What is it and why is it needed?

The City of Medicine Hat (CoMH) is proposing the construction of a new substation (MHS-11) to accommodate the growth and increasing electrical needs in the southwest area of the City. The proposed substation (the “Project”) will connect to the existing 138 kV transmission line and distribute the electricity to the 13.8 kV distribution system to support the community’s growth. Currently, the CoMH has determined two possible locations for the Project, and both may be presented for regulatory review with only one being constructed.

What makes up a substation?

The 80 m by 85 m site (262 ft x 279 ft) will be graveled and fenced to house the equipment necessary to “step down” the electrical voltage for distribution to the community. The substation will consist of the following components:

- Control building
- Two switchgear buildings
- Two power transformers
- Five circuit breakers
- Eight hand operated disconnect switches

The City of Medicine Hat’s City Operations department is responsible for the management of the electrical distribution, transmission and substation infrastructure providing long term sustainable use to its customers.

The City of Medicine Hat provides safe, reliable, cost effective electric distribution services to residential, commercial, and industrial customers within Medicine Hat, Redcliff and Cypress County.
What will it look like?

Substations tend to appear similar depending on the age and voltage of the facility. The site will appear like the newly constructed MHS-10 substation located in the Box Springs Industrial Area along Box Springs Road as well as previous substations built in Southridge along 13 Ave SE and Crescent Heights along 11 Ave NE. The site will be surrounded by chain link fencing and lighting will illuminate the substation for safety purposes.

How will we determine a preferred site?

Understanding potential impacts from the Project is important in determining a preferred site for the Project. Feedback that will be considered in determining a preferred site includes:

- Public and interested party feedback
- Engineering and technical considerations
- Environmental evaluation
- Economic evaluation

Once a preferred site is determined, CoMH will return to the community and interested parties to understand any potential impacts and work to develop potential measures to minimize the impact to the extent possible.

Where are the proposed sites located?

There are two locations being considered for the Project. Both locations are directly adjacent to the existing MH-20L 138 kV transmission line and are both viable options for construction.
Will there be a new transmission line?

The existing MH-20L 138 kV transmission line will meet the needs of the substation and there is no anticipated transmission line development as part of the Project. There will be a need to modify transmission line structures to enter and exit the station. Further information will be provided once a preferred site is determined.

Who approves the Project?

The Project will be submitted to the Alberta Utilities Commission (AUC) for their review and approval. Information regarding the AUC review process and how you can participate is included in the enclosed brochure and can be found at www.auc.ab.ca.

Timelines

What does the City of Medicine Hat want from you?

Feedback from the community will help our team understand and minimize impacts to people and the environment and will be considered when determining a preferred Project site. Sharing your knowledge of the area and your property will help the City of Medicine Hat make informed decisions as the Project moves forward.

Questions or comments about the project? Contact us.

MHSubstation11@maskwaenv.com | 1-888-285-6181 | www.medicinehat.ca/currentprojects