

FOR OFFICE USE ONLY

MEETING DATE YYYY/MM/DD 2020/07/09	MEETING NAME Regional Council
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Attention: Regional Clerk
Regional Municipality of Peel
10 Peel Centre Drive, Suite A
Brampton, ON L6T 4B9
Phone: 905-791-7800 ext. 4582
E-mail: council@peelregion.ca

DATE SUBMITTED YYYY/MM/DD 2020/07/02
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NAME OF INDIVIDUAL(S) ENDM - Samir Adkar IESO - Ahmed Maria

POSITION(S)/TITLE(S) Director, Electricity Networks and Indigenous Policy Branch and Director, Transmission Planning
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NAME OF ORGANIZATION(S) Ministry of Energy, Northern Development and Mines (ENDM) and the Independent Electricity System operator (IESO)
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E-MAIL cisca.mcinnis@ontario.ca	TELEPHONE NUMBER (647) 262-0759	EXTENSION
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REASON(S) FOR DELEGATION REQUEST (SUBJECT MATTER TO BE DISCUSSED) The Ministry of Energy, Northern Development and Mines (ENDM) and the Independent Electricity System Operator (IESO) are undertaking a joint study to identify a corridor of land to be protected for a future transmission infrastructure in the GTA West region if and when the need arises.
Representatives from ENDM and IESO will provide an overview of the NWGTA Transmission Corridor Identification Study and updates on progress to date.

A formal presentation will accompany my delegation <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Presentation format: <input checked="" type="checkbox"/> PowerPoint File (.ppt) <input type="checkbox"/> Adobe File or Equivalent (.pdf) <input type="checkbox"/> Picture File (.jpg) <input type="checkbox"/> Video File (.avi,.mpg) <input type="checkbox"/> Other <input type="text"/>
Additional printed information/materials will be distributed with my delegation : <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Attached

Note:
Delegates are requested to provide an electronic copy of all background material / presentations to the Clerk's Division at **least ten (10) business days prior** to the meeting date so that it can be included with the agenda package. **In accordance with Procedure By-law 56-2019 delegates appearing before Regional Council or Committee are requested to limit their remarks to 5 minutes and 10 minutes respectively (approximately 5/10 slides).**

Delegates should make every effort to ensure their presentation material is prepared in an [accessible format](#).

Once the above information is received in the Clerk's Division, you will be contacted by Legislative Services staff to confirm your placement on the appropriate agenda.

Notice with Respect to the Collection of Personal Information
(Municipal Freedom of Information and Protection of Privacy Act)

Personal information contained on this form is authorized under Section 5.4 of the Region of Peel Procedure By-law 56-2019, for the purpose of contacting individuals and/or organizations requesting an opportunity to appear as a delegation before Regional Council or a Committee of Council. The Delegation Request Form will be published in its entirety with the public agenda. The Procedure By-law is a requirement of Section 238(2) of the *Municipal Act, 2001*, as amended. Please note that all meetings are open to the public except where permitted to be closed to the public under legislated authority. All Regional Council meetings are audio broadcast via the internet and will be posted and available for viewing subsequent to those meetings. Questions about collection may be directed to the Manager of Legislative Services, 10 Peel Centre Drive, Suite A, 5th floor, Brampton, ON L6T 4B9, (905) 791-7800 ext. 4462.

Please complete and return this form via email to council@peelregion.ca

Greater Toronto Area West Electricity Planning Delegation to Peel Council

Ministry of Energy, Northern Development and Mines
Independent Electricity System Operator (IESO)

July 9, 2020

Objectives

- To provide an update on electricity planning activities for GTA West (Halton/Peel) region*
- To provide an overview of Northwest GTA (NWGTA) Transmission Corridor Identification Study
- Next steps

*Appendix contains detailed information about the regional electricity planning process

Electricity Needs Related to the NWGTA Corridor

- Electricity infrastructure serving northern Brampton, southern Caledon, and Halton Hills must be further developed in order to supply the future.
- Continued urban growth and expansion in Peel and Halton Regions is expected to exceed the capability of the existing electricity system infrastructure to supply the growth.
- The timing of the need for transmission infrastructure and the exact nature of the infrastructure required will depend on the timing and location of development in Halton, Peel and York regions
- Regional electricity planning in the Peel/Halton Region is currently underway by the IESO.
- The need for transmission along this corridor will continue to be studied as part of the current cycle of regional electricity planning, particularly related to needs, timing, and other potential solutions for the partial or complete development within the corridor.

Peel/Halton – Areas with Anticipated Needs

- Station Capacity Needs
- System Capacity Needs
- Restoration/Security Needs
- End-of-life Needs



More details on anticipated needs and the planning approach taken can be found in the Scoping Assessment Outcome Report at:
<http://www.ieso.ca/en/Sector-Participants/Engagement-Initiatives/Engagements/Regional-Planning-GTA-West>

Joint Study

- The IESO and the Ministry of Energy, Northern Development and Mines (ENDM) have initiated a joint study to identify land to be protected for a future transmission corridor that is adjacent to a future transportation corridor to ensure that the longer-term needs can be accommodated if and when they arise.
- The outcome of the study will be a recommendation on land to be preserved for future transmission infrastructure and protected from development for other purposes.
- Any future electricity transmission development in the area would be subject to Environmental Assessment Act requirements and other applicable regulatory approvals, including through the Ontario Energy Board.
- ENDM anticipates developing and considering options to protect the relevant corridor lands after the study is complete.

Guiding Principles

- Proposed principles will be used to help guide our decisions as we narrow the study area to a final corridor.
 - Co-locate with other linear infrastructure
 - Plan for the most cost-effective outcome
 - Minimize impacts to natural heritage, agricultural and hydrological features consistent with provincial policies
 - Minimize impacts on built up areas
 - Provide flexibility for the future

Benefits of Early Corridor Identification

Early identification and protection of infrastructure corridors has many benefits for growing communities:

- It supports well-planned communities by ensuring electricity transmission infrastructure can be built to support growth.
- It minimizes impacts to the environment by preserving environmentally viable routes for infrastructure. In the absence of a preserved corridor, development may push electrical infrastructure into ecologically sensitive areas that could otherwise have been avoided.
- It preserves economically-viable routes. In the absence of a preserved corridor, transmission would cost significantly more to build because of the need to take indirect routes or to be undergrounded through built up areas. A reserved corridor could lower infrastructure development costs, leading to savings for local electricity ratepayers.
- It provides certainty to municipal planners, landowners and developers as they plan for growth.

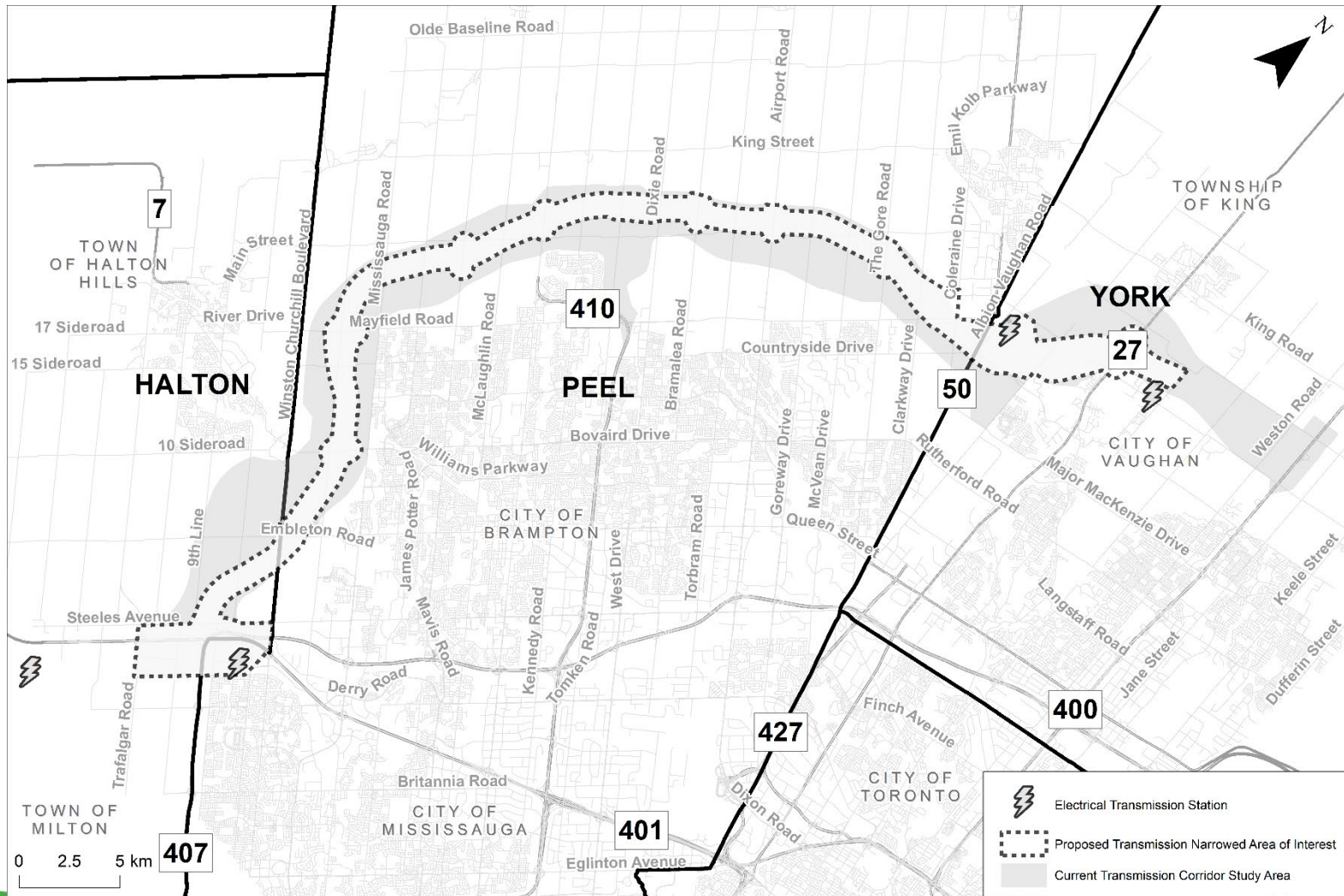
The Study Area

- Provincial policy supports the co-location of linear infrastructure which has the potential to mitigate the impact on surrounding agricultural land and environmentally sensitive areas.
- Planning underway by the Ministry of Transportation (MTO) related to the Greater Toronto Area West Transportation Corridor offers an opportunity to consider co-location.
- The starting point for the transmission study, announced in June 2019, was the Ministry of Transportation's 2015 Focused Analysis Area ("2015 FAA"). The transmission corridor study was expanded to include additional land south of the Highway 407/Highway 401 interchange to enable connection to existing electrical infrastructure.

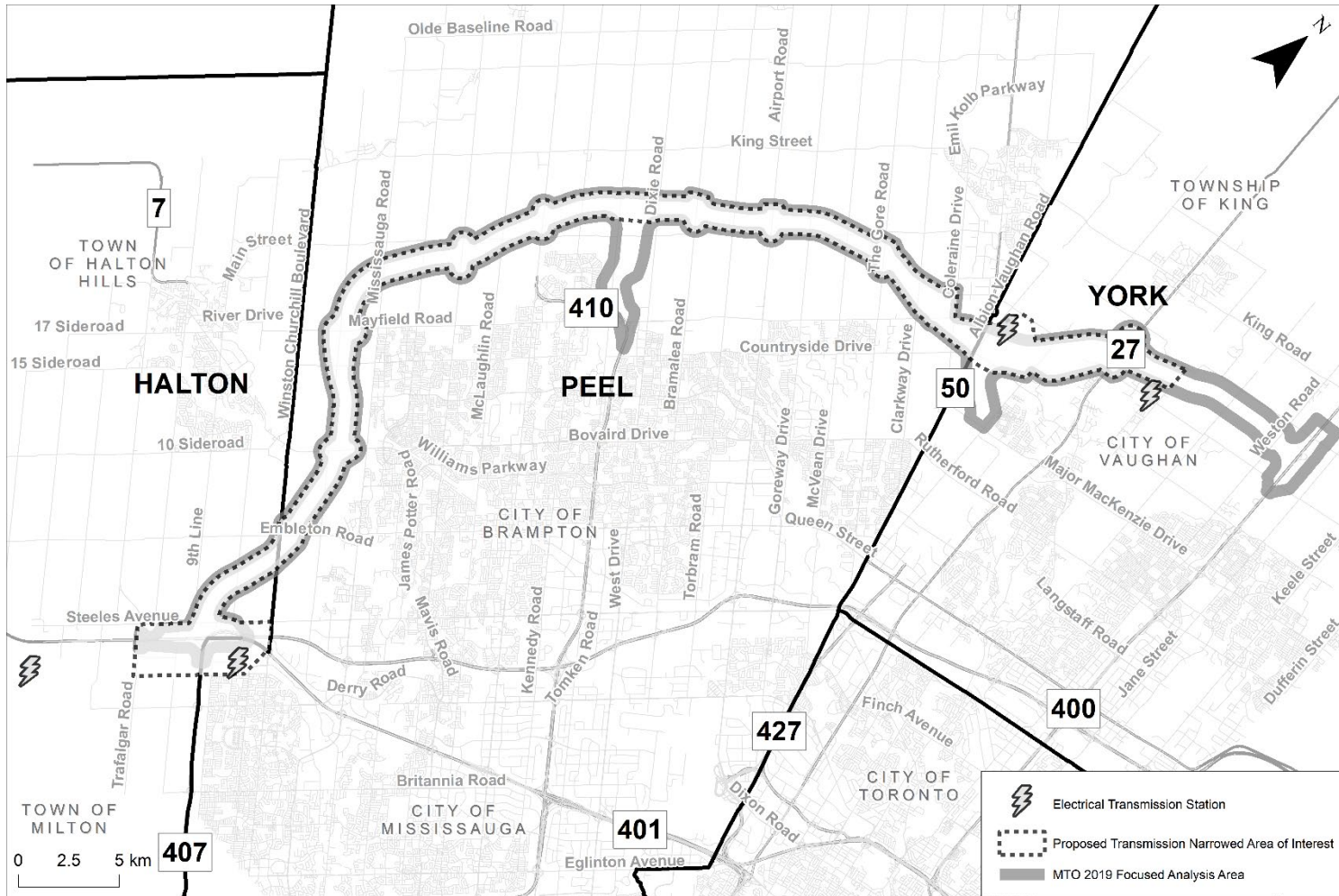
Proposed Narrowed Area of Interest

- A narrowed area of interest has since been proposed. The narrowed area largely corresponds to the corridor identified by MTO in 2019 for the GTA West Highway Environmental Assessment with some differences.
 - Retained two areas important to connect to existing infrastructure
 - Removed areas only relevant to transportation infrastructure

Proposed Narrowed Area of Interest



Proposed Narrowed Area of Interest Compared with MTO's 2019 FAA



Proposed Revision to the Narrowed Area of Interest

- ENDM and IESO recently sought feedback on the proposed transmission study area, as well as input on the guiding principles we will consider in conducting the study.
- We heard from municipalities about the impact of the proposed transmission corridor to the Ninth Line Lands, Meadowvale Business Center Corporate Park and nearby Lisgar GO station in the 401/407 interchange area.
- Based on this feedback, a revised approach that mitigates impacts on existing and planned developments while retaining a reasonable area for future study, including the potential to cross the 401/407 interchange to the east or west, is proposed.
- We also continue to review feedback on other areas including the Brampton-Caledon Airport, Brampton's Heritage Heights community and Caledon's Mayfield West Secondary Plan Area.

Next Steps

- ENDM and IESO are reviewing the comments received on the corridor's narrowed area of interest.
- As we focus on particular areas, engagement will continue.
- Since co-location of infrastructure is one of the objectives of the study, we are aiming to align the transmission study with milestones related to MTO's Environmental Assessment for the transportation corridor.
- We expect to be able to confirm our narrowed area of interest shortly after MTO has confirmed the 2019 FAA, currently expected in Summer 2020.
- Email NWGTATransmissionCorridor@ontario.ca to receive future communications or to ask questions.

THANK YOU

APPENDIX

What is Regional Planning?

- A process for identifying and meeting the unique electricity needs of a region
- Ensures a reliable supply of electricity to Ontario's communities
- Considers a wide range of options including conservation, generation, transmission and distribution and other innovative resources
- Continual process resulting in 20-year outlooks, but assessed every five years at a minimum

Context and Considerations for NW GTA Region

Peel/Halton Integrated Regional Resource Plan

- Lead by the IESO
- Involves forecasting, needs identification, timing and options analysis for a local area (GTA West)

NW GTA Corridor Study

- Joint study with the IESO and Ministry of Energy, Northern Development and Mines
- Identify land to be protected for a future transmission corridor to ensure that the longer-term needs can be accommodated if and when they arise



If/when a need materializes and transmission is recommended

Detailed Transmission Engineering & Design + Environmental Assessment

- Lead by the transmitter selected for the project
- Includes detailed considerations such as tower design, conductor selection, potential underground sections, etc.
- EA process will have significant engagement to determine 'environmental criteria' such as the proximity to an airport and apply mitigation measures

Peel/Halton IRRP High Level Timeline

