Flipi Open House

Thursday, November 13th

Welcome to TransAlta's Flipi Combined Cycle Power Plant Open House

Please sign in at the reception table and explore the Project through our display boards.

Here with us today:

- Project Team from TransAlta
- Technical Consultants including:
  - Nexilon Power Inc.
  - Horizon Compliance Group Inc.
  - Maskwa Environmental Consulting Inc.
  - Strum Consulting
  - Green Cat
  - RWDI Inc.
  - Neighbourly Advisory

Have questions? Ask our team members here today, fill out a feedback form available at the reception table, or reach out via:

stakeholderengagement@transalta.com
1-877-547-3365, Ext 1

Who is TransAlta?

- TransAlta Corporation is one of Canada's largest publicly traded power generators, owning and operating a diverse fleet across Canada, the United States and Western Australia.
- At TransAlta, the only production is safe production. Safe, reliable and incident-free operations are critical to our success.
- With a history of over 100 years, our portfolio includes hydro, wind, solar, battery storage and natural gas generation, complemented by our world-class asset optimization and energy marketing capabilities.
- We are committed to providing the energy needed for today and the future – a balanced, technology-agnostic approach that includes renewable and gas-fired generation.

TransAlta's South Hedland Facility

Land Acknowledgement

We are privileged and grateful to be able to conduct our business on these lands today. We recognize and acknowledge these lands are stewarded by the Sioux, Cree and Saulteaux speaking Nations of the area and the Otipemisiwak Metis Government. We acknowledge the many First Nations, Métis and Inuit peoples whose footsteps have marked these lands for generations, including the many places that we are joining from. We are grateful for the traditional Knowledge Keepers and Elders who are still with us today and those who have gone before us. We recognize the Lands as an act of reconciliation and gratitude to those whose territory we reside on or are visiting.

Project land at Flipi Site

Addressing Alberta's Evolving Electricity Demand

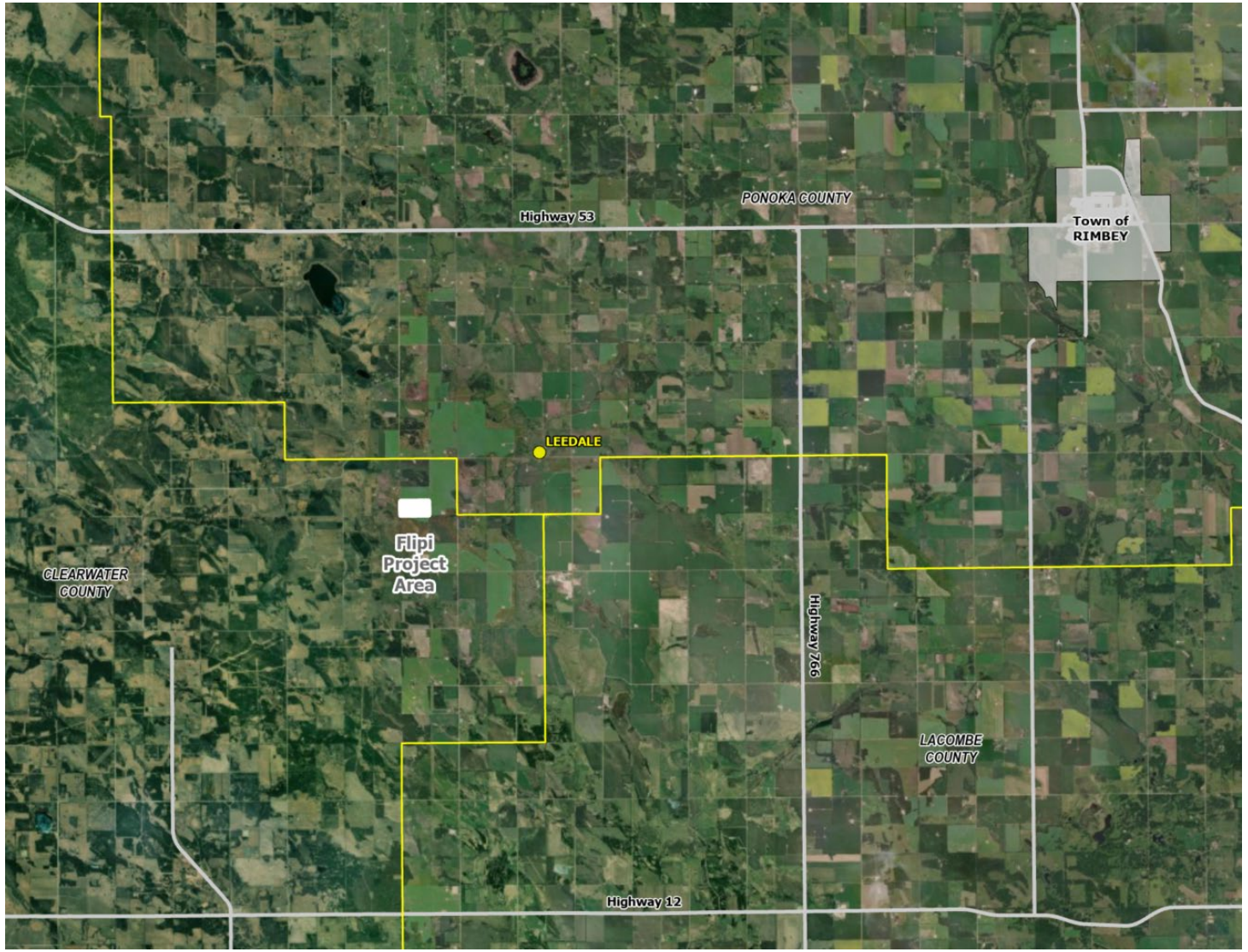
Alberta requires new resources to support **growing electricity needs** and **grid reliability**.

In response, TransAlta is developing the Flipi Power Plant Project, a Natural Gas Combined Cycle Power Plant in Clearwater County, providing lower-emitting **baseload** and **reliable** electricity generation.

Status of key regulatory approvals:

- **Power Plant, Substation & Transmission Line:**
  Applications submitted to the Alberta Utilities Commission (AUC).
- **Industrial Approval:**
  Application submitted to Alberta Environment and Protected Areas (AEPA); draft approval received.
- **Development Permit (Clearwater County):**
  Municipal development permit application forthcoming.

Flipi Power Plant Project Description



Map of project location

Project Location

Southwest corner of Section 33, Township 41, Range 4, West of the 5th Meridian (SW-33-41-04 W5M), approximately 18 km southwest of the Town of Rimbey, within **Clearwater County, Alberta.**

Project Footprint

13.2 hectares on site **compliant** with AUC land use requirements.

Interconnection

Electricity will be delivered to an existing **240 kV high-voltage** transmission line located just east of the Project's eastern boundary.

Security

Secure and enclosed site perimeter.

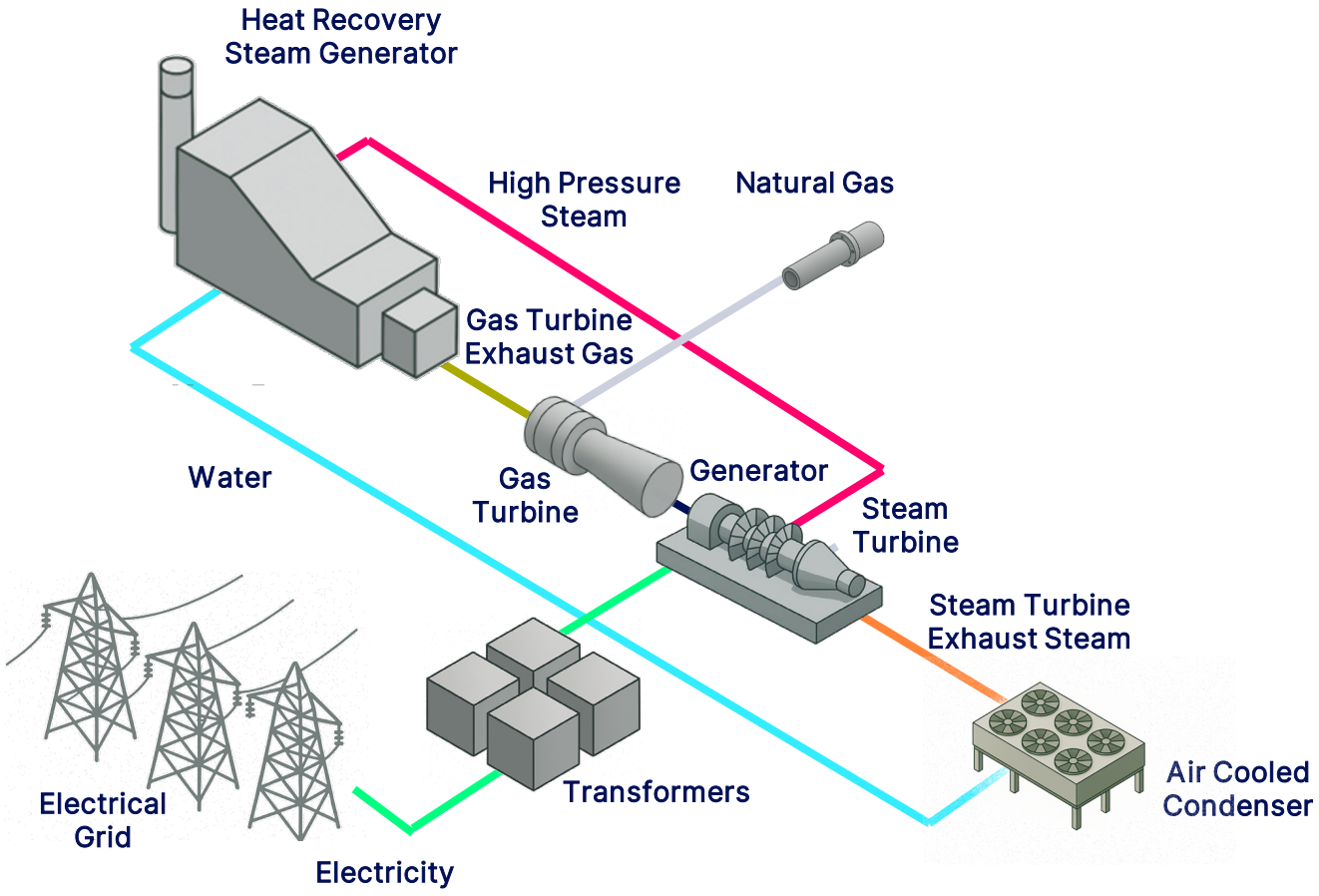
The **Emergency Response Plan** will be prepared in collaboration with first responders, Clearwater County and other impacted stakeholders.

How a Combined-Cycle Power Plant Works

1. Natural gas is used to produce electricity in the gas turbine.

2. The hot exhaust gas from the gas turbine is used to produce steam in the heat recovery steam generator.

3. The steam produced from the heat recovery steam generator is used to produce electricity from the steam turbine.



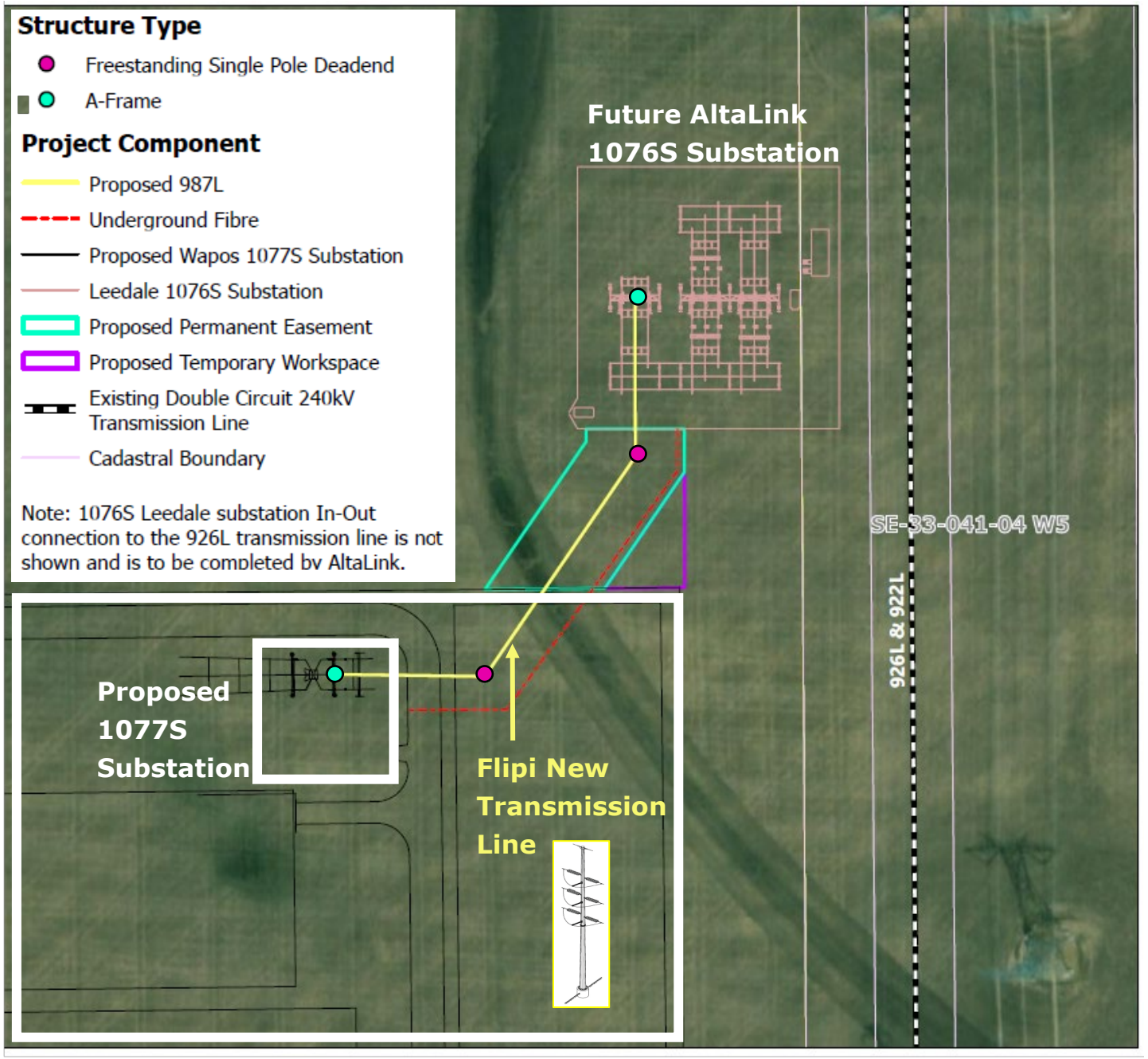
Transmission

Project Details

The proposed Wapos 1077S Substation is located adjacent to the existing AltaLink 240 kV transmission line, requiring only a **short 175 m interconnection**.

Structure Information

- **Structure Type:** Freestanding Steel Single Pole Structures
- **Height:** 19.8 – 39.6 m
- **Span Length:** 40 – 110 m
- Structures will be located within a ~30 m right-of-way



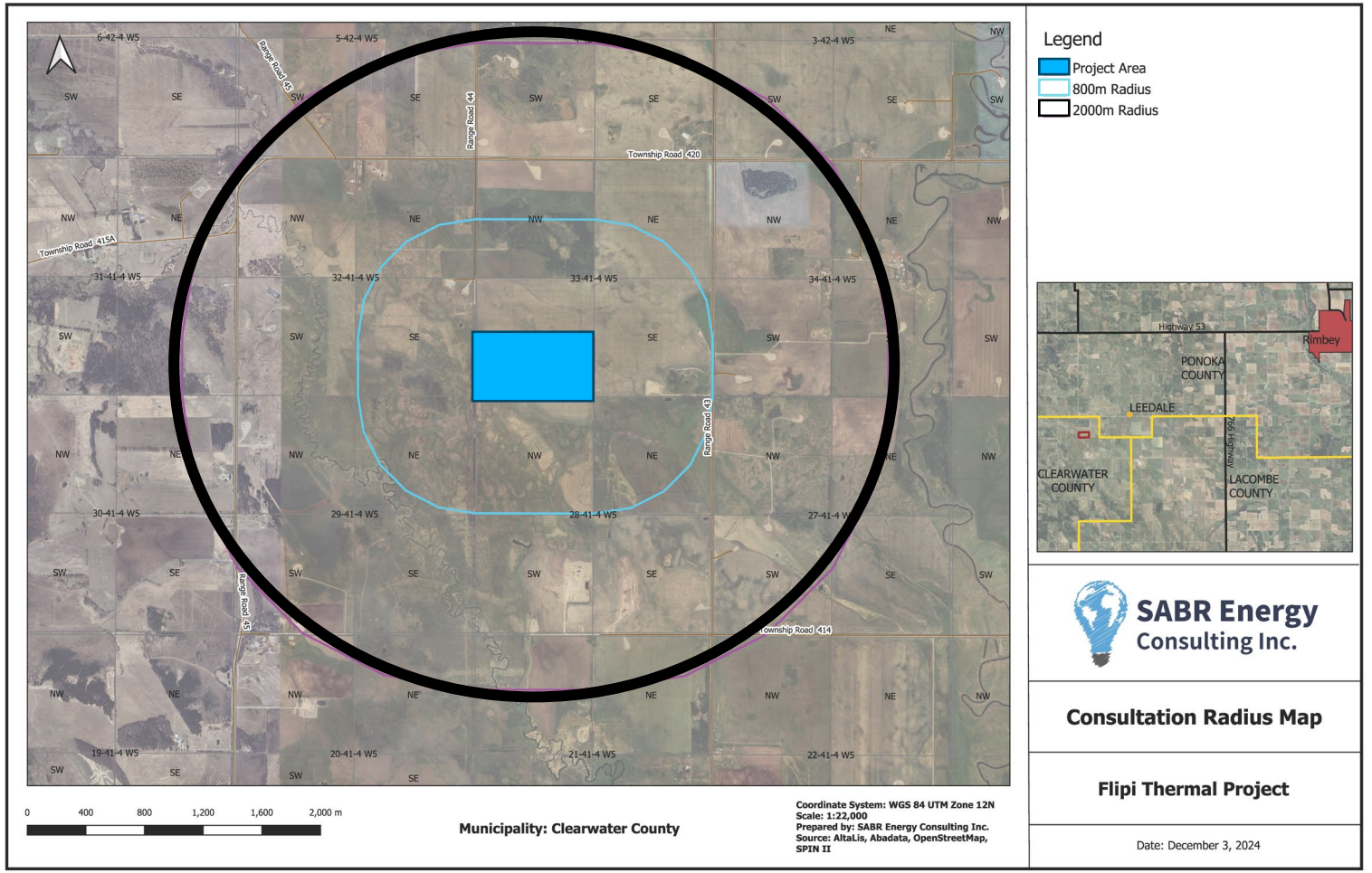
Location Selection Process

The Project will be located on privately owned land approximately 18 km southwest of Rimbey in Clearwater County.

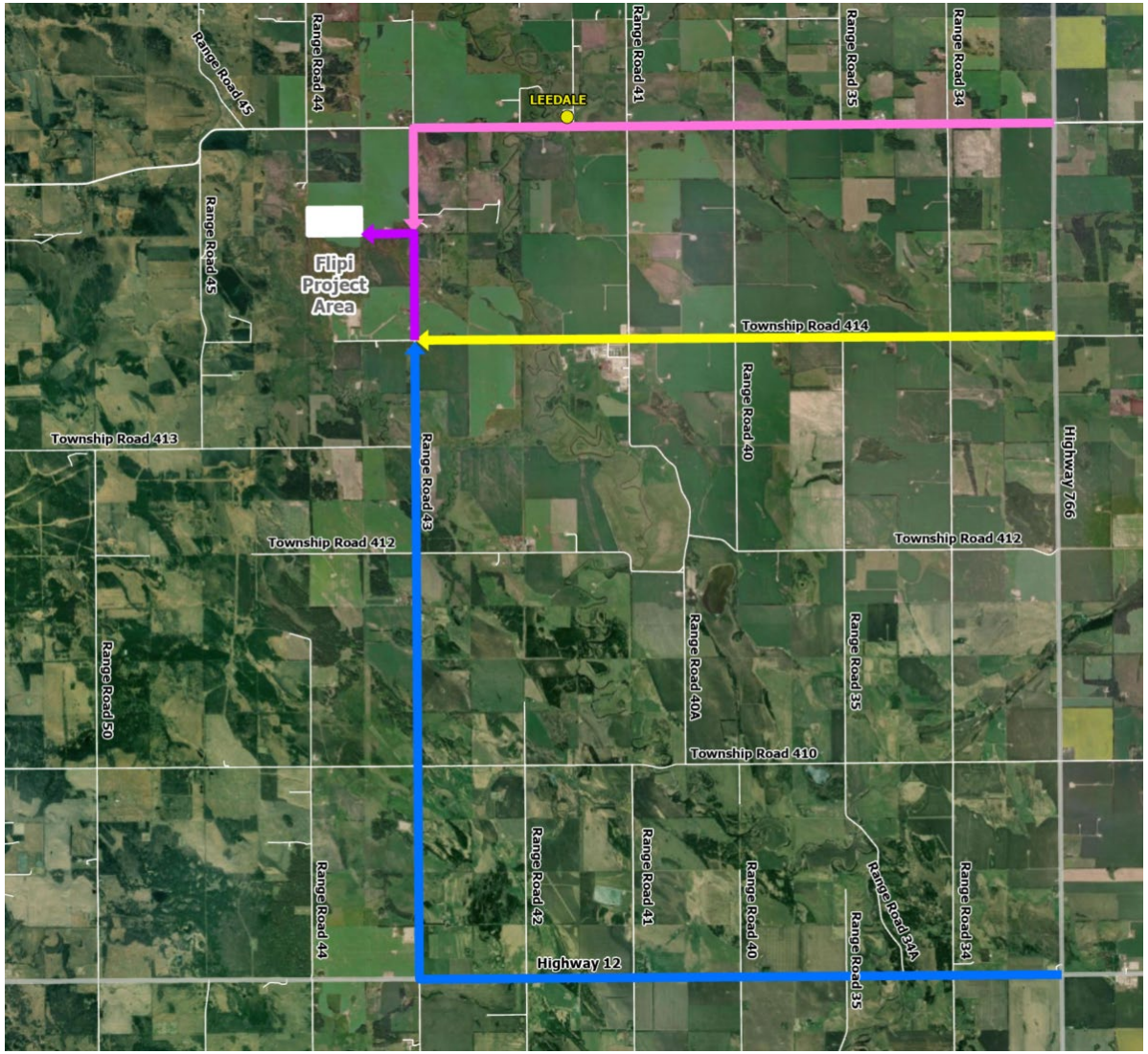
The Project site was chosen carefully, evaluating several key factors, including:

- Electricity demand and available grid capacity
- Proximity to existing transmission lines
- Access to natural gas supply
- Environmental considerations
- Adequate land area and zoning
- A supportive landowner partnership
- Favorable topography
- Low population density
- Favorable permitting pathway
- Road access

These factors together help ensure the site is both technically suitable and environmentally responsible.



Proposed Access Routes



Map of proposed access routes

Route Selection

- **Traffic accommodation & safety plan study was completed**: Comprehensive analysis to prioritize public safety and minimize disruption.
- **Identified four routes to site**: Balanced for efficiency, road capacity, stakeholder feedback, and weather resilience.
- **Additional analysis ongoing**: Incorporating stakeholder feedback, including local resident's and Clearwater County inputs.

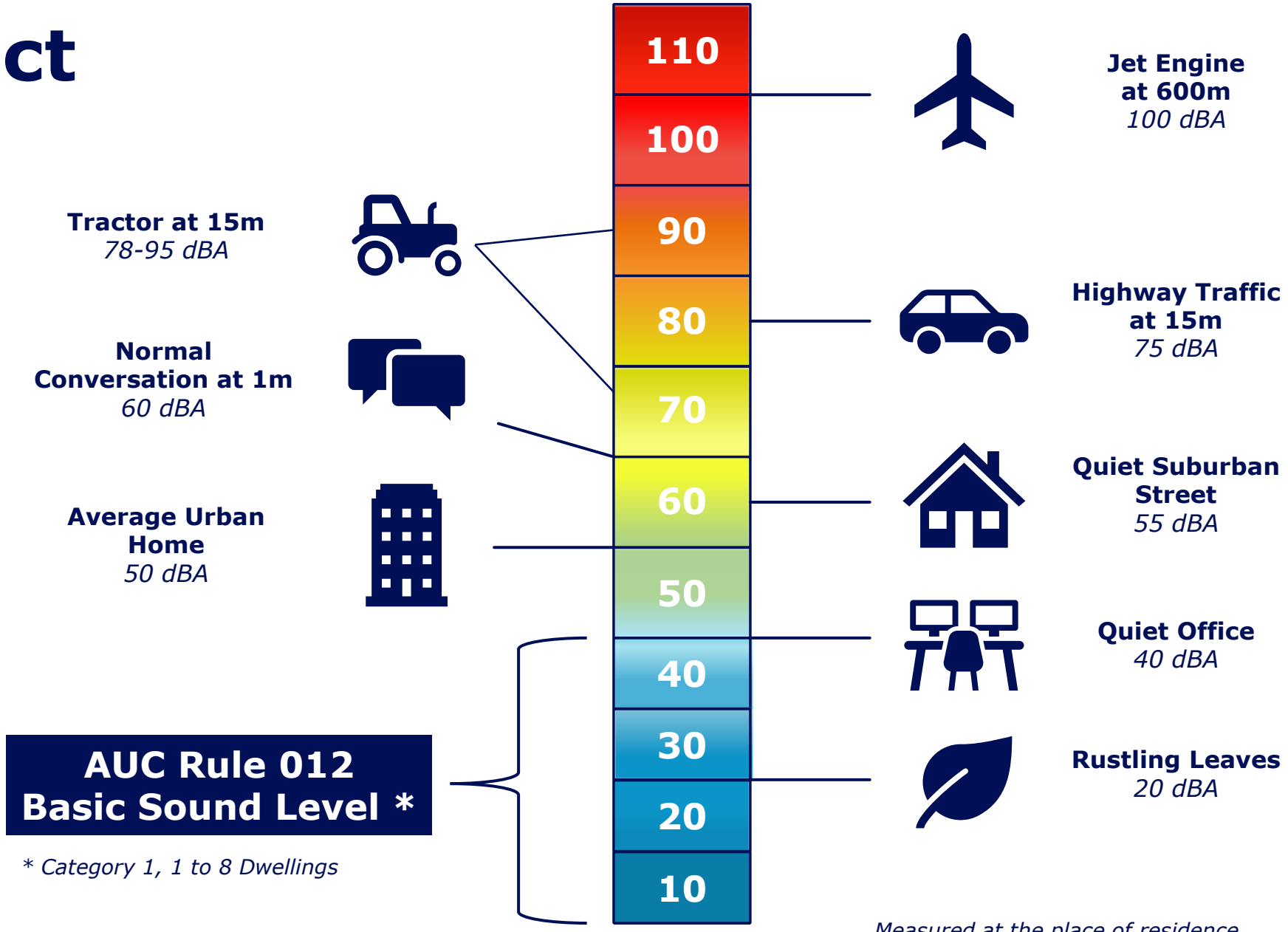
Road Maintenance and Permits

- **Traffic Impact Assessment (TIA):** Consideration for safety and road conditions will be included with TransAlta's application to Clearwater County for a Municipal Development Permit.
- **Road Use Agreement (RUA):**
  - Post-route selection
  - Will comply with all Clearwater County requirements
  - Includes haul limits, dust control, seasonal restrictions and maintenance obligations

Noise Impact

The Flipi project will comply with Alberta Utilities Commission **Rule 012: Noise Control** which sets out thresholds for compliant noise levels.

A pre-construction Noise Impact Assessment (NIA) will be updated once detailed mitigation designs are finalized, as well as a post-construction noise survey at the dwelling receptors.



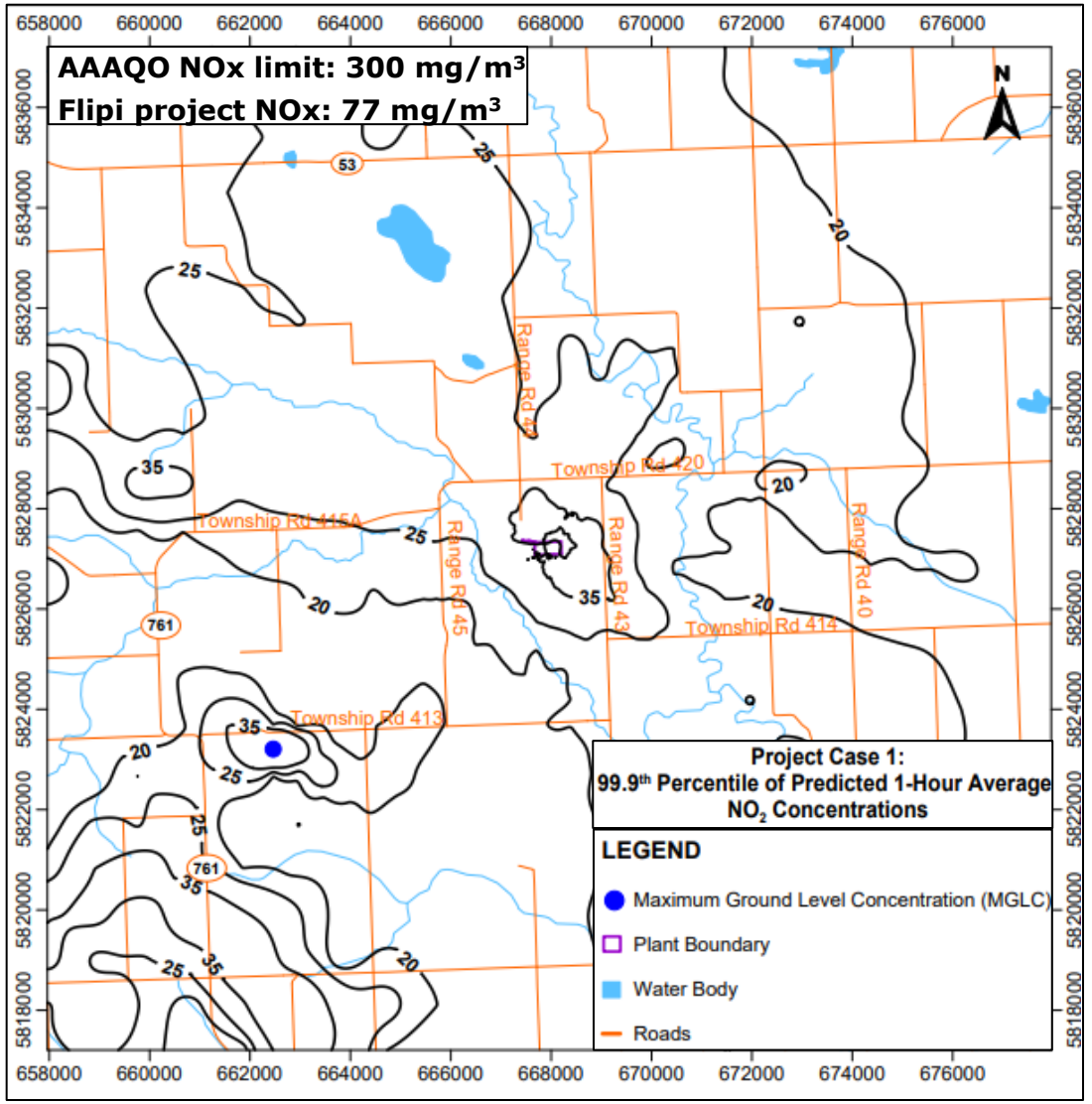
Air Quality and Emissions

Air Quality

- The Project will be fully compliant with **Alberta Ambient Air Quality Objectives (AAQO)** and **Alberta Electricity Generation Air Emission Standards**.
- Emissions are significantly below limits of allowable thresholds, provincial and federal.

Emissions Control

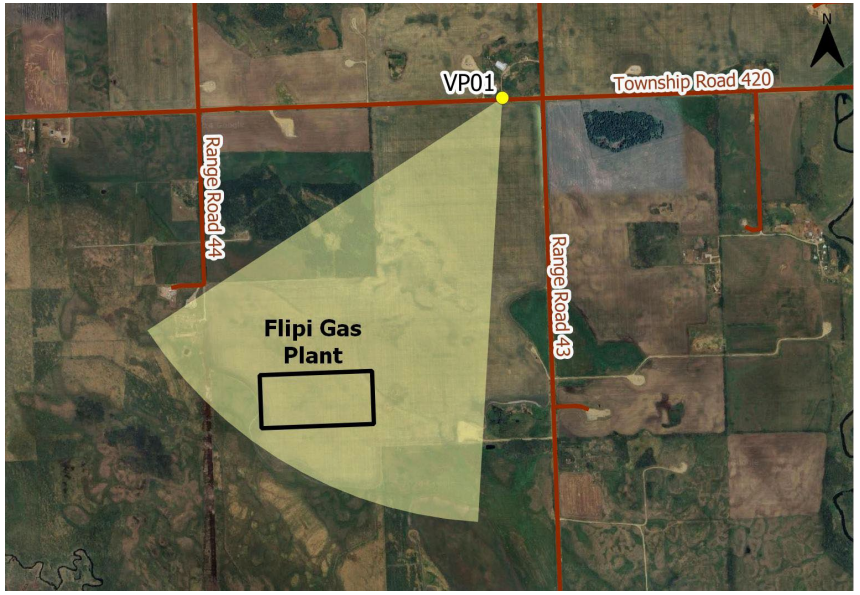
- Exhaust stack on Heat Recovery Steam Generator (HRSG) has a Selective Catalytic Reduction (SCR) system which uses ammonia to convert NOx into nitrogen and water vapor.
- **Continuous Emissions Monitoring Systems** for real-time stack emission tracking and Continuous Ambient Monitoring Systems for continuous ambient air quality monitoring.



Visual Impact

The visual rendering below was captured along Township Road 420 looking southwest towards the Project.

The photo is representative of a person's typical field of view when looking in the direction of the Project.



Viewpoint Location:	E668812 N5828632	Field of View:	53.5° (planar)	Camera:	Nikon D3000	Author:	SF
Viewpoint Elevation:	952m AOD	Principal Distance:	812.5mm	Lens:	35mm	Checked by:	JG
View Direction:	210°	Paper Size:	841 x 297mm	Camera Height:	1.5 AGL	Approved by:	SW
Nearest Gas Plant Component:	1.4km	Printed Image Size:	820 x 260mm	Date and Time:	04/11/2024 11:35	Issued Date:	29/11/2024

Viewpoint 01: Township Road 420

Environmental & Water

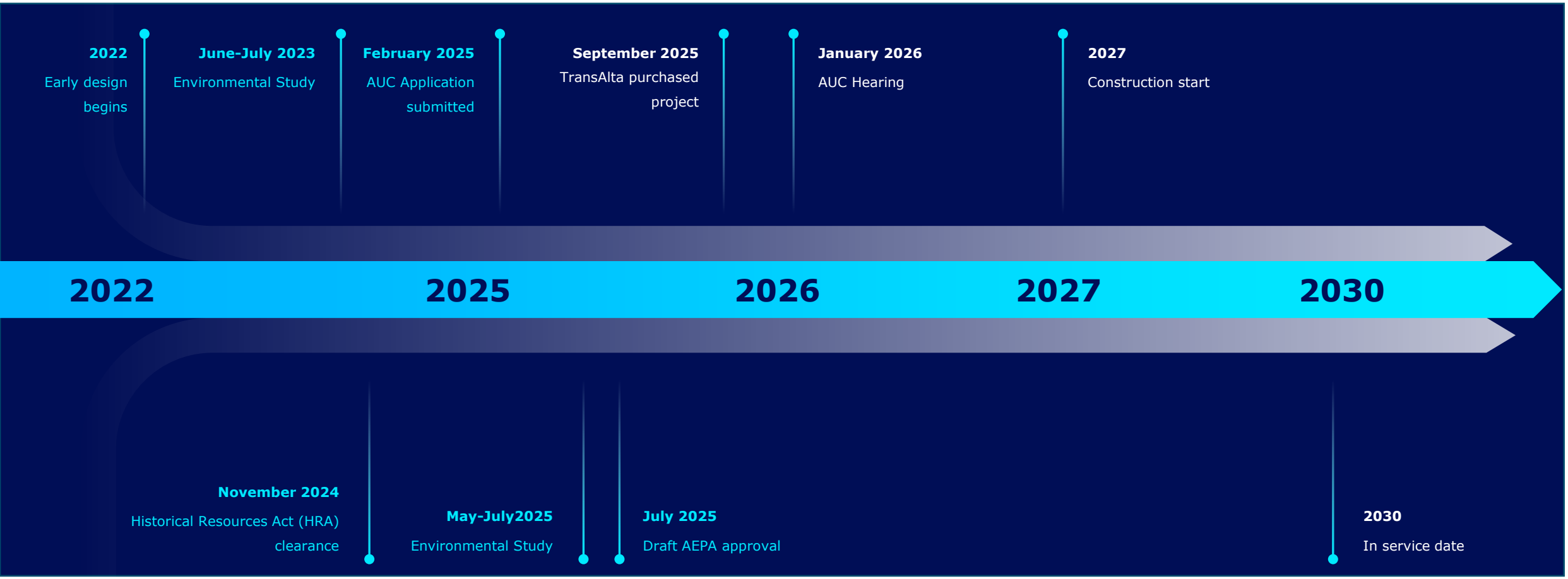
Environmental Impacts

- The Project will be built on privately owned, cultivated lands minimizing new impacts.
- **Environmental assessments have been conducted for the AUC and EPA applications** to confirm that air, water, and soil quality impacts are limited.
- **No significant impacts** to wildlife or sensitive habitats are expected.
- Potential effects on wildlife will be minimized through environmental sweeps.

Water

- The Project is currently evaluating several water sources.
- Hydrological assessments will be completed post AUC approval.
- It is anticipated the Project will require an initial water volume of 6,000 m^3, which will be recycled through the facility.
- TransAlta is committed to **open and transparent engagement** as part of the ***Water Act*** permitting process.

Project Timeline



Project Benefits

Reliable, Efficient Power Generation

- Utilizes combined-cycle technology to provide up to **460 megawatts** of high-efficiency, dependable electricity at lower emissions than simple cycle generation.
- Enhances **grid stability** and **reliability** to support Alberta's growing energy needs.
- Aligns with Alberta's transition to a cleaner, more resilient energy mix.

Economic Growth and Local Investment

- Significant capital investment into the region.
- Creates **hundreds of construction jobs** and **over a dozen long-term operational roles**.
- Increase to municipal tax revenue.

Community and Regional Benefits

- **Strengthens regional infrastructure**.
- Commitment to **local engagement**, **environmental stewardship**, and **safety excellence** throughout project development, construction and operations.

Thank you for attending TransAlta's Flipi Combined Cycle Power Plant Open House

We're listening—contact us at:

Email: stakeholderengagement@transalta.com

Phone: 1-877-547-3365, Ext 1

Need more information?

For more project details and future updates, visit our project website at www.transalta.com/flipi-project/ or scan the QR code below: