

# HVDC MODERNIZATION PROJECT



## PROJECT OVERVIEW

Minnesota Power plans to modernize and upgrade its existing High-Voltage Direct-Current (HVDC) Terminal in Northeastern Minnesota, the eastern endpoint of a 465-mile direct-current transmission line from North Dakota.

The terminal has served Minnesota Power well, but it is now 45 years old and has exceeded its 30-year design life. This project includes modernizing and upgrading the terminal, along with the western terminal in North Dakota, with new technology to meet the need for safe and reliable energy today and into the future.

As we and other energy companies across the nation add more renewable energy sources to our energy mix, the value of this transmission line and its terminals will only grow. This project is critical to ensure a reliable grid that can expand to



deliver renewable energy to where it's needed by our customers. It also continues the safe delivery of electricity across an existing corridor to meet the growing demand for energy in an increasingly electrified economy.

The project will increase the size of the terminal's footprint in Solway Township and require three one-half mile transmission lines next to the terminal.

## PROJECT BENEFITS



Modern energy control and conversion equipment will improve the reliability of the transmission line and prepare for the renewable energy future.



Technology upgrades present a cost-effective opportunity to substantially increase the operating capacity of the terminal to allow the future transfer of additional renewable energy.



The upgrade will create a bi-directional line allowing energy to flow in either direction to where it is needed.

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## PROPOSED SCHEDULE

This project is in the development phase. We expect to apply for permits in early 2023, and there will be multiple opportunities for you to get involved. The permit process with the Minnesota Public Utilities Commission will be open and transparent and provide another avenue for public comments.

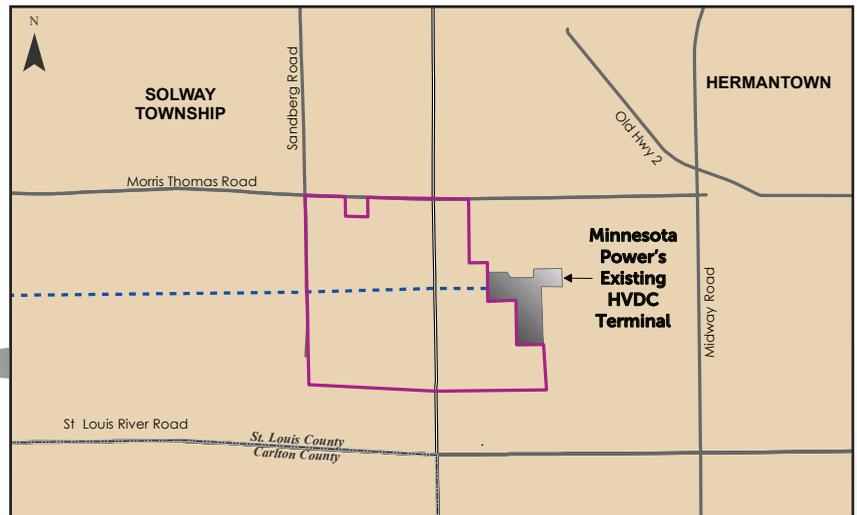
We will work with local jurisdictions and agencies and follow permit requirements throughout project development.



The new voltage source converter station will look similar to this one when completed.



-Photos Courtesy of Siemens



Township Boundary
  Minnesota Power's Project Study Area
  Existing HV/DC Transmission Line

## PROJECT TIMELINE



**CONNECT WITH US**

Questions? We want to hear from you.  
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