

APPENDIX C PARTICIPANT INVOLVEMENT PROGRAM (PIP)

Calgary Energy Centre Peaking Plant Connection

Needs Identification Document

1.0 Participant Involvement Program (PIP)

From October 2016 to January 2017, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its *Calgary Energy Centre Peaking Plant Connection Needs Identification Document (NID)*. The AESO directed the transmission facility owner (TFO), in this case ENMAX Power Corporation, to assist the AESO in providing notification as part of the AESO's PIP.

The AESO's PIP has been conducted in accordance with the requirements of Section 6.2.1, NID27 and Appendix A2 of the current Alberta Utilities Commission (Commission) Rule 007, effective February 1, 2016.

1.1 Stakeholder Notification

The AESO's PIP was designed to notify the parties notified in the TFO's PIP, including but not limited to:

- i. occupants, landowners or residents;
- ii. local authorities, agencies and government which have responsibilities related to electric transmission line development;
- iii. First Nations and Métis; and
- iv. market participants

(collectively, Stakeholders).

The AESO did not identify any other parties outside of the TFO's PIP that required notification.

The AESO developed a one-page AESO Need Overview document that notified Stakeholders of the following items:

- a description of the need for development;
- a description of the AESO's preferred option to respond to the system access service request;
- identification of the general area where facilities could be installed to implement the AESO's preferred option to respond to the system access service request;
- AESO contact information, including telephone, email and website, for further information; and
- AESO's intention to submit the *Calgary Energy Centre Peaking Plant Connection NID* to the Commission.

A copy of the Need Overview was posted to the AESO website at <https://www.aeso.ca/grid/projects/calgary-energy-centre/> on October 27, 2016 and a notice was published in the AESO Stakeholder Newsletter on October 27, 2016. Copies of the Need Overview posting and the AESO Stakeholder Newsletter notice have been included as Attachments 1 and 2, respectively. The Need Overview was also included with the TFO's project-specific information packages that were distributed to Stakeholders between October 26, 2016 and November 2, 2016.

The notified Stakeholders included the following interested parties.

- Alberta Environment and Parks
- ATCO Group
- City Of Calgary Councillor Jim Stevenson
- Ducks Unlimited Inc.
- MLA Irfan Sabir
- Rockyview County Council
- Shaw Communications
- Telus Communications Company

Attachment 3 includes the TFO project newsletter, which was included in the TFO's project-specific information packages. The TFO's project newsletter included the AESO's contact information, a description of the AESO's role, a reference to the AESO Need Overview, and an invitation to contact the TFO or the AESO for additional information.

The TFO's project newsletter and the AESO Need Overview, were also posted on the TFO's project-specific webpage at <https://www.enmax.com/generation-wires/transmission-and-distribution/current-projects/cec-peaking-plant-connection>

1.2 Filing Notification

Most recently, the AESO notified Stakeholders of its intention to submit the NID to the Commission by posting a Notification of NID Filing to the AESO website at <https://www.aeso.ca/grid/projects/calgary-energy-centre/> on January 4, 2017 and a notice in the AESO Stakeholder Newsletter on January 5, 2017. Copies of the Notification of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 4 and 5, respectively.

1.3 Responding to Questions and Concerns

To ensure that Stakeholders had the opportunity to provide feedback, the AESO provided Stakeholders with the AESO contact information, including a dedicated, toll-free telephone line (1-888-866-2959) and a dedicated email address (stakeholder.relations@aeso.ca). The AESO contact information, along with the AESO's mailing address (2500, 330 5th Ave. SW, Calgary)

and website address (www.aeso.ca), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy, were included in the Need Overview.

As directed by the AESO, the TFO was prepared to direct any Stakeholder questions addressed to the AESO, or questions regarding the AESO Need Overview, to the AESO.

1.4 Concerns and Objections Raised

The TFO has advised that Stakeholders have not identified any concerns or objections with the need for development or the AESO's preferred option to respond to the system access service request. The AESO has not received any indication of concerns or objections from any party about the need for development or the AESO's preferred option to respond to the system access service request.

1.5 List of Attachments

- Attachment 1 – AESO Need Overview
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice
- Attachment 3 – TFO's Project Newsletter – *Calgary Energy Centre Peaking Plant Connection* (October 2016)
- Attachment 4 – AESO Public Notification of NID Filing (AESO Website Posting)
- Attachment 5 – AESO Stakeholder Newsletter NID Filing Notice

Attachment 1 – AESO Need Overview

Calgary Energy Centre Peaking Plant Connection in the Calgary Area



FAST FACT

Alberta's electric transmission system comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

Calgary Energy Centre No. 2 Inc. (CEC2) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its approved Calgary Energy Centre Peaking Plant in the Calgary area. CEC2's request can be met by the following solution:

> PROPOSED SOLUTION

- Add the SS-70 substation with three 138 kV circuit breakers and associated equipment
- Modify the existing SS-162 substation by adding one 138 kV circuit breaker and associated equipment
- Add one 138 kV transmission line to connect the SS-70 substation to the SS-162 substation in a radial configuration

> NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in early 2017
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/grid/projects/ at the time of its application to the AUC

The following organizations have key roles and responsibilities in providing access to the transmission system:

> THE AESO:

- Must plan the transmission system and enable access to it for generators and other qualified customers
- Is regulated by the AUC and must apply to the AUC for approval of its NID

> ENMAX POWER CORPORATION:

- Is the transmission facility owner in the Calgary area
- Is responsible for detailed siting and routing, constructing, operating and maintaining the associated transmission facilities
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications

> WHO IS THE AESO?

The Alberta Electric System Operator (AESO) is a not-for-profit organization with no financial interest or investment of any kind in the power industry. We plan and operate Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans.

> CONTACT US

We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

Alberta Electric System Operator
Jennifer Vollmer

AESO Stakeholder Relations

stakeholder.relations@aeso.ca
1-888-866-2959

2500, 330-5th Avenue SW
Calgary, AB T2P 0L4
Phone: 403-539-2450
Fax: 403-539-2949

www.aeso.ca

[@theaeso](https://twitter.com/theaeso)

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice

Calgary Energy Centre Peaking Plant Connection – Need for Transmission System Development in the Calgary area

Calgary Energy Centre No. 2 Inc. (CEC2) has applied to the AESO for transmission system access to connect its approved Calgary Energy Centre Peaking Plant in the Calgary area. CEC2's request can be met by the following solution:

- Add the SS-70 substation with three 138 kV circuit breakers and associated equipment
- Modify the existing SS-162 substation by adding one 138 kV circuit breaker and associated equipment
- Add one 138 kV transmission line to connect the SS-70 substation to the SS-162 substation in a radial configuration

The AESO has posted a Need Overview for this project on its website. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Grid > Projects > Calgary Energy Centre Peaking Plant Connection.

Attachment 3 – TFO’s Project Newsletter – *Calgary Energy Centre Peaking Plant Connection* (October 2016)

CALGARY ENERGY CENTRE PEAKING PLANT CONNECTION

PROPOSED NEW SUBSTATION AND TRANSMISSION LINE



Rendering showing proposed new No.70 Substation and new transmission line

PROJECT OVERVIEW

On June 30, 2016, ENMAX Energy Corporation received approval from the Alberta Utilities Commission (AUC) to expand their Calgary Energy Centre to include a 197 megawatt peaking plant, Calgary Energy Centre Peaking Plant (CEC 2). Connection of the CEC 2 plant to the transmission grid will require ENMAX Power Corporation (EPC) to construct a new substation and 138 kV transmission line, to EPC's existing No.162 substation. The CEC 2 Connection project would be located at 14417 68 Street NE, Calgary.

PROJECT DETAILS

The proposed connection project will consist of construction of a new No. 70 Substation with the following components:

- Installation of three 138 kV circuit breakers with associated disconnect switches
- Associated protection, controls and station services
- Construction of a new substation control building

Upgrades to the existing No. 162 Substation are required. This includes installation of one 138 kV circuit breaker with associated disconnect switches, installation of associated protection and controls and line terminations.

CEC 2 will be connected to the transmission grid through a 600 metre 138 kV single circuit transmission line between the proposed No. 70 Substation and the existing No.162 Substation.

CALGARY ENERGY CENTRE PEAKING PLANT CONNECTION

PROPOSED NEW SUBSTATION AND TRANSMISSION LINE

The AESO is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with this package, or visit www.aeso.ca. If you have any questions or concerns about the need for this project you may contact the AESO directly. You can also make your questions or concerns known to an ENMAX representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

PROPOSED SCHEDULE

EPC plans to file the Facility Application (FA) with the Alberta Utilities Commission in late January 2017. Subject to approvals being granted, ENMAX expects construction to begin in May 2018 with a proposed in-service date of July 2019.

OCTOBER 2016	Initial Stakeholder Engagement
JANUARY 2017	ENMAX submits FA to the AUC
MAY 2018	Construction begins
JULY 2019	Inservice date
OCTOBER 2016 - JULY 2019	Ongoing Stakeholder Engagement

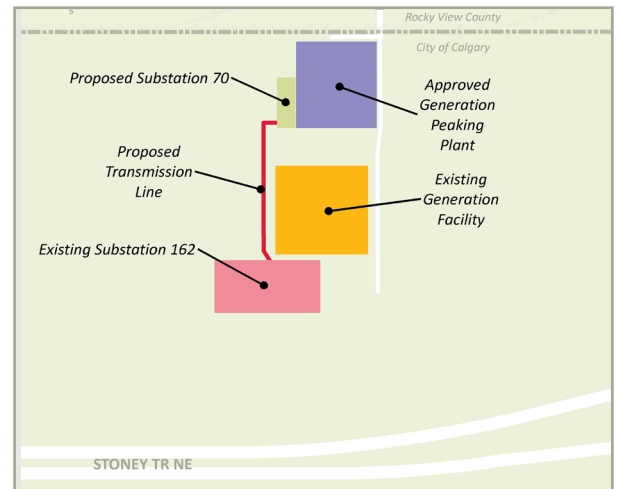
COMMITMENT TO COMMUNITY

ENMAX 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 in dialogue from the planning phase through to construction.

ABOUT ENMAX CORPORATION

ENMAX, through its subsidiaries, makes, moves and sells electricity to residential, small business and large commercial customers and is headquartered in Calgary, Alberta, with offices in Edmonton. ENMAX Power Corporation owns and operates transmission and distribution infrastructure in Calgary and ENMAX Energy Corporation owns diverse electricity generation facilities throughout the province. Since 2007, ENMAX has been named one of Alberta's Top Employers. ENMAX Energy is currently the retailer of choice for both The City of Calgary and The City of Edmonton.



MORE INFORMATION

Your input is very valuable to us. We will work with you to ensure you get answers to your questions and your concerns are understood. For more information about the proposed project, please contact:

ENMAX POWER CORPORATION

Phone: (403) 514-1471

E-mail: stakeholderrelations@enmax.com

Website: enmax.com/transmissionprojects

For more information about the need for this project, please contact:

ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

Phone: (403) 539-2450

E-mail: stakeholder.relations@aeso.ca

Website: aeso.ca

To learn more about the regulatory process, please contact:

ALBERTA UTILITIES COMMISSION (AUC)

Phone: (780) 427-4903

Email: consumer-relations@auc.ab.ca

Website: auc.ab.ca

Attachment 4 – AESO Public Notification of NID Filing (AESO Website Posting)

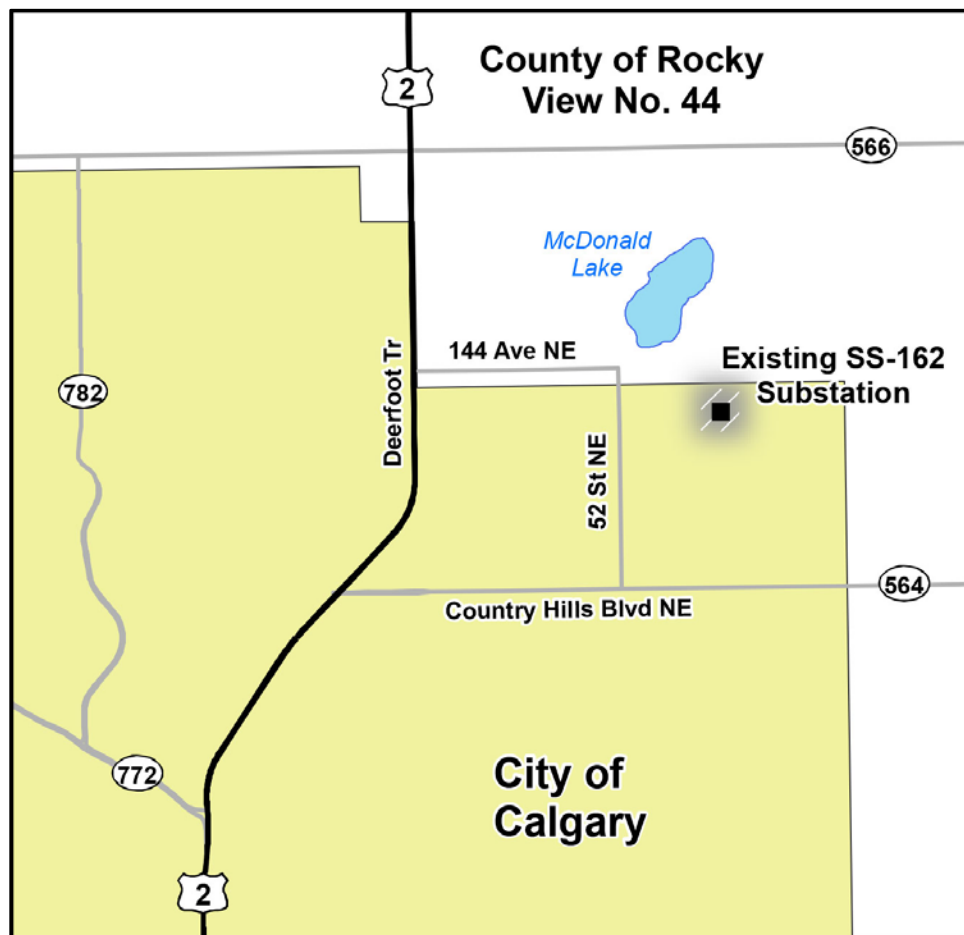
AESO Public Notification of NID Filing

Addressing the Need for the Calgary Energy Centre Peaking Plant Connection in the Calgary Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Calgary Energy Centre Peaking Plant Connection with the Alberta Utilities Commission (AUC) on or after January 20, 2017.

Calgary Energy Centre No. 2 Inc. (CEC2) has applied to the AESO for transmission system access to connect its approved Calgary Energy Centre Peaking Plant in the Calgary area. CEC2's request can be met by the following solution:

- adding the SS-70 substation with three 138 kV circuit breakers and associated equipment
- connecting the SS-70 substation to the Calgary Energy Centre Peaking Plant
- modifying the existing SS-162 substation by adding one 138 kV circuit breaker and associated equipment, and
- adding one 138 kV transmission line to connect the SS-70 substation to the SS-162 substation in a radial configuration.



The black square indicates the approximate location of the existing SS-162 substation, which is at NE-35-25-29W4. The shaded area on the map indicates the approximate location of the proposed transmission developments, including the SS-70 substation and the 138 kV transmission line. In a separate application called a Facility Application, ENMAX Power Corporation (ENMAX), the transmission facility owner (TFO) in the Calgary area, will describe the proposed developments and locations and request AUC approval to construct and operate the specific transmission facilities.

The AESO and ENMAX presented this need to stakeholders, including residents, occupants and landowners, from October 2016 to January 2017. The AESO has considered feedback gathered from stakeholders, and technical and cost considerations, and will apply to the AUC for approval of the need for this transmission development. Once it is filed, the NID will be posted on the AESO website at <https://www.aeso.ca/grid/projects/calgary-energy-centre/>. Please visit our website, www.aeso.ca for more information, or contact the AESO at 1-888-866-2959 or stakeholder.relations@aeso.ca

Attachment 5 – AESO Stakeholder Newsletter NID Filing Notice

Calgary Energy Centre Peaking Plant Connection – Notice of NID Filing

Calgary Energy Centre No. 2 Inc. (CEC2) has applied to the Alberta Electric System Operator (AESO) for transmission system access to connect its approved Calgary Energy Centre Peaking Plant in the Calgary area.

CEC2's request can be met by the following solution:

- adding the SS-70 substation with three 138 kV circuit breakers and associated equipment,
- connecting the SS-70 substation to the Calgary Energy Centre Peaking Plant,
- modifying the existing SS-162 substation by adding one 138 kV circuit breaker and associated equipment, and
- adding one 138 kV transmission line to connect the SS-70 substation to the SS-162 substation in a radial configuration.

The AESO intends to file the Calgary Energy Centre Peaking Plant Connection Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after January 20, 2017, requesting that the Commission approve this NID.

The AESO has posted the public notification for its NID filing on its website. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Grid > Projects > Calgary Energy Centre Peaking Plant Connection to see all the relevant documents, including the NID application once it is filed with the AUC.