Bright Meadows Solar Project

Revolve
Renewable Power

Welcome to our Open House!

Our knowledgeable team is here to provide you with information about the project, listen to your feedback and answer your questions about this exciting project.

Thank you for attending!

Project Proponent

Revolve Renewable Power

- Revolve Renewable Power (Revolve) is a publicly listed and Canadian-owned renewable energy company founded in 2012
- Revolve has more than 3000 MW of renewable projects in development or in operation across Canada, the United States, and Mexico
- In 2023, Revolve entered the Alberta market with the acquisition of the Box Springs (6 MW) wind farm located near Medicine Hat, and also owns and operates two run-of-river hydro sites in BC
- With its own project team, and working with Bright Diamond Consulting, Revolve has a project team with over 20 years of renewable project development experience in Alberta

COMPANY HIGHLIGHTS

Canadian public company listed on the Toronto Venture Stock Exchange, established in 2012 by highly experienced management team.

Operating portfolio of 11MW's including hydro and wind projects in B.C. and Alberta selling electricity under power purchase agreements of 10 to 35 years.

Diversified portfolio of 3.1GWs of development assets across Canda, US & Mexico covering wind, solar, hydro and battery storage.

Strong track record of successful development of utility-scale solar and wind projects with 1.55GWs developed and sold to international utilities.

Growing distributed generation business with pipeline of 150MW's+ focused on behind the meter energy solutions for mid-large sized businesses across its key markets.

Project Location

Location:	Approx. 5 km NW of Falun (5 km east of Pigeon Lake)
Land Use of Property:	Pasture (Cattle Grazing)
Closest Road to site:	Intersection of Range Rd 274 & Township Rd 464
Residences within half-mile:	Three (3)

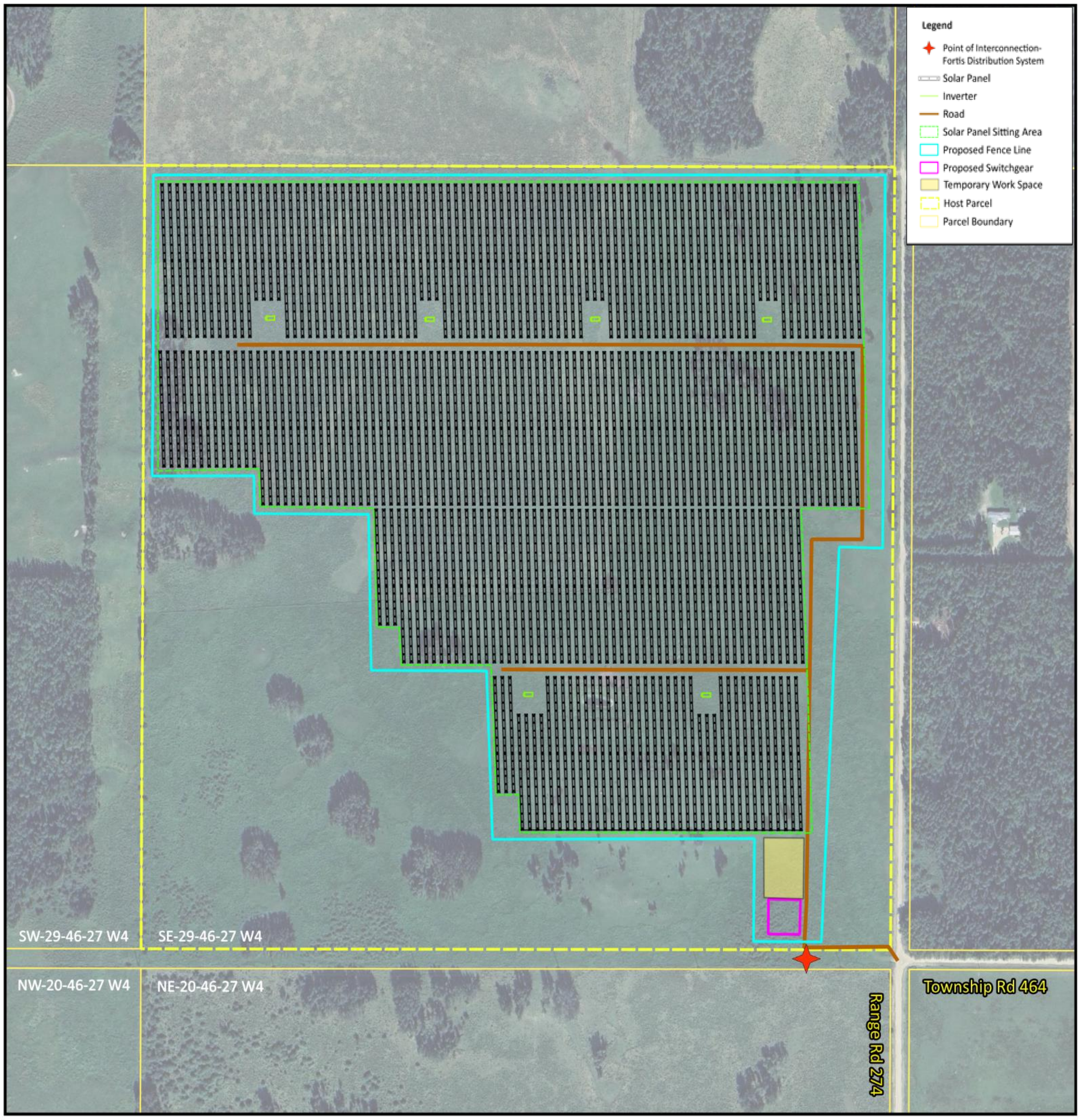
Revolve
Renewable Power

Site Selection Criteria

Access to Grid:	Close to Pigeon Lake 964S substation and proximity to load growth (Edmonton)
Land Use:	Land use in the area consists primarily of pasture lands; lower agricultural value
Wildlife & Habitat:	Field surveys show environmental habitat and wildlife risk is low
Human Environment:	Relatively lower residential density
Business Advantage:	Low project competition within the area

Revolve
Renewable Power

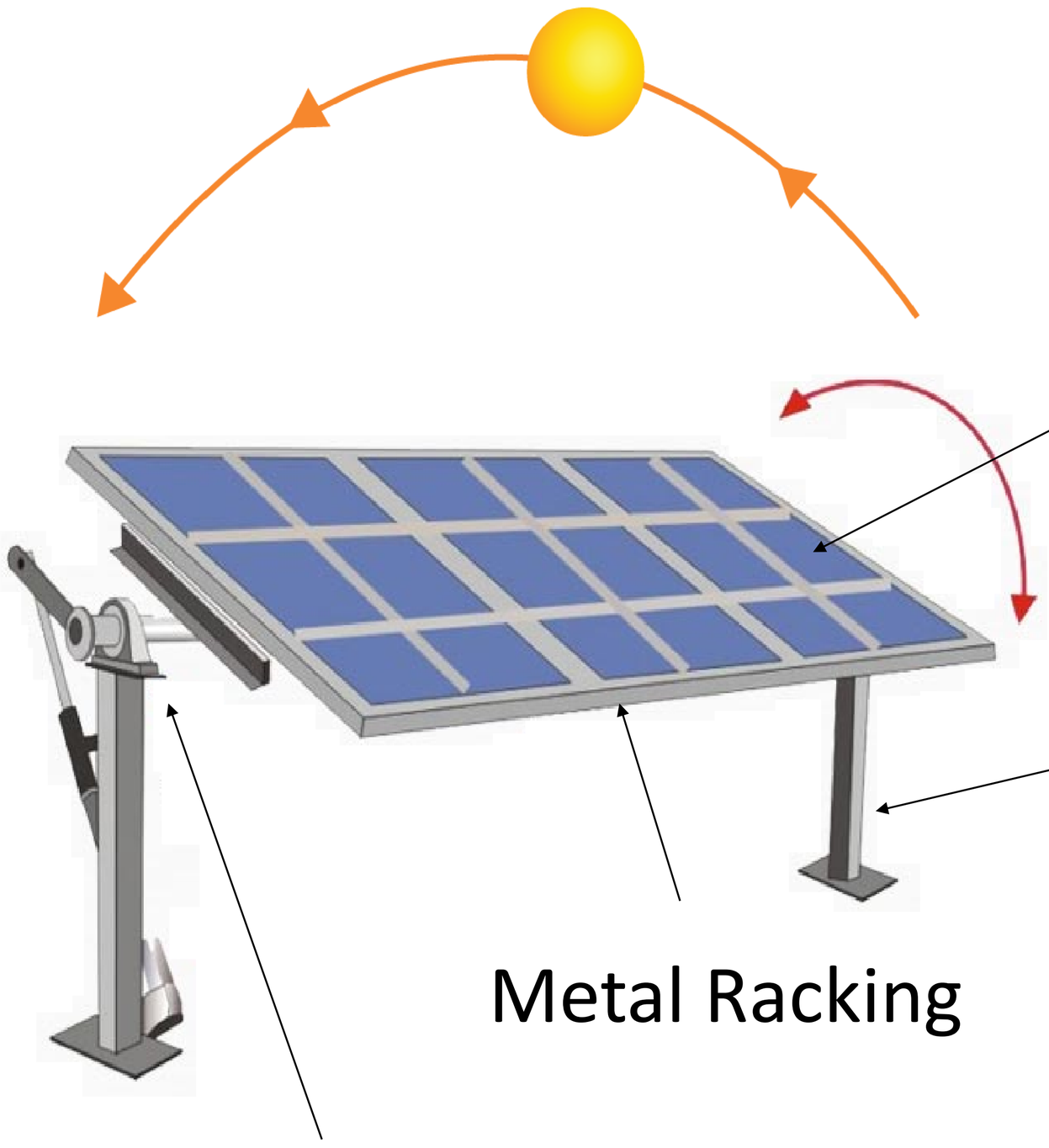
Preliminary Site Design



Size of Project:	~31,000 solar panels
Type:	Single-Axis Tracker (sun-tracking system)
Power:	Approx. 30,000 MWh/yr (enough for ~3,000 typical Alberta homes)
Other Components:	Inverters, access road, project e-house
Interconnection:	Fortis distribution grid (25 kV) on-site

Revolve
Renewable Power

Solar System Components




Typical Switchgear


Typical Fencing

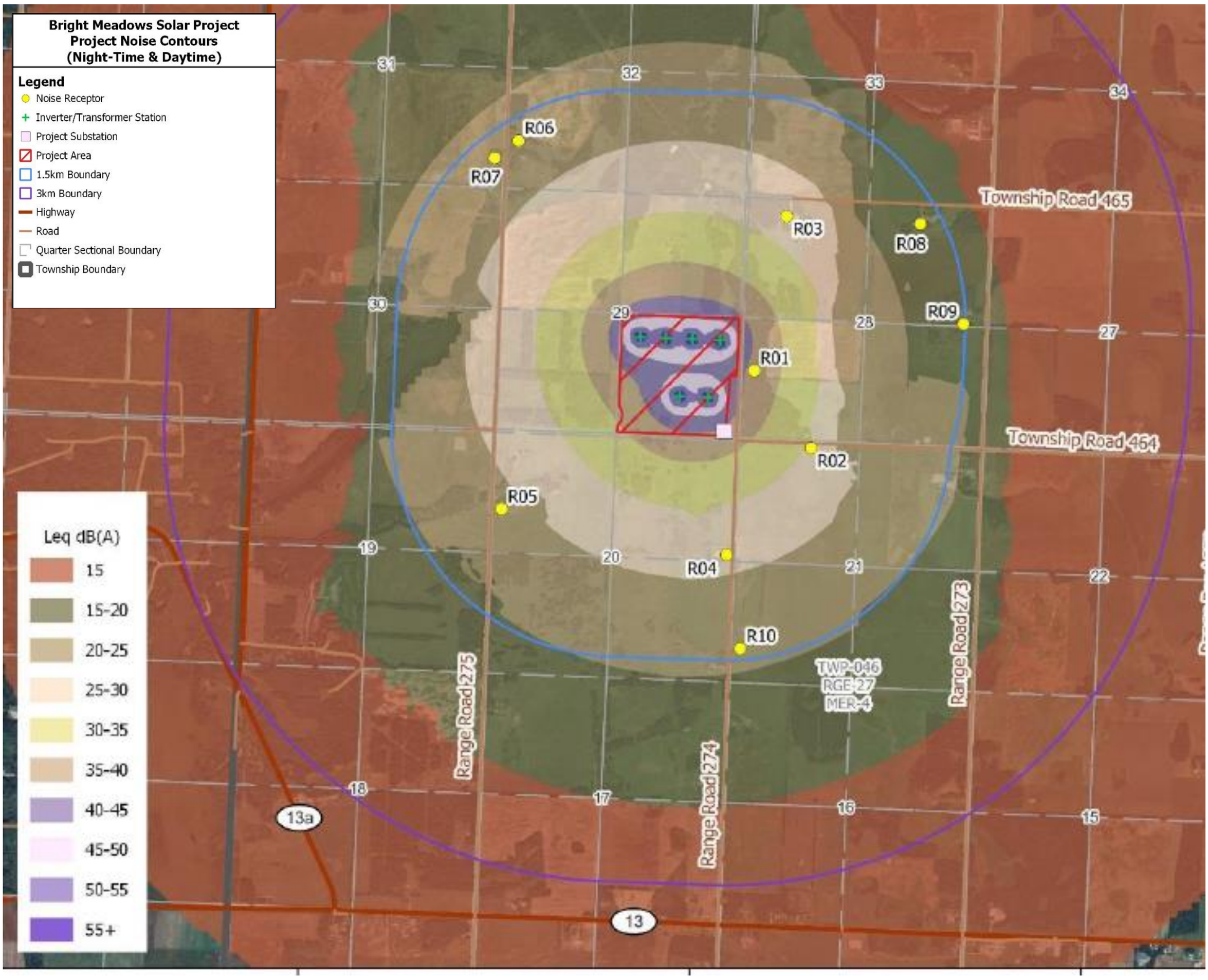

Access Road

Environmental Assessment Work

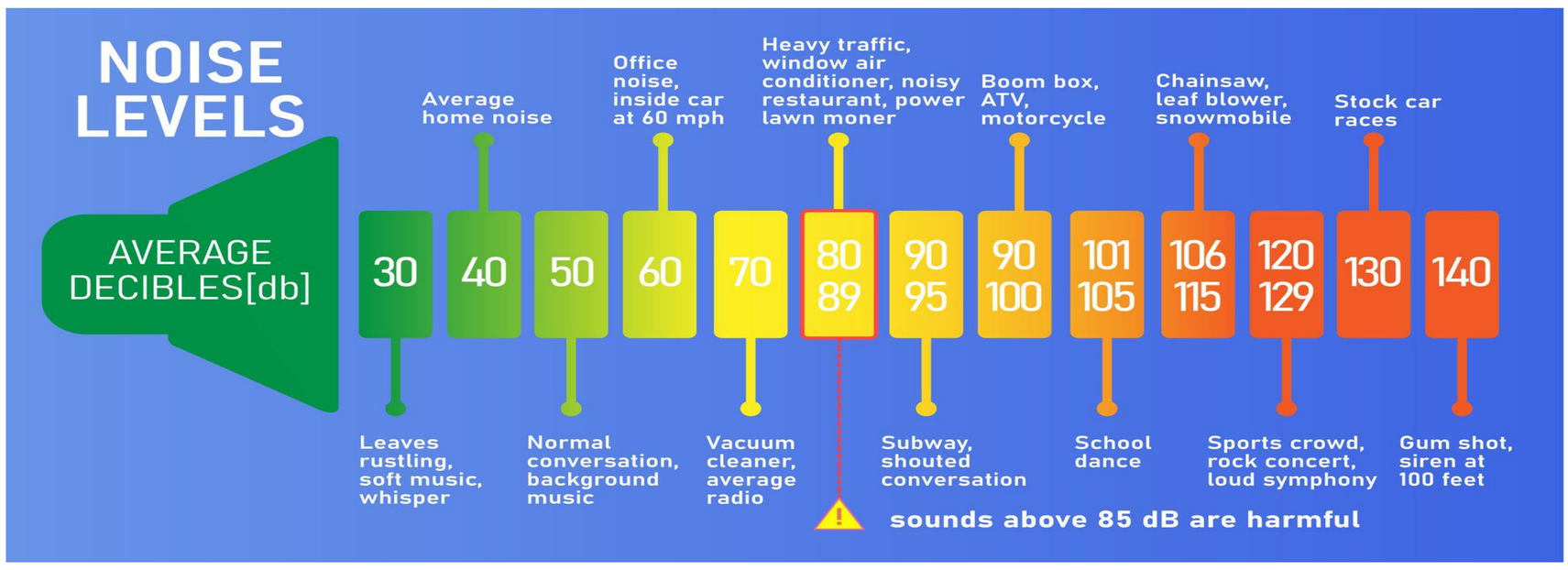
Project Activities:

- Wildlife field surveys completed from March until October 2022; refreshed in spring of 2024
- Alberta Environment and Protected Areas (AEPA) has assessed the site as an overall “low” wildlife risk
- A thorough environmental evaluation has been prepared for the project
- An environmental protection plan (EPP) and a Conservation & Reclamation Plan (C&R Plan) has also been prepared

Noise & Glare Assessment



- Noise modeled at 38.6 dBA just outside the facility perimeter (below the permissible level of 40 dBA)
- Noise emissions are modeled in most sensitive conditions (summer night-time), per AUC requirements
- Measurements were derived from industrial sound tests of the solar equipment chosen for the project
- Glare was assessed by expert: under worst-case modeling, project is unlikely to pose risks to either nearby road use or nearby homes



Consultation & Engagement

- Provincial Regulations require engagement with local landowners (within 800m) and affected stakeholders
- A project information package was sent to all direct neighbours and stakeholders to the solar project in November 2024
- A project-specific website was set up which has all documentation about the project. Please visit:

www.brightmeadowssolar.ca

- A consultation summary report will be prepared and presented to the AUC in January to show all of the consultation work done for the project

County Policy & Regulations

- Location complies with Wetaskiwin Municipal Development Plan:

  (1) Land has low agricultural yield and

  (2) the project aligns with County's goals to support a range of resilient and sustainable energy options

- Proposed project is currently on land used for grazing because of its low farmland value

- Site complies with county land use bylaws (farmland assessment ratio of less than 40%)

- Site can continue to support grazing after project is complete

Emergency Response Planning

- Initial draft of an Emergency Response Plan (ERP) has been prepared for the project

- The ERP identifies preventative measures and protocol for response to typical emergencies such as medical, fire, construction hazards, electrical discharge, wildlife encounters, and natural disasters

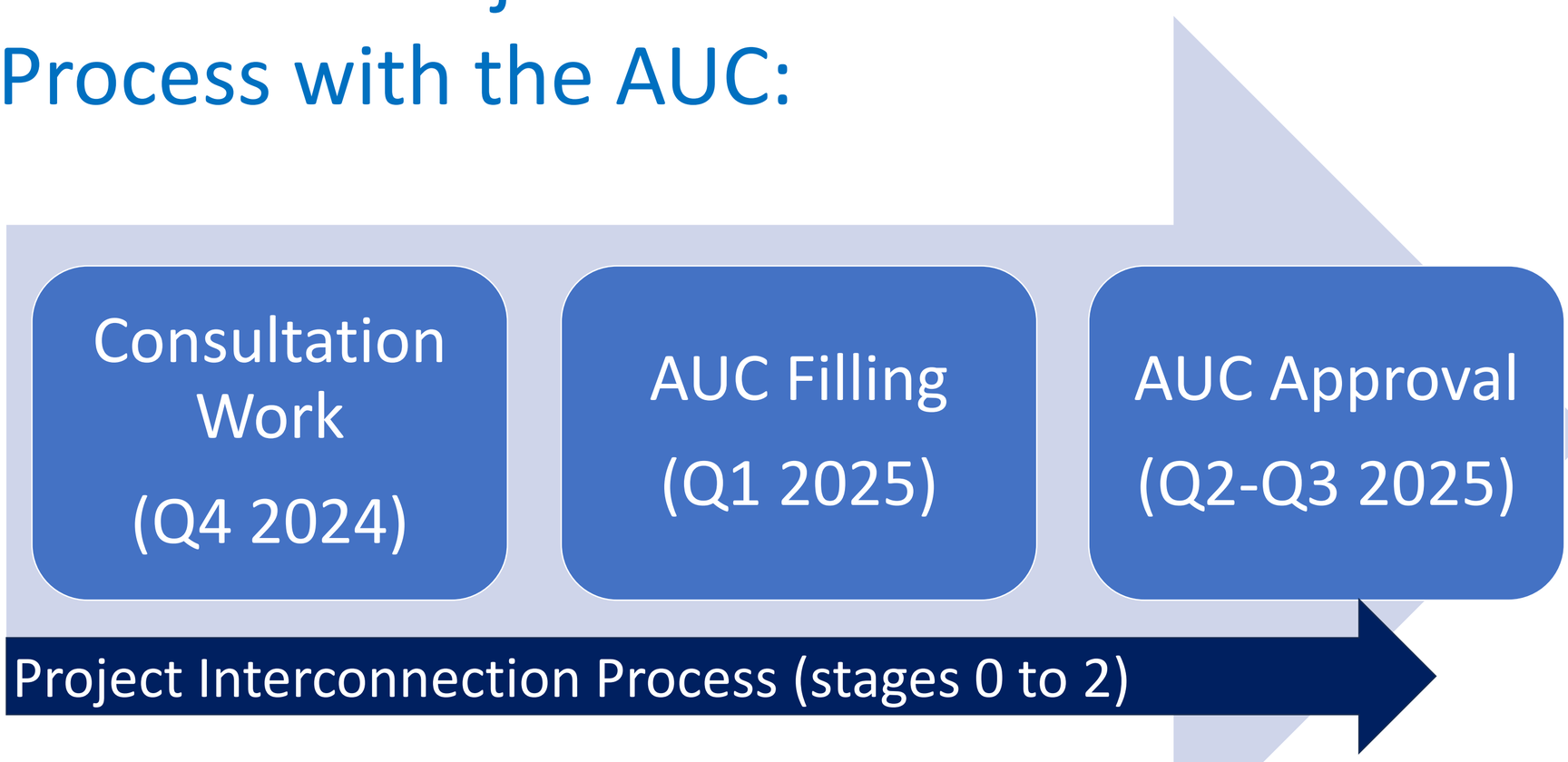
- Local emergency response planners have been engaged to review and help finalize the ERP prior to construction

- Final version of ERP will be provided to officials (fire chief, manager of emergency response, etc) prior to the start of construction and during operation of the facility

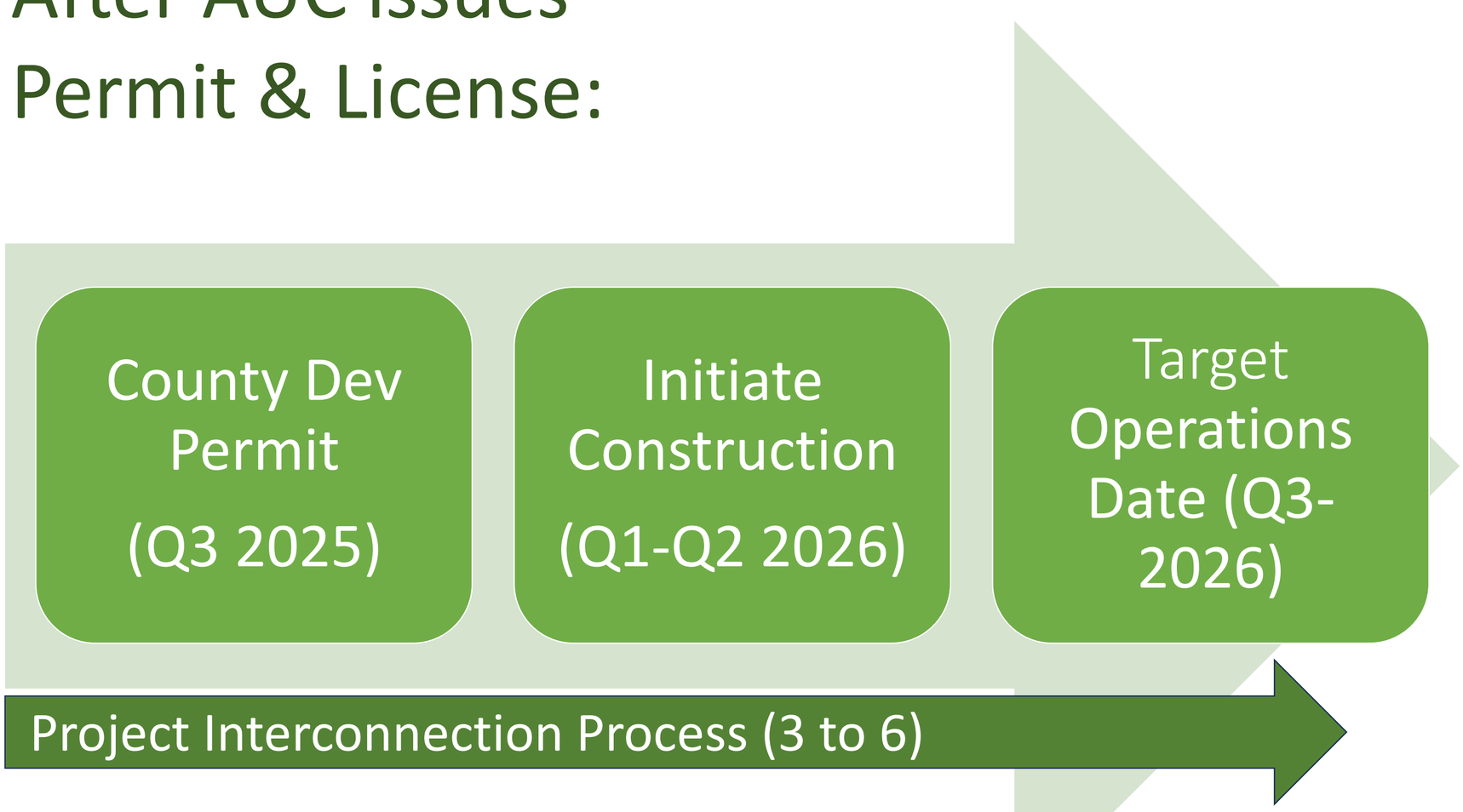
Revolve
Renewable Power

Project Schedule

Provincial Project Review Process with the AUC:

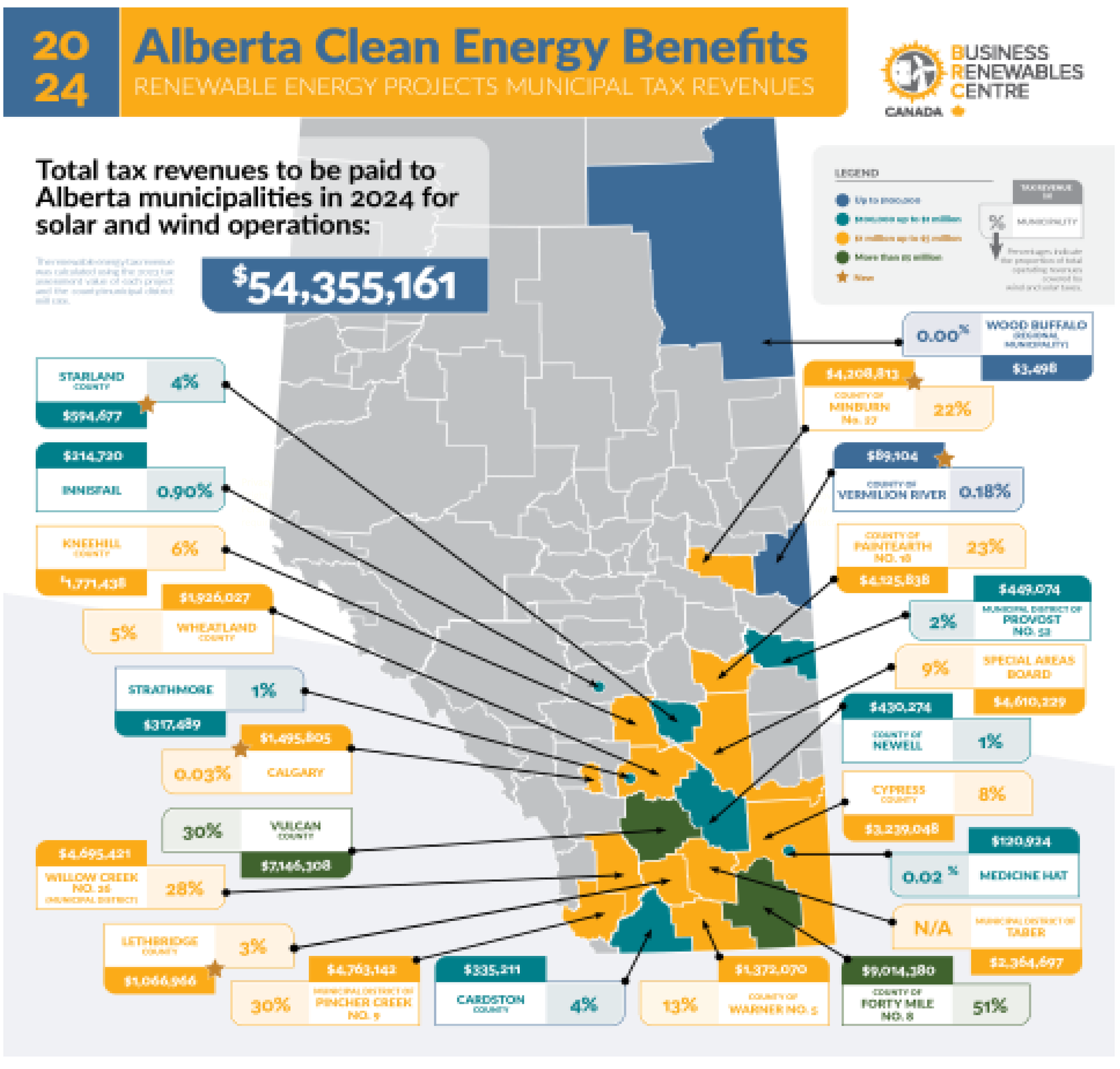


After AUC issues Permit & License:



Project Benefits

- **Low-Cost Power**: Solar power is one of the cheapest forms of new energy in Alberta
- **County Taxes:** The project will generate millions in new tax revenue to the County over the 30+ year life
- **Jobs & Investment:** Local construction work and several long-term site management positions which will invest millions of dollars locally
- **Environmental Benefits**: The project will emit no greenhouse gas emissions over the operational life and generate electricity, at stable cost, for decades



Solar Construction Work

Site Preparation:

- The land is cleared and graded, and access roads are built

Fencing and Security:

- A fence is installed around the site for security, typically with temporary surveillance during construction

Foundation Structures:

- Foundations are installed using piles or concrete, and racking mounting structures are assembled

Solar Panels:

- Panels are mounted onto the racking structure and electrical wiring is buried to connect the panels in arrays and circuits

Inverter and Transformer Installation:

- Inverters and transformers are installed to convert solar power from DC (direct current) to AC (alternating current) for the grid

Electrical Trenching and Cabling:

- Trenches are dug to lay electrical cables underground that connect the solar arrays of panels to the inverters and the grid