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April 15, 2025

Dow Fort Saskatchewan Load
Project update

Thank you for your ongoing participation in the Dow Fort Saskatchewan Load project. We began consulting with stakeholders on this proposed project in October 2024 and want to provide you with a project update.

Project details

To connect Dow Chemical Canada's (Dow) proposed substation (Main Site BLK 80 1199S) to the grid, AltaLink is proposing changes to its transmission system. The project is located within the City of Fort Saskatchewan and Sturgeon County. AltaLink's proposed project includes:

- building two new 240 kilovolt (kV) single-circuit transmission lines between Dow's project and AltaLink's existing substation, called Lamoureux 71S
- modifying existing transmission lines to accommodate the construction of the two new lines
- adding or modifying associated structures and equipment as needed
- installing underground fibre optic cable and optical ground wire

Although AltaLink's project is required to connect Dow's project, it is a separate project. For more information about Dow's project, see their contact information at the end of this letter.

Preferred transmission line route

During our first round of consultation, we were considering three potential routes for the new transmission lines. With the input we received from stakeholders, along with the information gathered through ongoing field studies and engineering, we have identified a preferred route:

Preferred route – shown as Proposed Transmission Line on the map included in this package (formerly Potential Transmission Line - Option 1A)

- Primarily located within an existing utility corridor on the east side of the North Saskatchewan River and primarily on private land on the west side of the North Saskatchewan River.
- Is approximately 3.5 kilometres (km) in length.
- When compared to other potential transmission line options, this crossing of the North Saskatchewan River resulted in less technical constraints.
- When compared to other potential transmission line options, this route has reduced impacts to public roadways, utilities and residences.

A slight modification has been made to the centreline of the preferred route to avoid existing utilities and to align with Dow's plans.

Routes that have been removed from further consideration

AltaLink has removed two potential transmission line options from further consideration, as they were assessed to be higher impact options than other routes being proposed. These routes are shown on the map included in this package in grey and white. If your interests in lands are only near a removed route, you will no longer receive information from us about this project. Please contact us if you have any questions or wish to stay informed.

Potential Transmission Line - Option 2A

- When compared to the preferred route, this option has a greater potential impact to public roadways, utilities and residences. The amount of right-of-way (ROW) and area for structures required was constrained by this existing infrastructure and terrain.

Potential Transmission Line - Option 2B

- When compared to the preferred route, this option has a greater potential impact to public roadways, utilities and residences. The amount of ROW and area for structures required was constrained by this existing infrastructure and terrain.
- This option also required two crossings of the North Saskatchewan River.
- This option conflicted with ongoing reclamation efforts within the industrial area on the southeast side of the North Saskatchewan River.

When identifying potential routes, AltaLink takes several factors into consideration in an effort to find routes with low overall environmental, social and economic effects. In addition to stakeholder input, we also consider other impacts, including residential, agricultural, environmental, visual and cost.

Changes to the proposed right-of-way

Initially we advised we would require a ROW width of up to 90 metres (m) for the crossing of the North Saskatchewan River. After additional engineering, we have determined that we will require approximately 92 m at this location. ROW requirements in other areas have not changed.

Changes to the proposed structures

The proposed transmission lines will require a combination of different structures. The proposed structures are the same as what was included in the October 2024 newsletter. However, additional engineering has resulted in the updated height ranges listed below:

- Self-supporting steel pole structures used to anchor the ends or corners of the transmission line: between approximately 18-45 m tall
- Steel monopole structures: between approximately 25-40 m tall
- Steel H-frame structures: between approximately 25-45 m tall

Proposed modifications to the existing 920L and 921L transmission lines remain the same. The proposed structure height for the two new proposed single-circuit steel monopole structures that will replace the existing steel double-circuit lattice structure is now 28-45 m tall.

Changes to proposed fibre optic cable and optical ground wire (OPGW)

In the October 2024 newsletter, we advised that we would be installing OPGW on the new lines and installing underground fibre optic cable into the new Main Site Blk 80 1199S substation. We are now also proposing to install underground fibre optic cable to connect the existing telecommunications network to the new transmission lines.

Changes to the existing D782L Transmission Line

In the October 2024 newsletter, we indicated we would remove the entire D782L transmission line that is no longer in use or connected to the grid. We are now proposing only removing a portion of the D782L transmission line. A select remaining portion of the line will be modified to remove the conductor (wire), but the poles will remain to support the telecommunications network, as indicated above.

Next steps

After our consultation and notification process is complete, we will file an application with the Alberta Utilities Commission (AUC). To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Participating in the AUC's independent review process to consider facility applications*.

We plan to file our application in June 2025 and will notify you once it has been filed. If the project is approved, construction is expected to take place from October 2025 to August 2026.

Contact us

We are available to address any questions or concerns you may have regarding the AltaLink project. Please contact us at stakeholderrelations@altalink.ca or 1-877-267-1453. You can also view more information about the project at http://www.altalink.ca/projects.

For information about Dow's project, please contact Dow at canada@dow.com or 780-992-2894.

Sincerely,

Kris Gladue
Manager, Stakeholder Engagement