PACE Canada LP

Proposed Solar Projects
Prairie Mines and Royalty ULC
Reclaimed Land Mines

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PATHFINDER CLEAN ENERGY

Claude Mindorff
Director of Development
PACE Canada LP
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About Us

- Joint venture between Pathway Clean Energy Finder and Goldbeck Solar
- Develop and manage all aspects of solar power developments
- Storage and green hydrogen
- Growing Alberta’s pipeline of clean energy projects 300-500MW

Core Values

Collaboration
Aligning common goals with communities

Accountability
Sustainable energy solutions that create:

- Value within the community
- Enhance the environment
- Sustainable economic benefits

Passion
Positive conversations to solve problems and build consensus

- Embrace and drive positive change
- Constantly innovate within the entire development process

Our Projects

- Alberta has some of the best solar and wind resource in the country
- Stable, transparent & deregulated energy market
- Sites selected based on proximity to grid and suitability of land for solar farm development
- Developing a pipeline of opportunities at transmission and distribution scale
- Long-term land asset management strategies

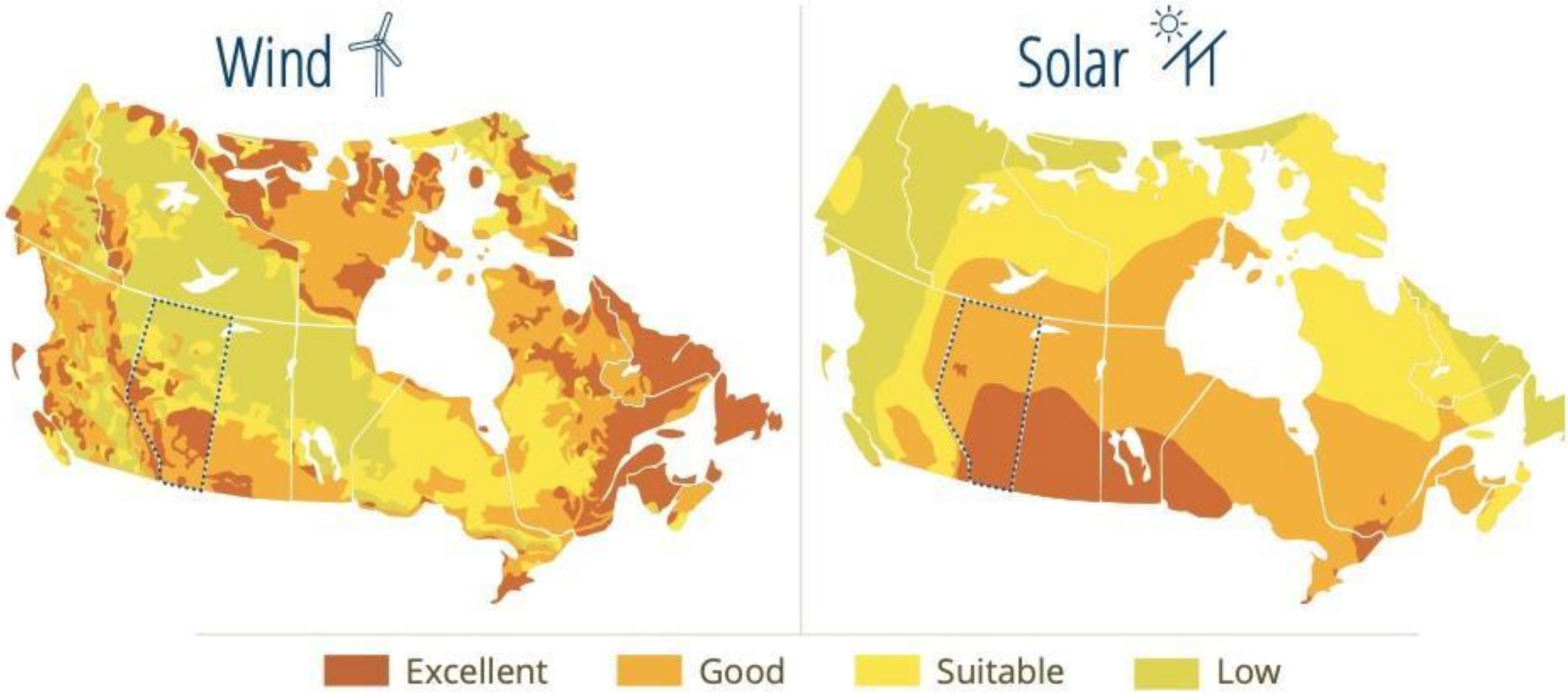

Figure 2. Map of renewable resources in Canada

Source: Pembina Institute[6]

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Alberta Projects

In Construction

- Joffre (Phase 1-22 MW, Phase II 25 MW)
- Youngstown (6MW)

In Development

- Sheerness (13 MW)
- Caroline (16.1 MW)
- Brooks (Salt Flats) (~18.5MW)

Proposed PMRU Solar Farms

- Sheerness Solar 1 -13 MW (permitted)
- Sheerness Solar 3 - Behind the Meter - >5 MW
- Mannix Mine 1 - 60 MW
- Sheerness Solar 3 - 395 MW

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ATCO Connection Assessment

ATCO performed a Category B N-1 Load analysis to assess impact of two proposed generation and load connection sites:

1. Mannix Mine in Alliance BAttle river (Ares 36)
2. Anderson connection in Sheerness (Area 43)

Transmission facilities were studies and monitored for N-1 contingency violations of the reliability criteria. (we can connect!)

Sheerness Solar 1

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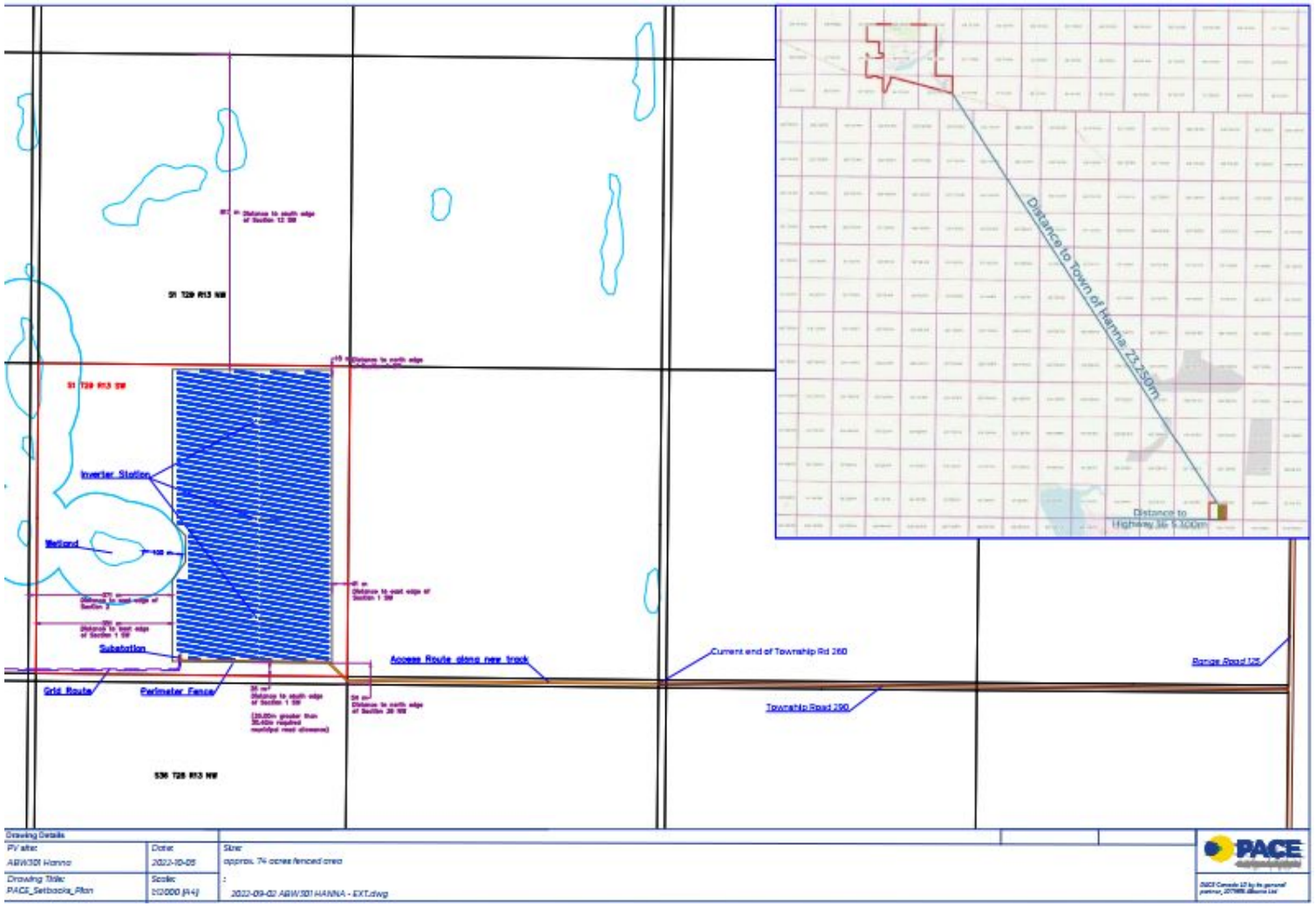
- Fully permitted and in final engineering stage
- In Service date (ISD) 12/23



Sheerness Solar 3

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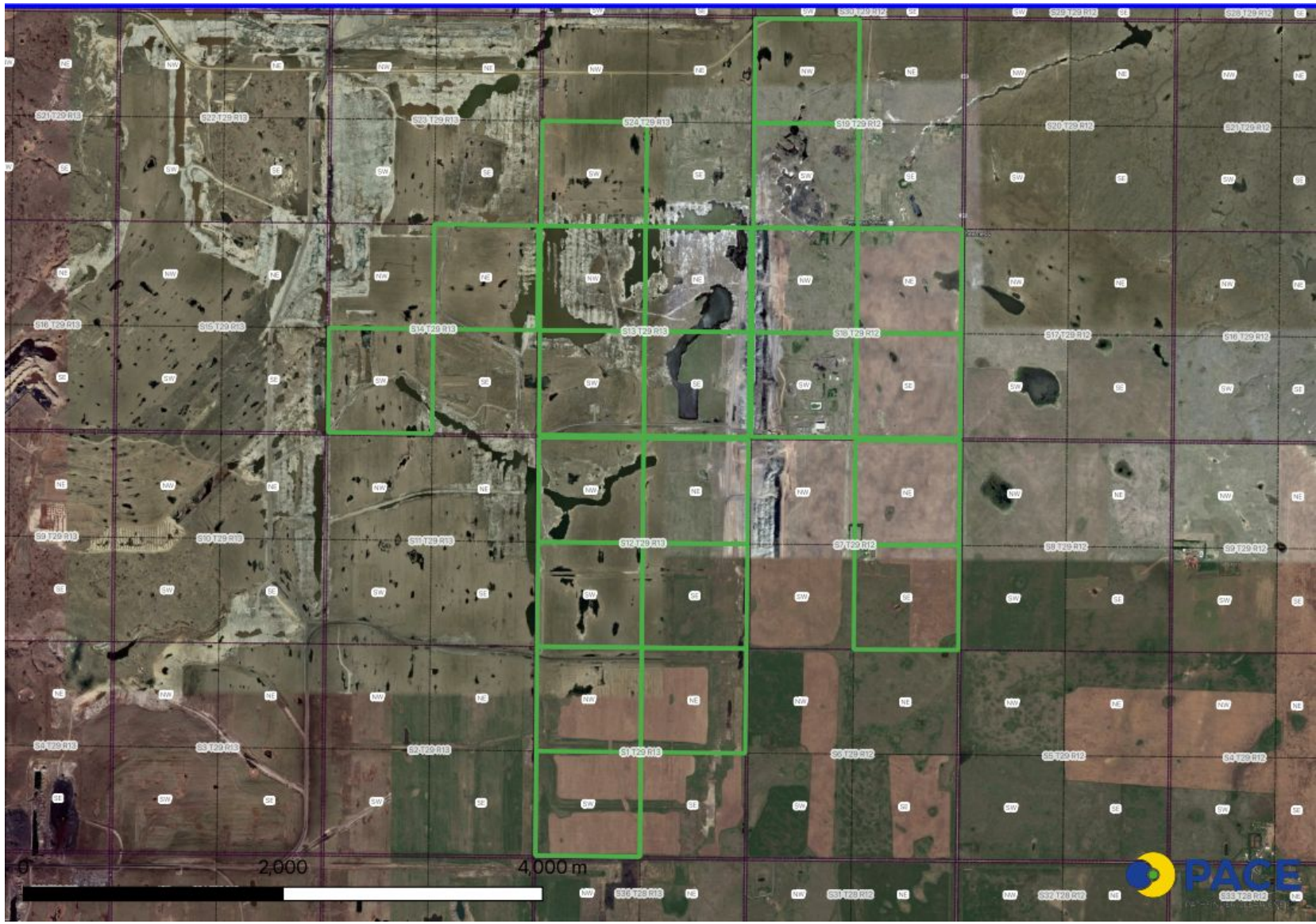
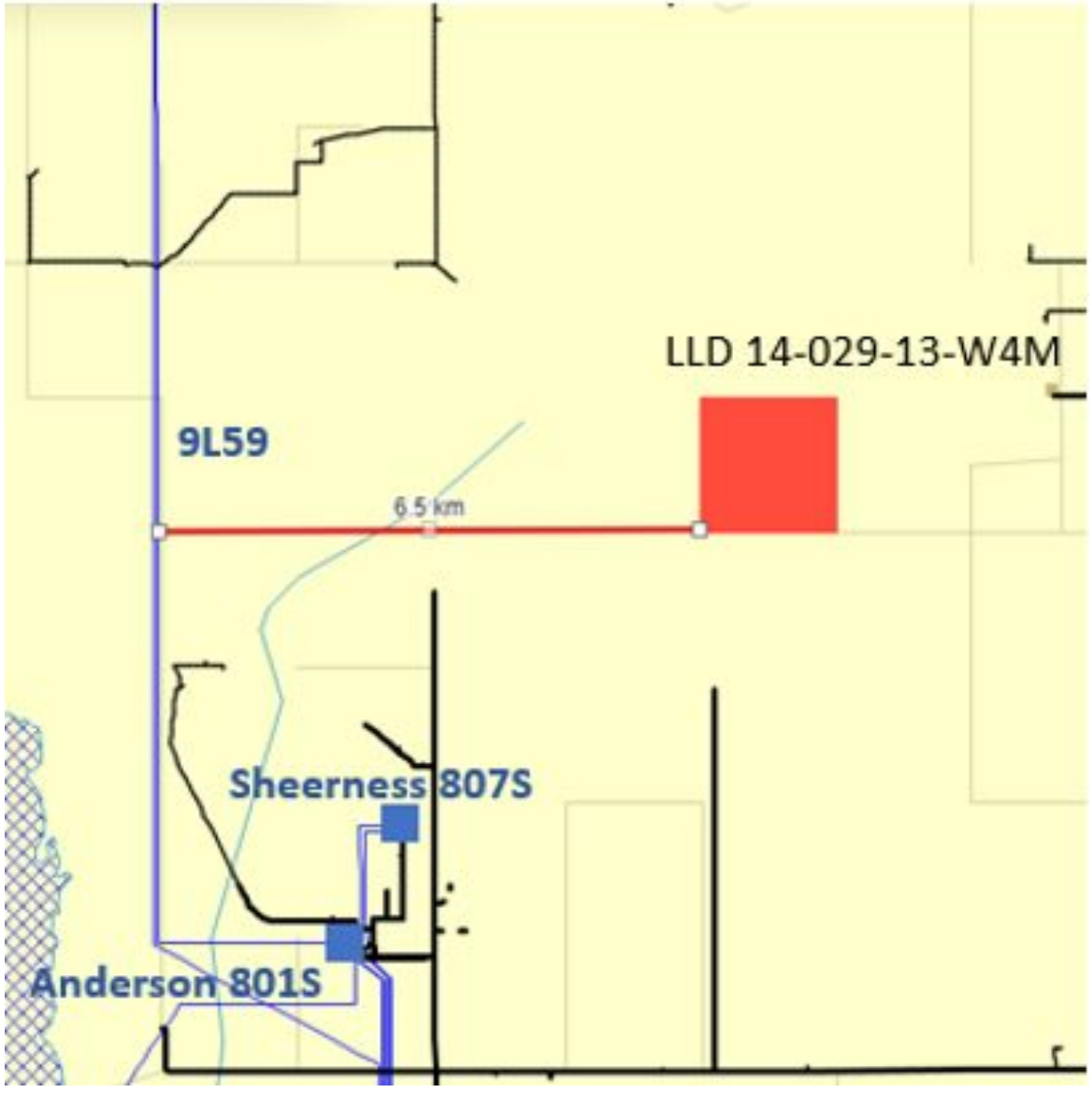
- Proposed 395M<E
- In-service date 12/25
- Use of remaining PMRU lands after reclamation



Sheerness Solar 3

- Proposed 395MW
- ATCO suggested 6.5 km study



Sheerness Solar 3

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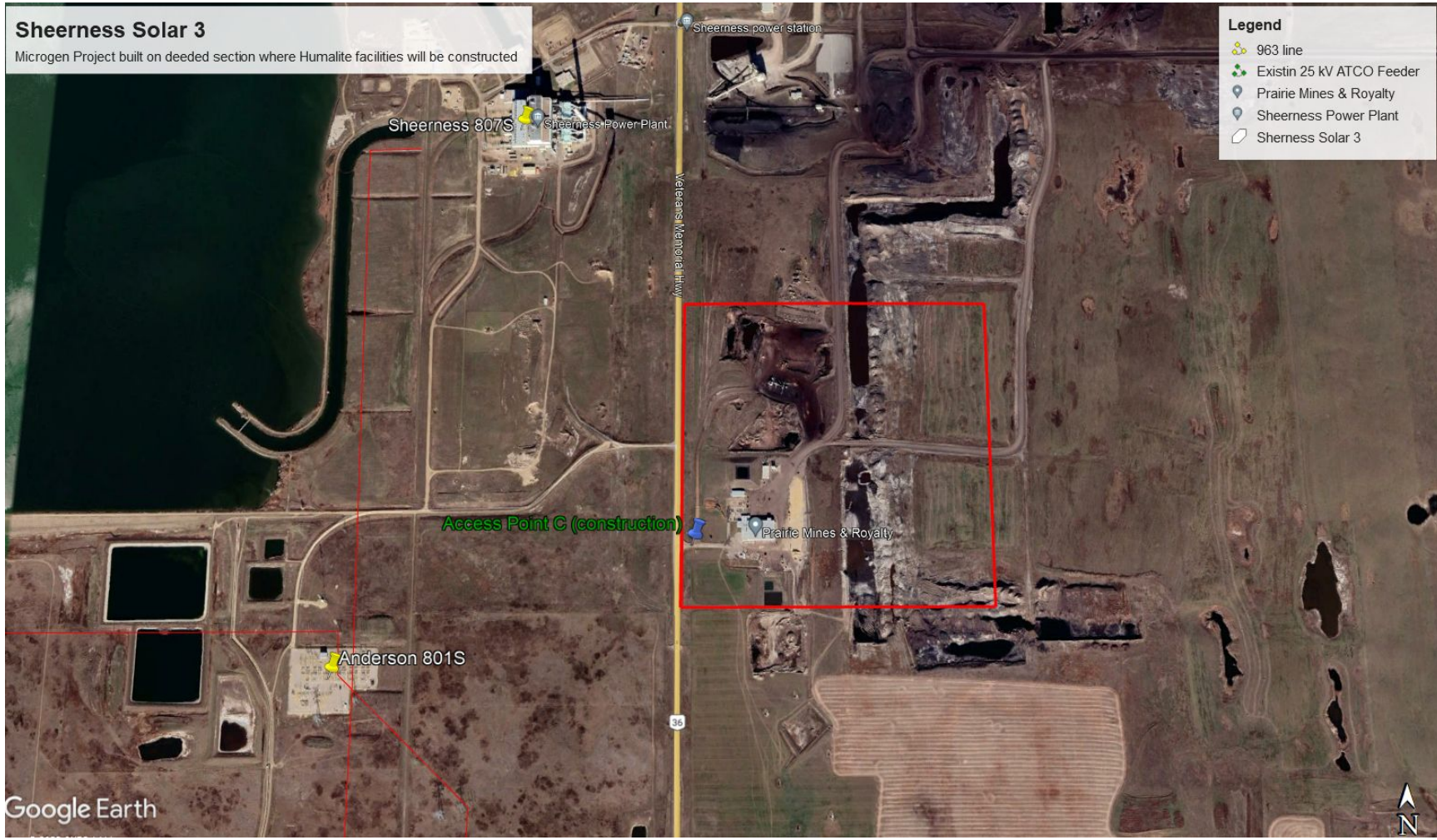
- Require an estimate of electrical load data and site selection.
- Assumed location around main building cluster at existing mine site.
- Behind the Fence Humalite, net zero project.
- In-service state 2023



Mannix Mine Solar 1

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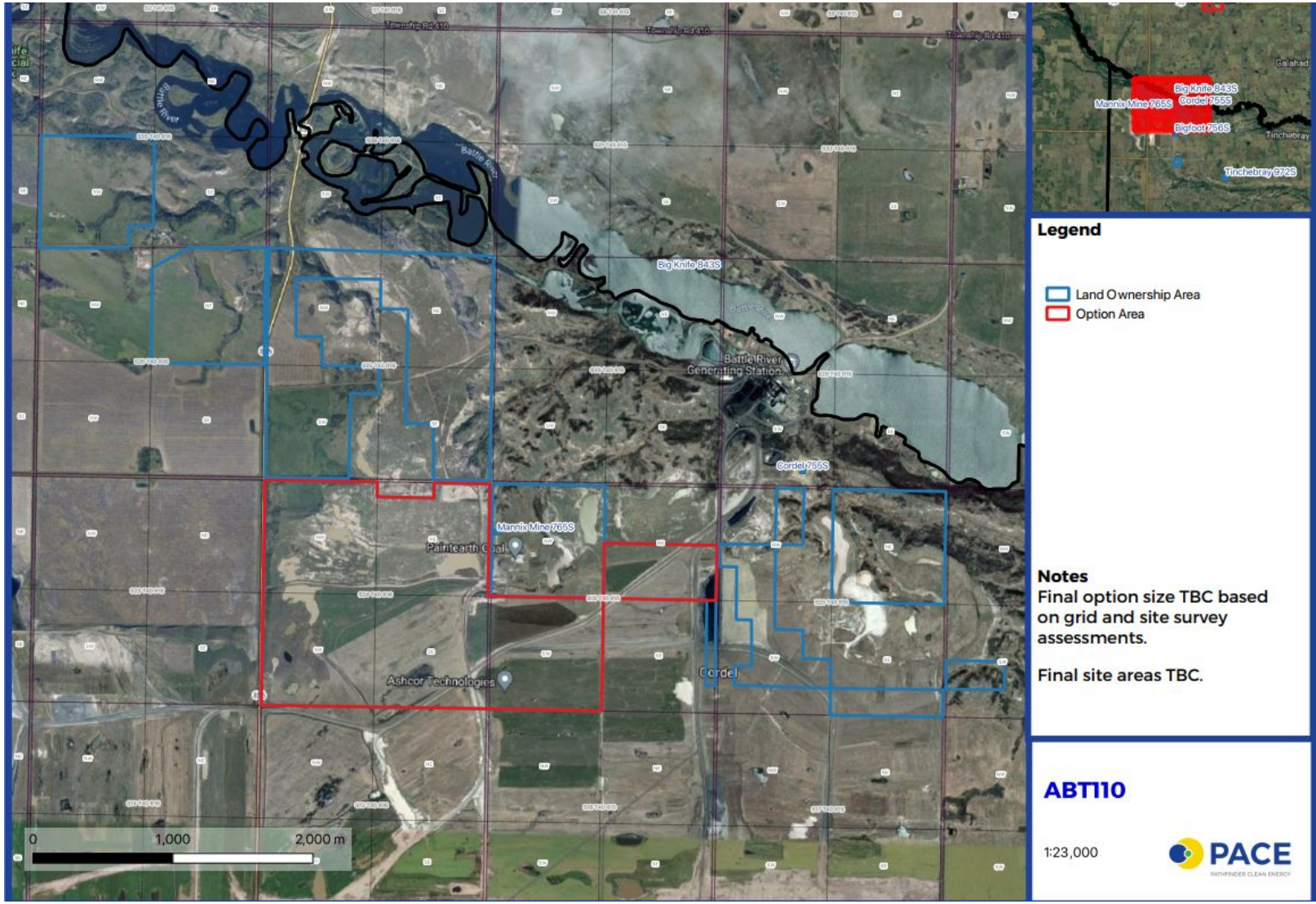
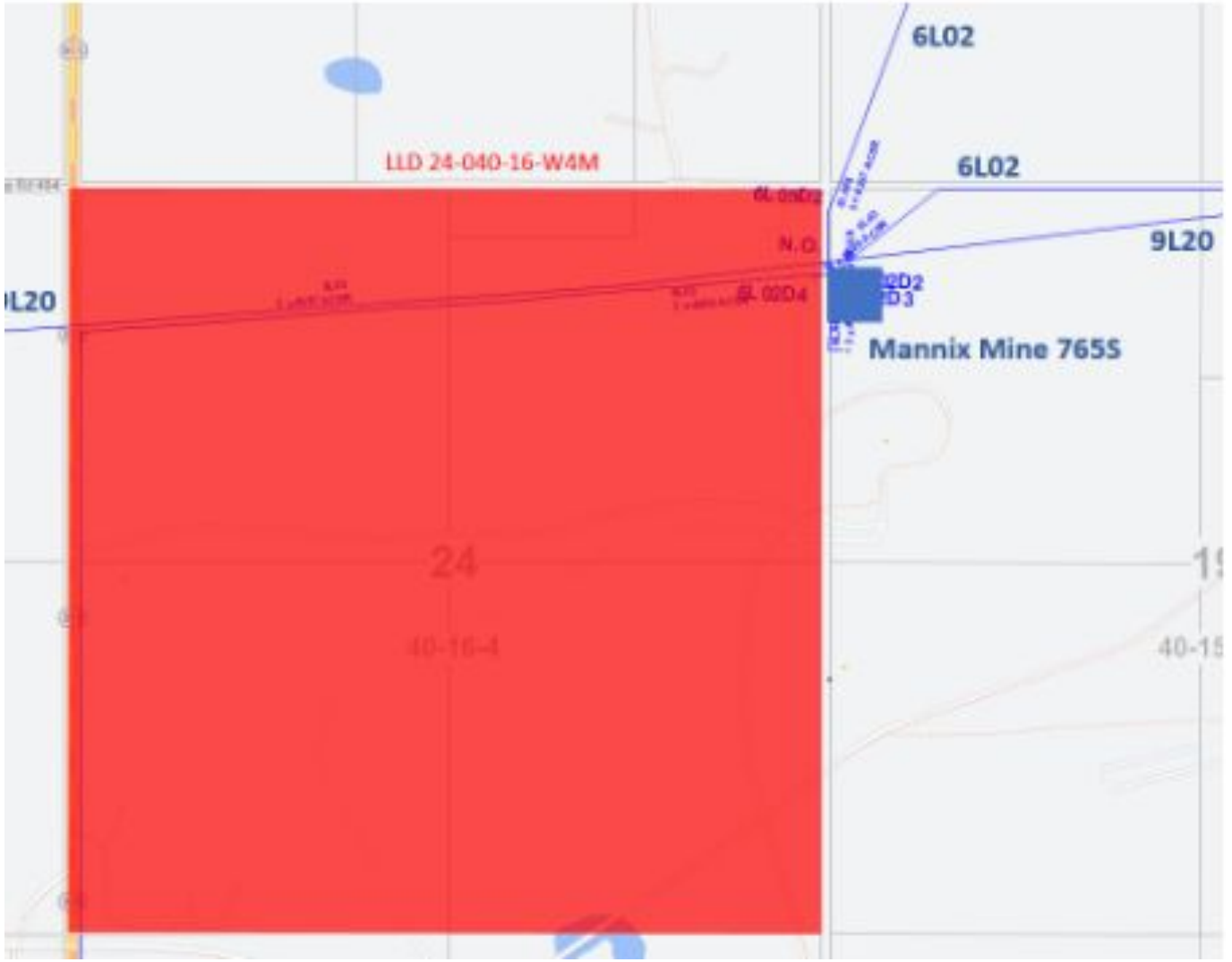
- Use of remaining PMRU lands already reclaimed
- Proposed 60MW
- In-service date 12/24



Mannix Mine Solar 1

- Results of N-1 study indicated we could tie into Mannix substation with less than dist.
- Line at 72kV substation voltage - ATCO suggested study route

Figure 2-1 LLD 24-040-16-W4M Mannix Mine Proposed Connection



Solar Farm Benefits

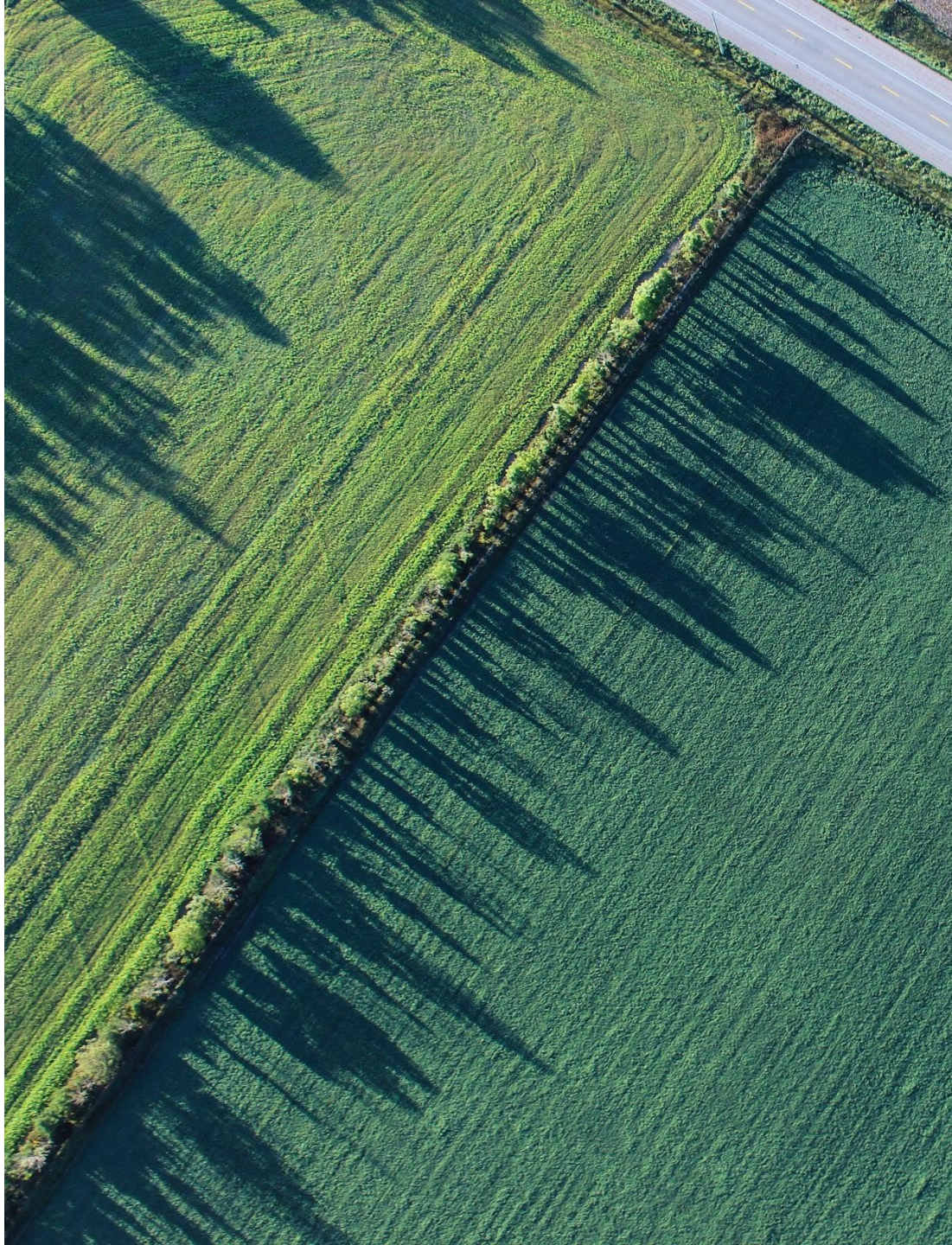
Community, Environmental and Economic Value

- Temporary construction jobs
- Full-time Operation and Maintenance jobs over the life of the project
- Significant contributions to the Municipal tax to grow AB's rural economies
- Non-traditional farm income to support the Agricultural sector
- Greenhouse gas reductions in support of sustainable dev goals
- Reduces water consumption for Albertans in the generation of their electricity needs
- Supports pollinator species, protects wetlands and allows for continued and diverse agricultural uses

Solar Farm Power Plant Development Process

All solar power plant developments must adhere to regulations and guidelines set out in Alberta Utilities Commission, Rule 007 and Rule 12:

- Public Consultations
- Noise Assessment
- Glint and Glare Assessment
- Viewscape modelling
- Environmental Assessment
- Municipal Permits
- We would include AER Overlapping Use permit process to be undertaken in Q1 2023



Typical Solar Farm Development Process

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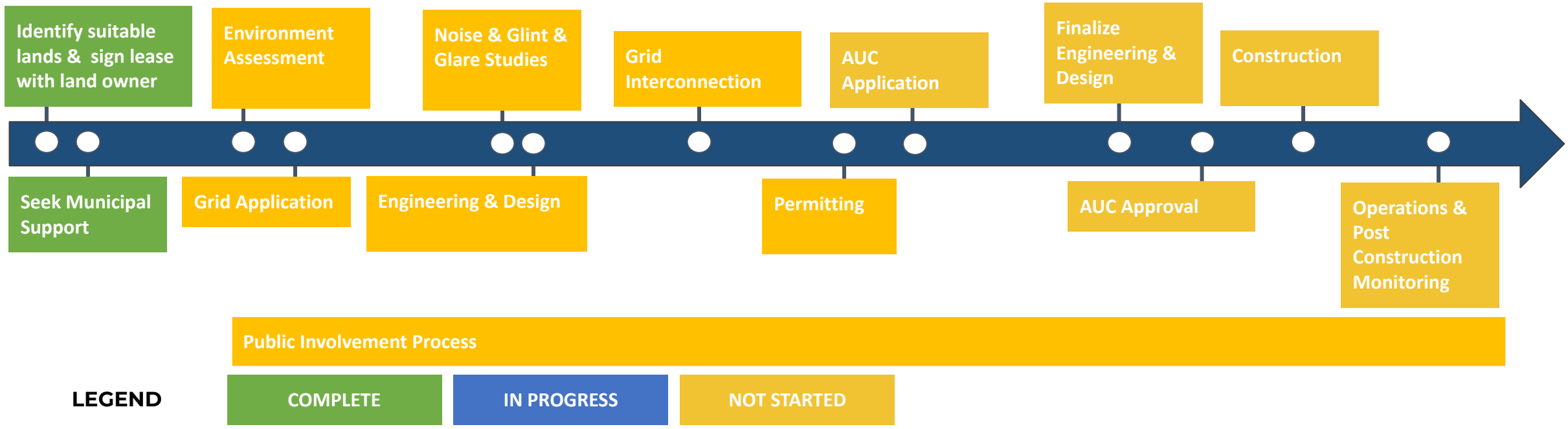
2-year permitting timeline for projects under 50 MW and a 3-year timeline for large transmission connected Projects.



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Benefits of PMRU & PACE collaboration

- Mutual sustainable development goals - every MWh of electricity avoids .52 tonnes CO2e.
- Same terms and lease arrangement as developed for Sheerness Solar 1.
- Supports the development of a Westmoreland Services division which can be offered to other Brownfield owners which brings Renewable Energy component to it.
- Net Zero Sheerness Solar 2 for Humalite production offer substantial savings (25-40%) on electricity deliveries from grid as project is “net metered”.

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Benefits of PMRU and PACE collaboration

- Continued use of lands for agriculture under the emerging practice of Agrivoltaics which PACE is pioneering in Canada
- Potential to irrigate lands and increase terminal valuer for PMRU.
- Potential for co-investment by Westmoreland if desired but not required
- Partnership with a well established and funded Renewable Energy Developer
- Revenue from Solar farms at $1000/acre (based on 4.53 acres/MW)
  - Mannix Mine (60 MW)= year 1 $271,800.00
  - Sheerness 3 (395 MW) = year 1 $1,947,350.00
  - Sheerness 1 (13 MW)= year 1 $56, 890.00

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Next steps

- Develop application for Overlapping Use on both sites Q1 2023 (6 month duration)
- Sign Lease/Option for Mannix Mine
- Sign MOU or Lease/Option around Anderson which gives us site control as required by AESO for Transmission application
- Approach Heartland about water use from their license for either/or hydrogen production and irrigation (alternately) we could use stormwater run off for some irrigation

Questions?

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Claude Mindorff
Director of Development
PACE Canada LP
claude.mindorff@pathfinderce.com
403-793-5365