Foothills Area Transmission Development South Calgary - Project Overview

The demand for power is increasing as Calgary continues to grow. The Alberta Electric System Operator (AESO) has determined the existing transmission system in south Calgary will become overloaded as the demand for power rises. The reliability of your power supply is reduced as transmission lines become overloaded and the likelihood of power outages increases.

The AESO has identified the need to add a new 138 kV transmission line between ENMAX No. 65 Substation and ENMAX No. 41 Substation via ENMAX No.54 Substation in order to prevent transmission line overloads in the South Calgary area.

To meet this need, ENMAX Power Corporation has identified two viable transmission routes – a preferred and an alternate. The total length of the proposed transmission line to be constructed is approximately 14 – 22 kilometres depending upon the approved route. New equipment will be added at ENMAX Substations No. 65 and No. 41 to accommodate the new transmission line.
Project Update – FATD Macleod Trail

ENMAX Power is proposing a new 138 kV transmission line between a substation located at 88 St. SE and Hwy 22X and 213 Shalom Way SW. Alberta Transportation has advised ENMAX Power, the original proposed routes through Macleod Trail and Stoney Trail SE will conflict with construction of the future expansion of this intersection as part of the Southwest Calgary Ring Road project. ENMAX has redesigned the routes through this intersection to accommodate the road infrastructure.
Proposed Routing

The Preferred transmission line route will now cross Stoney Trail and proceed north along the east side of Macleod Trail, and then cross Macleod Trail to connect to the original route along the west side. The Alternate transmission line route will still continue north along the west side of Macleod Trail, but extend further west around the interchange.
Transmission Structures

The proposed single circuit transmission structures are self-supporting steel monopoles and have a height of 18 – 24 metres (58 – 78 feet). Distance between structures will be between 100 – 125 metres (325 – 410 feet).

The revised preferred route will require nine poles; three fewer than the original preferred route and will be located on the east side of Macleod Trail. The revised alternate route will require nine poles resulting in the addition of one extra pole.
Environment

At ENMAX, we strive to reduce impacts to air, water, land and wildlife during all our operations. We do this by:

• Working with regulatory agencies including the City of Calgary, Alberta Environment and Sustainable Resource Development, Alberta Parks, Fisheries and Oceans Canada, and Environment Canada to ensure all required approval and permits are obtained before starting any project.

• Complying with relevant environmental legislation, regulations, guidelines, policies and operating approvals.

• Developing a site specific Environmental Management Plan for each project to address and mitigate potential impacts to the environment. The plan is reviewed onsite with ENMAX employees and contractors.

• Conducting frequent on-site inspections to ensure workers are adhering to the Environmental Management Plan, and that all mitigation measures are effective.

• Conducting follow-up site visits to ensure impacted areas are remediated.

• Maintaining and continually improving upon our Environmental Management System, which is based on the International Standard ISO 14001 and supports our Corporate Environment Policy.
Regulatory Process - Foothills Area Transmission Development South Calgary

**NEED**
Alberta Electric System Operator (AESO) identifies a need to upgrade transmission system

**DIRECTION**
AESO directs Transmission Facility Owner (TFO), in this instance ENMAX Power, to prepare a Facility Application in accordance with the Electric Utilities Act.

**STUDIES**
TFO conducts necessary studies to ensure transmission routing is the safest, most economical, with the least impact on landowners and the environment

**ENGAGEMENT**
TFO conducts a public engagement program as identified in Alberta Utilities Commission (AUC) Rule 007 to all potentially affected landowners, occupants and residents adjacent to the project.

**APPLICATION**
TFO consolidates information from engagement and studies, and prepares final Facility Application and submits to the AUC.

**AUC REVIEW AND APPROVAL**
AUC reviews application and issues a notice in local newspapers. Interested parties are offered an opportunity to participate in the application process.

Refer to the AUC booklet for information on the regulatory process following submission of the Facilities Application.
Understanding Electric and Magnetic Fields

• Electric and magnetic fields (EMFs) are found everywhere electricity is used from household wiring to power lines. ENMAX understands public concerns with EMF and in order to provide current information to the public and our employees, we continue to monitor the issue through our work with the Canadian Electricity Association’s EMF task group.

• While there are no EMF limits related to long term health effects, some countries and organizations (such as the World Health Organization) have adopted the 2010 ICNIRP guideline of 2000 mG (milligauss) for acute effects.

• Based on our modelling for the TUC route, ENMAX expects that the magnetic field at the nearest property line will be less than 5.5 mG.
Commitment to the Community

ENMAX Power is committed to being a responsible corporate neighbour in the community. This commitment includes providing timely and meaningful engagement with stakeholders about this project.

We have developed a comprehensive public involvement program to provide opportunities for area residents, occupants and landowners to be informed about this proposal and to engage with ENMAX Power in dialogue from the planning phase through to construction.

We hope we’ve answered your questions and have your comments.

Please take a couple of minutes to fill out a comment card. Your input will be included in our consultation report which will be incorporated into our application to the AUC.

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Thank you for attending our open house.