

ARTIST'S RENDERING

PROJECT OVERVIEW

ENMAX Power Corporation (ENMAX) is proposing to replace the ENMAX No. 1 Substation (the Project). The ENMAX No. 1 Substation, currently located at 738 9 Ave SW, was built in 1912 to power streetlights and the streetcar rail system in the downtown Calgary area. Over the last 100+ years ENMAX has expanded and upgraded the ENMAX No. 1 Substation to meet load growth requirements, such that it now provides power to approximately 45 per cent of the downtown Calgary area. The proposed Project is needed to ensure the reliability and integrity of ENMAX's transmission system, and to ensure the reliable supply of electricity to the City of Calgary. The Project is also required to mitigate maintenance and operational safety concerns for workers related to the aging equipment in the existing substation.

For more than 100 years, ENMAX has safely and reliably delivered electricity in the City of Calgary.



PROPOSED PROJECT SITE

EXISTING ENMAX NO.1 SUBSTATION

PROJECT DESCRIPTION

The proposed Project consists of the following components:

- a new substation building,
- five 50 MVA 138/13.8 kV transformers located outside the building, and
- high voltage and medium voltage switchgear, and associated auxiliary, protection, and control systems located inside the building.

In addition, six 138 kV transmission lines and twenty-four 13.8 kV distribution lines will be disconnected from the existing substation and reconnected to the new substation.

PROJECT LOCATION

Subject to completion of the purchase of the proposed site, ENMAX is proposing to construct the new ENMAX No. 1 Substation directly west of its current location, on the southwest corner of 9 Ave and 7 St SW.

After the existing lease on the building located at the west end of the Project site expires, ENMAX plans to demolish this building in late 2022.

TRANSMISSION LINE TRENCHING AREAS



STAKEHOLDER NEWSLETTER | OCTOBER 2019

CONSTRUCTION METHODS



MANHOLE PLACEMENT

TRENCH CONSTRUCTION

CABLE PULLING

In addition to constructing the new substation, ENMAX will need to excavate sections of 9 Ave SW, 7 St SW, and 8 St SW to relocate, install, and replace transmission lines, duct banks and manholes. This will require ENMAX to dig trenches in the roadway, pull cables through the duct bank located in the trenches and to place manholes using cranes. These activities are depicted in the images shown above. ENMAX will ensure a safe environment for workers and the general public during construction.

Cable pulling and associated work will be required at several locations within a few blocks of the new substation site. Road and lane closures will be required periodically during construction, but no power outages to customers are anticipated. ENMAX will work with stakeholders and the City of Calgary to minimize the impact to residences, businesses, and commuters in the area.



The proposed Project will remove the four transformers located outside the existing ENMAX No. 1 Substation buildings, and the utility electrical infrastructure located inside the buildings. The existing buildings will remain and it is expected that the site will subsequently be sold.

EXISTING ENMAX NO. 1 SUBSTATION



NOISE IMPACT ASSESSMENT

As part of its application to the Alberta Utilities Commission (AUC) for the proposed Project, ENMAX is required to file a noise impact assessment that meets the requirements of AUC Rule 012: Noise Control (Rule 012). In cases where facilities are in areas with high noise levels due to sounds from other sources (e.g., traffic noise), the AUC permits a facility owner to apply for an adjustment to the applicable noise limits under Rule 012. This adjustment is referred to as a Class A2 Adjustment.

ENMAX anticipates applying for an adjustment to ensure the proposed Project complies with Rule 012. The sound levels at your property won't change as a result of the adjustment application. Rather, the adjustment application will result in a change to the nighttime permissible sound levels specified in Rule 012 in recognition of the existing noise levels in the downtown Calgary area.

PROPOSED SCHEDULE

ENMAX plans to file an application with the AUC in late Q4 2019 or early Q1 2020. Subject to the purchase of the proposed Project site and approvals being granted, ENMAX expects construction to begin in Q2 2021 with a proposed in-service date of Q4 2024. Removal of the electrical components from the existing ENMAX No. 1 Substation is planned to be completed by Q2 2025.

OPEN HOUSE

ENMAX representatives will be available at two open houses to share information, gather your feedback and address any questions or concerns you may have about the proposed Project. We hope to see you there.

DATE:November 5, 2019LOCATION:Sandman Hotel Downtown
888 7 Ave SW, CalgaryAFTERNOON:11:00 am - 3:00 pmEVENING:4:00 - 8:00 pm

DATE:	November 7, 2019
LOCATION:	Sandman Hotel Downtown 888 7 Ave SW, Calgary
AFTERNOON:	11:00 am – 3:00 pm
EVENING:	4:00 – 8:00 pm







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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 proposed Project.

We provide opportunities for area residents, occupants and landowners to be informed about this proposed Project, and to engage with ENMAX from the planning phase through construction.

ABOUT ENMAX CORPORATION

ENMAX Corporation, 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

For more information about the proposed Project, please contact:

ENMAX POWER CORPORATION

Phone: 403-514-1471

E-mail: stakeholderrelations@enmax.com

Website: enmax.com/Sub1

To learn more about the regulatory process, please contact:

ALBERTA UTILITIES COMMISSION

Phone: 403-310-4282

Email: info@auc.ab.ca

Website: auc.ab.ca

