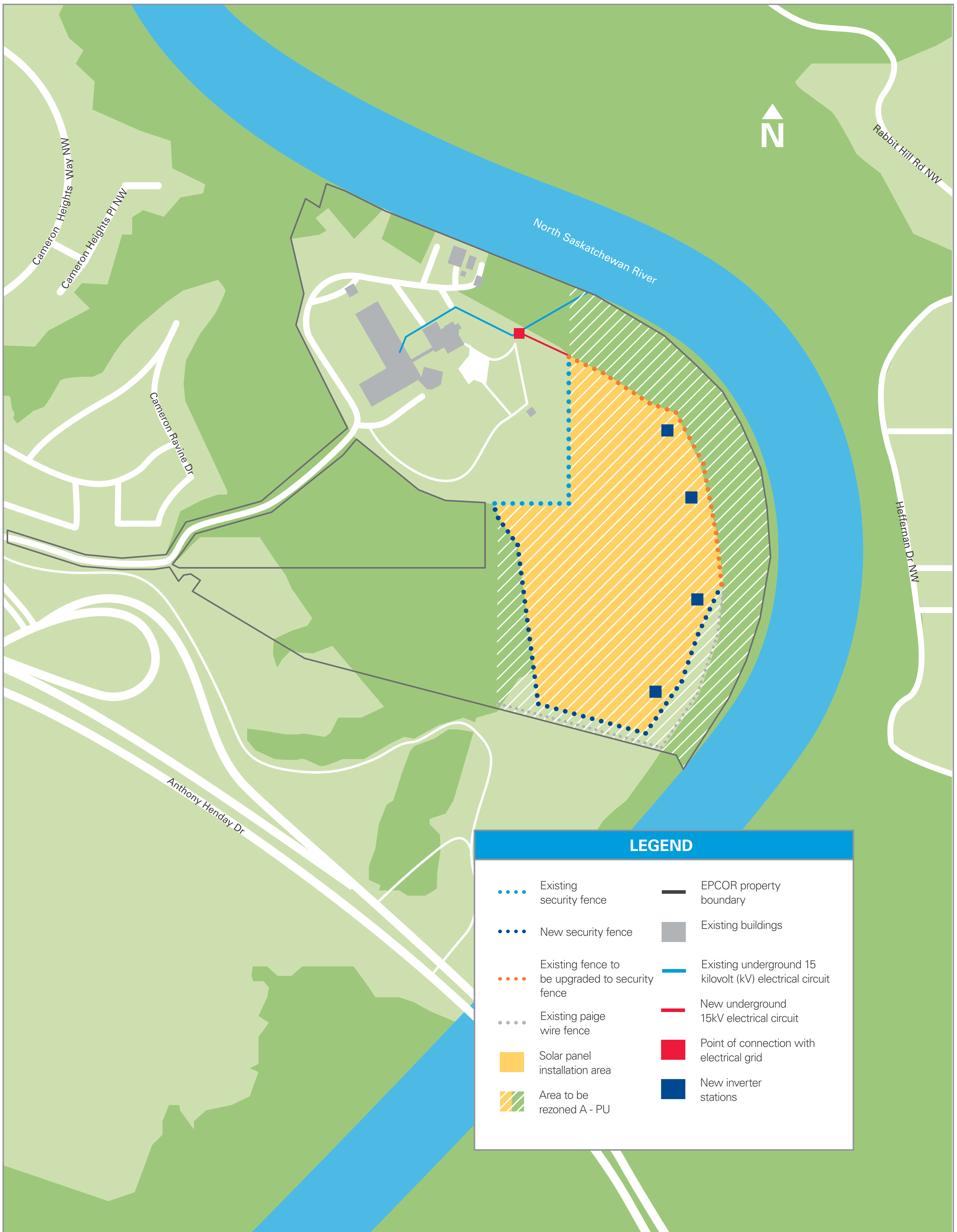
WILL THE SOLAR PANELS CAUSE GLARE?

- The panels are designed to absorb as much light as possible and are constructed with anti-reflection coating. In certain situations, the glass surfaces of the panels can produce some glint and glare.
- A third-party completed a *Glare Study* to assess the level of glare created by the proposed solar farm. The results told us that the project is expected to have either no glare or low levels of glare at most locations.

HOW NOISY WILL IT BE?

- The inverter stations are the only equipment that will generate some sound. To help mitigate the issue, we will house the inverters within enclosures.
- We have completed a *Noise Impact Assessment* to ensure that the proposed solar farm does not exceed permissible sound levels.
- We do not anticipate an increased level of noise in the area as a result of the project.





LEGEND

- | | | | |
|-------|---|---|--|
| | Existing security fence | — | EPCOR property boundary |
| | New security fence | ■ | Existing buildings |
| | Existing fence to be upgraded to security fence | — | Existing underground 15 kilovolt (kV) electrical circuit |
| | Existing paige wire fence | — | New underground 15kV electrical circuit |
| ■ | Solar panel installation area | ■ | Point of connection with electrical grid |
| ■ | Area to be rezoned A - PU | ■ | New inverter stations |