Welcome
Purpose of the Open House

• Provide information about the project.

• Gather feedback on the preferred route.

• Gather information to enhance the environmental assessment work being undertaken.

• Gather local knowledge to assist in determining the final placement of the transmission line.

• Discuss possible mitigation measures to minimize potential impacts.

• Answer questions and address concerns.
The Manitoba-Minnesota Transmission Project is needed to:

- Export electric power based on current sales agreements;
- Improve reliability and import capacity in emergency and drought situations;
- Increase Manitoba Hydro access to markets in the United States.
Why does Manitoba export and import power?

• In 2012–13 Manitoba Hydro export sales totaled $353 million with 88 per cent derived from sales in the U.S. market, and 12 per cent from Canadian markets.

• Manitoba Hydro’s utility customers in the United States want long-term price certainty and stability. These utilities see value in purchasing hydroelectricity through long-term fixed contracts that are not linked to volatile natural gas prices and will not be subject to future changes in regulatory requirements associated with air emissions.
Project Description

• The Manitoba-Minnesota Transmission Project includes:
  - construction of a 500-kV AC transmission line in southeastern Manitoba
  - upgrades to associated stations at Dorsey, Riel, and Glenboro

• The transmission line will travel to the preferred border crossing located south of Piney.

• The project will connect at the Minnesota border to the Great Northern Transmission Line, constructed by Minnesota Power.

• Anticipated in-service date is 2020.

• Estimated cost is $350 million.
Station Modifications

Dorsey & Riel Converter stations
- Upgrades (equipment) needed to accommodate the 500-kV AC line;
- Most upgrades will be undertaken within fenced area of both stations.

Glenboro station
- Station expansion needed (east);
- Equipment upgrades;
- Current terminus of an existing import/export line;
- Tower relocation will be necessary;
- Engagement process being undertaken with local residents to explain the expansion and address any concerns.
Preliminary Tower Design

- **Steel lattice towers:**
  - Self-supporting towers in cultivated agricultural areas;
  - Guyed structures will be used in all other terrain.

- **Current design anticipates:**
  - range from 40 to 60 m (130 to 200 ft) in height.
  - average span of 400 to 500 m (1300 to 1650 ft) apart.
  - utilize a right-of-way width of 80 to 100 m (260 to 330 ft).
The Manitoba-Minnesota Transmission Project is subject to environmental regulatory review and approval, including:

- Authorization of an international power line, which is required under the National Energy Board (NEB) Act;
- Environmental assessment by NEB under the Canadian Environmental Assessment Act, 2012;
- Reviewing and licensing by Manitoba Conservation and Water Stewardship under The Environment Act (Manitoba); and
- Under the direction of the Minister, the Clean Environment Commission may hold a public hearing.

For more information, visit www.hydro.mb.ca/mmtp or speak with a Manitoba Hydro representative.
• Construction of the proposed transmission line will require a Class 3 License under *The Environment Act* (Manitoba).

• The Environmental Impact Statement (EIS) for the project will include:
  - Study area characterization;
  - Public engagement program;
  - Assessment of potential environmental and socio-economic effects;
  - Assessment of cumulative effects;
  - Mitigation measures and monitoring plans; and
  - An environmental protection program.

For more information, visit www.hydro.mb.ca/mmtip or speak with a Manitoba Hydro representative.
Engagement Process

**Round 1:**
October to November 2013
- Introduce the Project.
- Present alternative routes and proposed border crossings.
- Answer questions.
- Identify and document concerns.
- Use input to guide route refinement & preferred border crossing selection.

**Round 2:**
April to August 2014
- Present what we heard in Round 1.
- Present refined alternative routes to preferred border crossing.
- Answer questions.
- Identify and document concerns.
- Use input to guide preferred route selection.

**Round 3:**
January to April 2015
- Present what we heard in Round 2.
- Present the preferred route.
- Answer questions.
- Identify and document outstanding concerns.
- Discuss potential effects and possible mitigation measures to minimize effects.
- Use input to assist in determining final route placement.
### Project Timelines

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<td>Round 2 – Preferred border crossing to refined alternative routes</td>
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<td>Round 3 – Preferred route</td>
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Next Steps

• Review input from the public engagement and the environmental assessment processes.

• Determine a Final Preferred Route.

• Complete the Environmental Assessment for the Final Preferred Route and develop the environmental impact statement (EIS).

• Submit EIS to regulators in Summer of 2015.

• Continue to answer questions and address concerns.
**Preferred Route Selection Process**

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<th>Round 1: Three Border crossings and alternative route options</th>
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<td>Feedback on alternative segments provided throughout Round 1</td>
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<tr>
<td>+700,000 routing options</td>
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<td>Route criteria and evaluation</td>
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<td>Top routes to all border crossings compared</td>
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<td>Final comparison of routes to determine strengths and weaknesses</td>
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<td>Border crossing negotiation based on feedback through route comparison</td>
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<th>Round 2: Border crossing and refined alternative routes determined</th>
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<td>Compile feedback from engagement and environmental assessment processes</td>
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<td>Develop additional route segments for consideration</td>
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<td>+500,000 routing options</td>
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<td>Route criteria and evaluation</td>
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<td>Final comparison with top 5 routes</td>
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<td>Modifications to mitigate outstanding concerns</td>
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**Routing Process** is based on the EPRI-GTC methodology. For more information please visit the project website at [www.hydro.mb.ca/mmtp](http://www.hydro.mb.ca/mmtp) or speak with a Manitoba Hydro representative.
The project team wants to hear from you!

- Manitoba Hydro representatives are available to answer your questions.
- Please take a moment to complete a comment sheet so the project team can document your concerns.
- You can also visit a map station to show us where you may have any information or additional considerations regarding the alternative routes.
- Complete a survey online.
The project team wants to hear from you!

- Please contact:
  Licensing & Environmental Assessment Department
  Toll Free: 1-877-343-1631
  In Winnipeg: 204-360-7888
  Email: mmtp@hydro.mb.ca

- Visit the project webpage at www.hydro.mb.ca/mmtp for up-to-date information, and register to receive project updates

- Display boards and project material are also available on the project webpage.
Thank you for attending and providing your feedback!