Hydro One Networks Inc.
483 Bay Street
7th Floor South Tower
Toronto, Ontario M5G 2P5
HydroOne.com

Jason Savulak
Sr. Manager
Regulatory Compliance
C 647-293-7226
Jason.savulak@HydroOne.com

BY EMAIL AND RESS

October 30, 2026

Mr. Ritchie Murray
Registrar
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, ON M4P 1E4

Dear Mr. Murray,

EB-2011-0043 – 2026 Regional Planning Status Report of Hydro One Networks Inc.

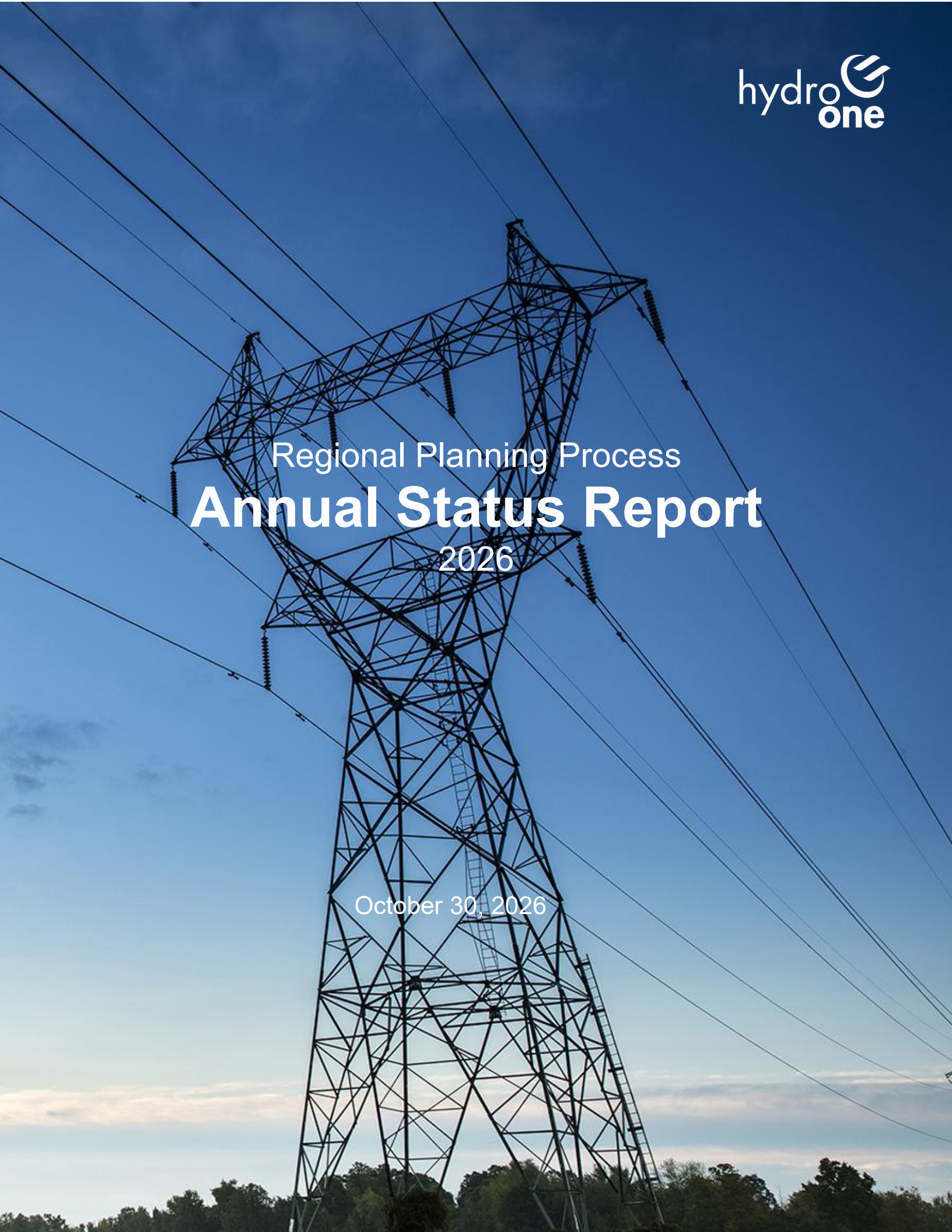
Section 3C.3.3 of the Transmission System Code requires transmitters to submit an annual report to the Ontario Energy Board, on November 1st of each year, that identifies the status of regional planning for all regions.

Please find attached Hydro One Networks Inc.'s 2026 Regional Planning Process Annual Status Report, pursuant to the above noted Code section.

An electronic copy of the Status Report has been submitted using the OEB's Regulatory Electronic Submission System.

Sincerely,

Jason Savulak



Regional Planning Process

Annual Status Report

2026

October 30, 2026

[This page is intentionally left blank.]

EXECUTIVE SUMMARY

Transmitters are required under Section 3C.3.3 of the Transmission System Code[1] (TSC) to submit an annual report to the Ontario Energy Board (OEB or Board) on November 1st of each year which identifies the status of the regional planning for their respective regions. This is the Thirteenth Annual Status Report produced by Hydro One Networks Inc. (Hydro One) and provides an update to the status of regional planning activities, recommended regional plans and accomplishments between November 2025 and October 2026.

Ontario's electricity system is entering a period of significant growth driven by economic development, industrial expansion, electrification, and the Integrated Energy Plan (IEP). Regional planning activities are increasingly focused on identifying and addressing the transmission infrastructure requirements needed to support these evolving demands. In collaboration with the IESO, distributors, municipalities, and customers, regional planning continues to incorporate enhanced load forecasting, municipal growth information, and emerging large-load customer requirements to ensure the electricity system remains reliable, cost-effective, and capable of supporting Ontario's long-term economic growth objectives.

Progress to Date:

The first and second cycles of regional planning for the 21 regions were successfully completed in 2017 and 2023 respectively as per the process developed by the Planning Process Working Group (PPWG)[2]. The third cycle of regional planning is currently underway. During these regional planning cycles, several lessons were learned and Hydro One has implemented improvements to the process.

Hydro One has continued to enhance the regional planning process through strengthened municipal engagement, improved forecasting practices, greater planning responsiveness, and active participation in provincial policy initiatives. Over the past three years, Hydro One has engaged more than 250 municipalities to better understand local growth plans and electricity needs. More municipalities have started completing Hydro One’s municipal input template (aligned with the OEB’s Municipal Information document), helping to improve the quality and consistency of information used in regional demand forecasting. Building on its annual municipal outreach process, Hydro One has expanded engagement through targeted meetings with municipalities, including the St. Lawrence region, to support the incorporation of local growth information into planning assessments, as well as through participation in municipal forums such as ROMA and AMO. These efforts have improved awareness of regional planning processes, strengthened collaboration with municipal stakeholders, and enhanced the incorporation of local growth information into regional planning assessments.

Hydro One has also remained focused on improving the efficiency and responsiveness of the regional planning process. Initiatives include supporting efforts to shorten Regional Infrastructure Planning timelines where feasible, advancing four regional planning studies ahead of schedule in the third cycle of regional planning for regions experiencing accelerated growth or significant connection requests, and proactively collaborating with the IESO to mitigate short-circuit limitations that could otherwise constrain future generation procurement and system development.

In addition, Hydro One is actively contributing to the OEB's Gas-Electric Forum to support coordinated energy planning and the exchange of planning information between electricity and gas sectors. Hydro One also provided their municipal information template to OEB as a foundational document that can be built upon as it is the longest standing template and aligned with the RPPAG's Municipal Information Document. Hydro One will also be participating in OEB's Regional Planning Process Advisory Group (RPPAG) once reconvened.

Finally, Hydro One has also identified increasing transmission fault levels as an emerging planning challenge driven by electrification, generation additions, and transmission system expansion. . This is a risk impacting transmitters and will require a coordinated effort to address it. To support efficient grid development, Hydro One recommends that the OEB work with transmitters to clarify Transmission System Code requirements related to fault level limits and approaches to managing situations where fault levels exceed equipment capabilities.

Since the beginning of the third regional planning cycle, the following are significant milestones that have been accomplished (see Table 1):

- Eighteen (18) NAs are completed so far and the remaining two (2) will be completed in 2026.
- Eight (8) IRRPs were completed and Nine (9) are currently underway.
- RIP reports for the third cycle have been completed for six (6) regions, three (3) are underway, and additional RIP studies will commence following completion of the corresponding IRRPs.

The status of regional planning for each region is summarized in Table 1.

Table 1 - Regional Planning Status Summary

Region	Sub-region	2nd Cycle (2017-2023)				3rd Cycle (2022→)			
		NA (1)	SA (1)	IRRP (1)	RIP (1)	NA (1)(3)	SA (1)(3)	IRRP (1)(3)	RIP (1) (3)
Burlington to Nanticoke	Greater Hamilton	May. 2017	Aug. 2017	Feb. 2019	Oct. 2019	Sep. 2022	Dec. 2022	TBD	TBD
	Brant							Nov. 2024	Jun. 2025
	Bronte								
	Caledonia-Norfolk								
Greater Ottawa	Ottawa	Jun. 2018	Sep. 2018	Mar. 2020	Dec. 2020	Dec. 2022	Mar. 2023	Jul. 2025	Feb. 2026
	Outer Ottawa		*Not Required*	*Not Required*			*Not Required*	*Not Required*	
GTA East		Aug. 2019	*Not Required*	*Not Required*	Feb. 2020	Dec. 2024	Apr. 2025	Oct. 2026	May. 2027
GTA North		Mar. 2018	Aug. 2018	Feb. 2020	Oct. 2020	Jul. 2023	Oct. 2023	Oct. 2025	May. 2026
GTA West		May. 2019	Aug. 2019	Jul. 2021	Feb. 2022	Aug. 2024	Nov. 2024	Nov. 2026	TBD
Kitchener-Waterloo-Cambridge-Guelph		Dec. 2018	May. 2019	May. 2021	Dec. 2021	Apr. 2024	Jul. 2024	Jul. 2026	Feb. 2027

Region	Sub-region	2nd Cycle (2017-2023)				3rd Cycle (2022→)			
		NA (1)	SA (1)	IRRP (1)	RIP (1)	NA (1)(3)	SA (1)(3)	IRRP (1)(3)	RIP (1) (3)
Toronto		Oct. 2017	Feb. 2018	Aug. 2019	Mar. 2020	Dec. 2022	Mar. 2023	Oct. 2025	26-May
Northwest Ontario		Jul. 2020	Jan. 2021	Jan. 2023	Aug. 2023	Sep. 2025	Sep. 2025	Mar. 2027	TBD
Windsor-Essex		Oct. 2017	Mar. 2018	Sep. 2019	Mar. 2020	Feb. 2023	May. 2023	Apr. 2025	Oct. 2025
London Area		May. 2020	*Not Required*	*Not Required*	Aug. 2022	Nov. 2024	Apr. 2025	Oct. 2026	TBD
Peterborough to Kingston		Feb. 2020	May. 2020	Nov. 2021	May. 2022	Dec. 2024	Apr. 2025	April. 2027	TBD
South Georgian Bay/Muskoka	Barrie/Innisfil	Apr. 2020	Nov. 2020	May. 2022	Dec. 2022	Aug. 2025	Nov. 2025	May. 2027	TBD
	Parry Sound/ Muskoka			May. 2022					
Sudbury/Algoma		Jun. 2020	*Not Required*	*Not Required*	Dec. 2020	Oct. 2025	Jan. 2026	Jul. 2027	TBD
Chatham/Lambton/Sarnia		Sep. 2021	Dec. 2021	*Not Required*	Aug. 2022	Nov. 2026	TBD	TBD	TBD
Greater Bruce/Huron		May. 2019	Sep. 2019	Sep. 2021	Apr. 2022	Sep. 2024	*Not Required*	*Not Required*	Apr. 2025
Niagara		May. 2021	Aug. 2021	Dec. 2022	Jul. 2023	Jul. 2026	Oct. 2026	TBD	TBD
North/East of Sudbury(4)		May. 2021	Aug. 2021	Apr. 2023	Nov. 2023	Nov. 2026	TBD	TBD	TBD
Renfrew		May. 2021	Aug. 2021	Dec. 2022	Jul. 2023	Jul. 2026	Sep. 2026	Mar. 2028	TBD
St. Lawrence (2)		Sep. 2021	*Not Required*	*Not Required*	Mar. 2022	Mar. 2026	Apr. 2026	Oct. 2027	TBD
East Lake Superior		Jun. 2019	Oct. 2019	Apr. 2021	Oct. 2021	Oct. 2024	Jan. 2025	Jul. 2026	Feb. 2027

Notes:
(1): NA: Needs Assessment; SA: Scoping Assessment; IRRP: Integrated Regional Resource Plan; RIP: Regional Infrastructure Plan
(2): Note that St. Lawrence 2nd cycle NA was initiated two (2) months over the five (5) year period because of an error in oversight.
(3): All future completion dates are tentative based on Regional Planning Process timeline requirements.
(4):The IESO recommended delaying the NA for the North/East of Sudbury region until after the conclusion of the North of Sudbury Bulk Plan. OEB agreed and granted extension to start the NA in September 2026.

TABLE OF CONTENTS

Executive Summary 2
1. Introduction 6
2. Regional Planning Process Overview 7
    2.1 Regions 12
    2.2 Conservation & Demand Management (CDM) and Distributed Energy Resources (DER) 13
3. Lessons Learned, Process Improvements, and Recommendations 14
    3.1 Recommendations 15
4. Status of Regions 16
    4.1 Burlington to Nanticoke 16
    4.2 Toronto 18
    4.3 Windsor-Essex 21
    4.4 GTA North 23
    4.5 Greater Ottawa 25
    4.6 Kitchener-Waterloo-Cambridge-Guelph (KWCG) 28
    4.7 GTA West 29
    4.8 Greater Bruce/Huron 31
    4.9 East Lake Superior 32
    4.10 GTA East 34
    4.11 London Area 35
    4.12 Peterborough to Kingston 37
    4.13 South Georgian Bay/Muskoka 39
    4.14 Sudbury/Algoma 40
    4.15 Northwest Ontario 41
    4.16 Chatham/Lambton/Sarnia 43
    4.17 Niagara 45
    4.18 North/East of Sudbury 47
    4.19 Renfrew 49
    4.20 St. Lawrence 50
    4.21 North of Moosonee 51
5. Conclusion 52
6. References 54
Appendix A. Conservation, Distributed Generation, and Other Initiatives 55
    A.1 Conservation Achievement 55
    A.2 Distribution Energy Resources 56
    A.3 Other Initiatives 67
Appendix B. Planning Status Letters 81

1. INTRODUCTION

The process for electric power system planning in the Province of Ontario underwent a procedural change in 2013. A regional planning process, which enables transparent, coordinated and cost-effective planning of regional transmission and distribution systems, was mandated by the Ontario Energy Board (OEB or Board) on August 26, 2013, through amendments to both the Transmission System Code[1] (TSC) and the Distribution System Code[5] (DSC). This process is outlined in the Planning Process Working Group's (PPWG) Report to the Board, titled "The Process for Regional Infrastructure Planning in Ontario"[2], revised May 17, 2013. Since then, the OEB undertook multiple reviews of the regional and bulk planning processes. As a result, the 2013 report will be replaced with a new report that will consolidate improvements identified in the previous reviews and provide up-to-date guidance.

As per Section 3C.3.3 of the TSC, transmitters are required to submit an annual report to the Board on November 1st of each year, which identifies the status of the regional planning process and its deliveries in their respective regions. This Thirteenth (2026) Annual Status Report, produced by Hydro One Networks Inc. (Hydro One), provides an update to the accomplishments and progress status of the regional planning activities from November 2025 to October 2026. It also identifies plans and projects already in execution to address new and previously identified needs.

This report is organized into the following sections:

- **Section 2** provides an overview of the regional planning process.
- **Section 3** summarizes key lessons learned, outlines improvements made by Hydro One on the regional planning process, and offers some recommendations based on emerging issues.
- **Section 4** describes regional planning activities, plans, and projects completed and those currently underway for each region Hydro One is lead transmitter for.
- **Section 5** presents a summary of the status of regional planning and highlights key accomplishments achieved over the past year.
- **Section 6** contains the reference documents used in preparing this report.

2. REGIONAL PLANNING PROCESS OVERVIEW

Bulk System Planning, Regional Planning and Distribution Planning are the three levels of planning for the electricity system in Ontario. Bulk system planning typically looks at issues that impact the system on a provincial level and require longer lead time and larger investments. Comparatively, planning at the regional and distribution levels look at issues on a more regional or localized level. Typically, the most essential and effective regional planning horizon is the near- to medium-term (1-10 years), whereas long-term (10-20 years) regional planning mostly provides an outlook with few details about infrastructure investments because the needs and other factors may vary over time. On the other hand, bulk system plans are developed for the long term because of the larger magnitude of investments.

In December 2025, the OEB launched a review of the regional and bulk planning processes (EB-2025-0248) in response to the Ministry of Energy and Mines' (MEM) Integrated Energy Plan (IEP) Directive and established the Regional and Bulk Planning Process Advisory Group (RBPPAG) to identify improvement opportunities. The review concluded in February 2026, with the OEB outlining its proposed actions in a report to the Ministry on March 31, 2026. The recommendations focus on strengthening process governance, improving forecast readiness, streamlining planning timelines, and formalizing the bulk planning process to ensure planning remains responsive, efficient, and aligned with Ontario's economic growth objectives. These recommendations will be implemented through the following actions:

1. Establish a term of reference for Technical Working Groups and update the Regional Planning Process Document
2. Creation of a forecast standard;
3. Take steps to reduce the Regional Infrastructure Planning stage from six to four months, where feasible;
4. Discontinuation of the stand-alone Scoping Assessment;
5. Reinforce monitoring and implementation of IRRP recommendations; and,
6. Document the bulk planning process, maintain a bulk planning dashboard and continue to provide quarterly updates on active bulk planning studies.

To support this initiative, the OEB will reconvene the RPPAG. Hydro One will be participating as a member.

The remaining portion of this section describes the existing regional planning process.

The regional planning process begins with a Needs Assessment (NA) which is led by the transmitter to identify, assess and document which of the needs a) can be addressed directly between the customer and the transmitter along with a recommended plan, and b) that require further regional coordination and identification of Local Distribution Companies (LDCs) to be involved in further regional planning activities for the region.

At the end of the NA, a decision is made by the Technical Working Group (TWG) as to whether further regional coordination is necessary to address some or all the regional needs. If no further regional coordination is required, recommendation to implement the recommended option and any

necessary investments are planned directly by the LDCs (or customers) and the transmitter. The Regional TWG can also recommend to the transmitter and LDCs to undertake a local planning process for further assessment of when needs a) are local in nature, b) require limited investments in wires (transmission or distribution) solutions, and c) do not require upstream transmission investments.

If coordination at the regional or sub-regional levels is required for identified regional needs, then the Independent Electricity System Operator (IESO) initiates the Scoping Assessment (SA) phase. During this phase, the IESO, in collaboration with the transmitter and impacted LDCs, reviews the information collected as part of the NA phase, along with additional information on potential non-wires or resource alternatives, e.g., Conservation and Demand Management (CDM), Distributed Generation (DG), etc., in order to make a decision on the most appropriate regional planning approach including Local Plan (LP), Integrated Regional Resource Plan (IRRP) and/or Regional Infrastructure Plan (RIP).

The primary purpose of the IRRP is to identify and assess both resource and wires options at a higher or macro level, but sufficient to permit a comparison of resource options vs. wire infrastructure to address the needs. Worth noting, the LDCs' CDM targets as well as contracted DG plans provided by IESO and LDCs are reviewed and considered at each step in the regional planning process.

If and when an IRRP identifies that resource and/or wires options may be most appropriate to meet a need, resource/wires planning can be initiated in parallel with the IRRP or in the RIP phase to undertake a more detailed assessment, develop specific resource/wires alternatives, and recommend a preferred wires solution.

As the final stage of the regional planning process, Hydro One, in its role as the lead transmitter, develops a Regional Infrastructure Plan (RIP) in collaboration with the TWG and publishes a comprehensive RIP report for the region. The RIP is a critical planning document because it provides the most detailed wires-focused infrastructure plan, including a thorough assessment of system needs, evaluation of alternatives, and recommended transmission investments required to maintain reliability and support future growth. The RIP report documents the complete discussion of options considered and the rationale for the preferred plan, offering a clear roadmap for major transmission infrastructure development within the region. Given this level of detail and rigor, RIP reports also serve as key supporting evidence in cost-of-service and Leave-to-Construct applications, helping demonstrate the need for and justification of proposed investments.

Figure 2-1 illustrates the various steps of the regional planning process that include NA, SA, LP, IRRP, and RIP.

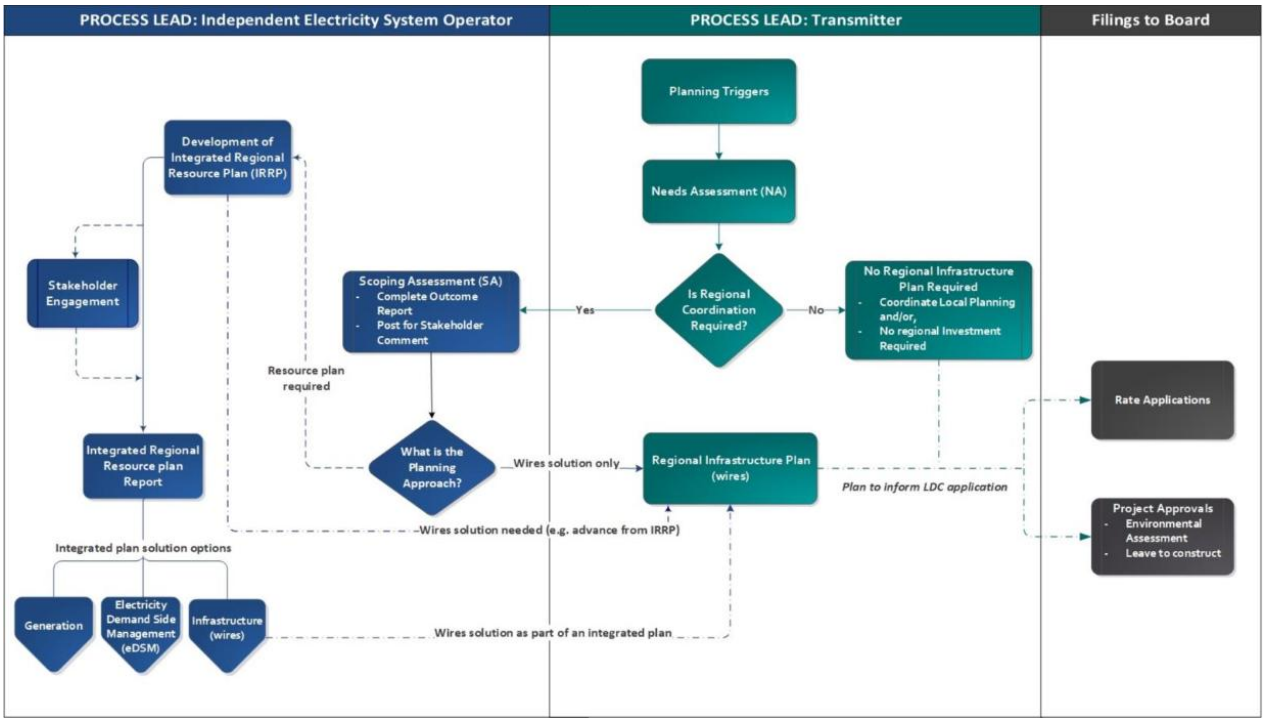


Figure 2-1: Regional Planning Process Flowchart

The figures below show in detail how the pre-Regional Planning steps are integrated into the NA and RIP phases.

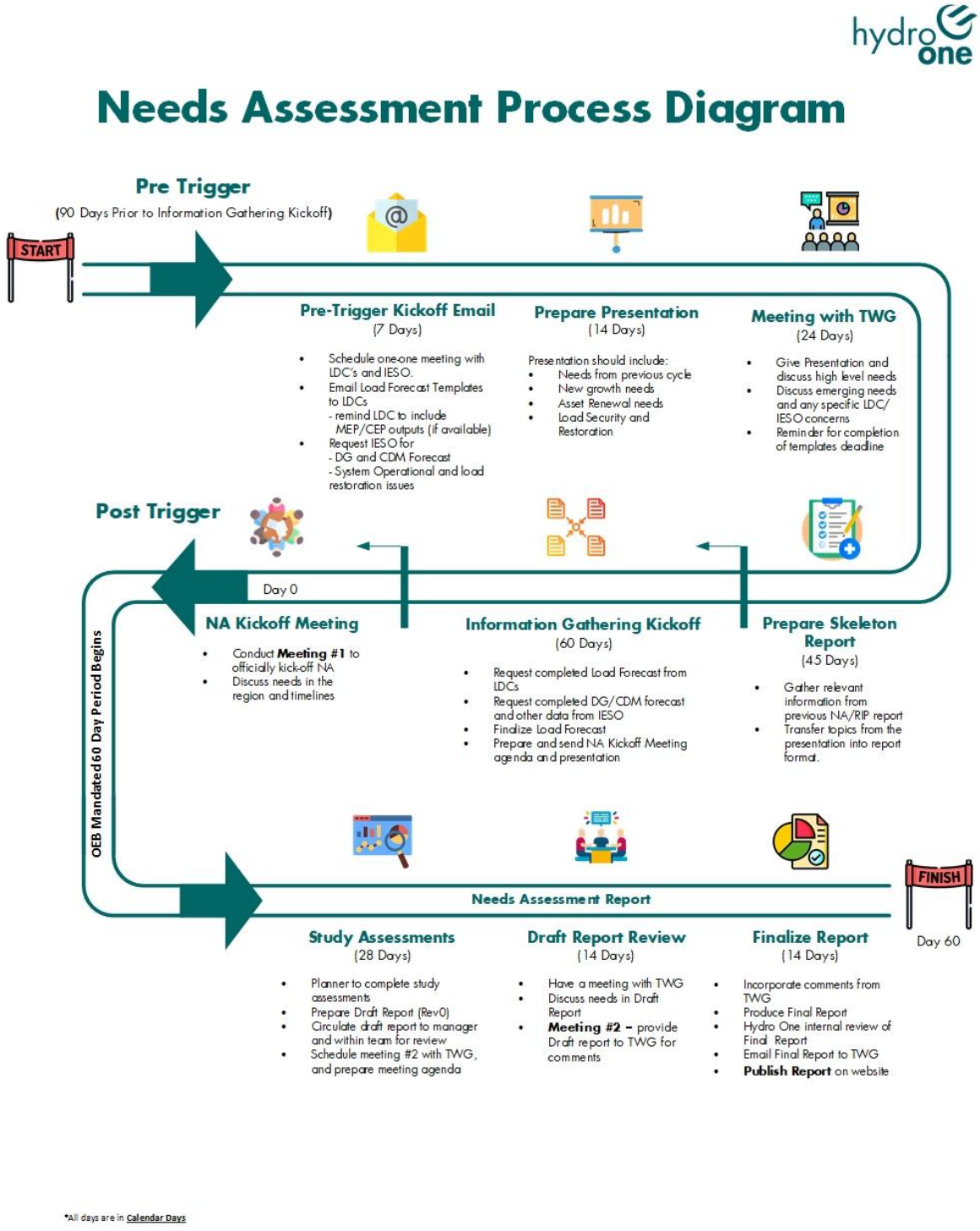


Figure 2-2: Needs Assessment (NA) Phase Diagram

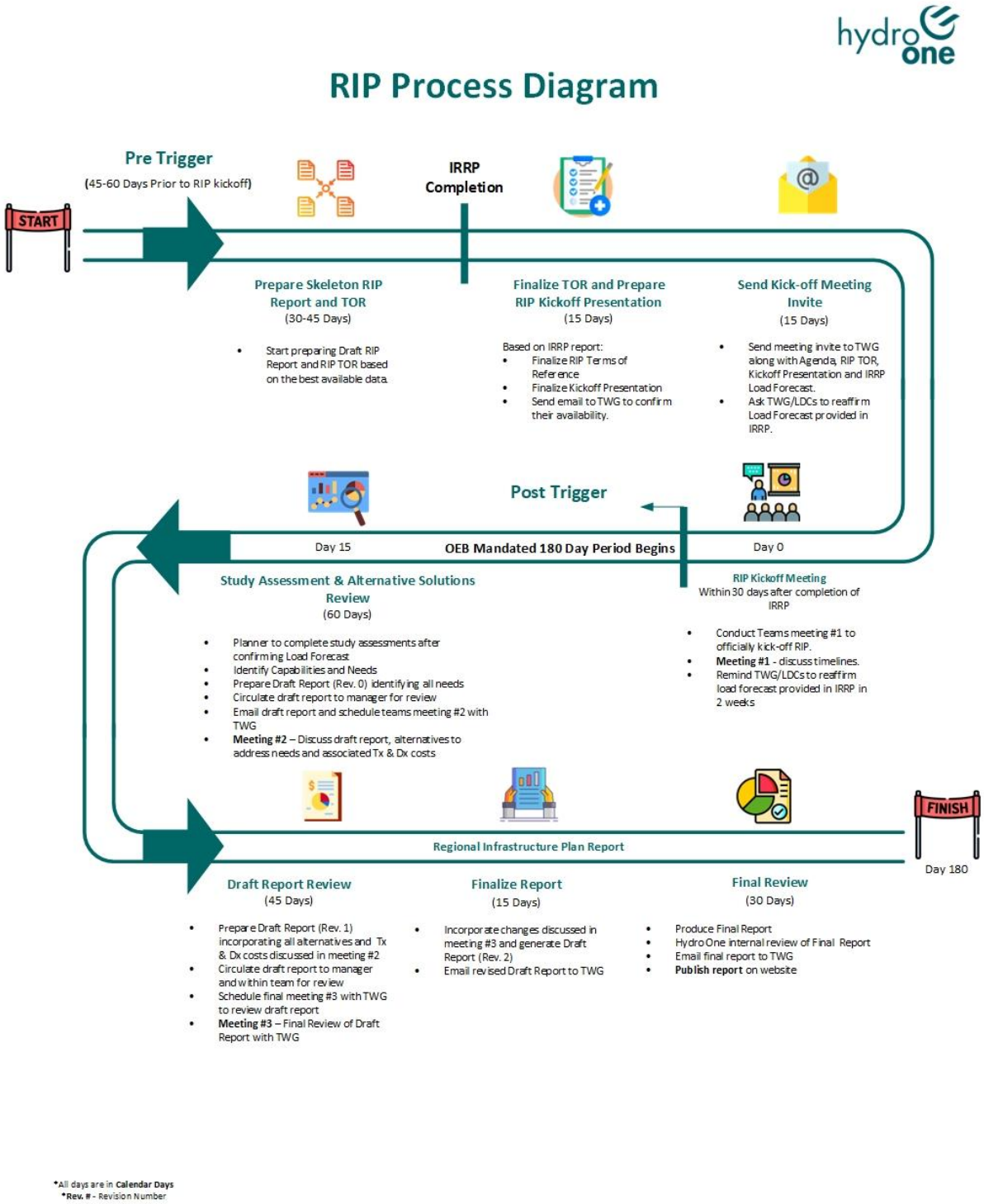


Figure 2-3: Regional Infrastructure Planning (RIP) Phase Diagram

2.1 Regions

The province has been divided into 21 regions to undertake regional planning. In the first cycle, 21 regions were placed into three groups to manage and prioritize regional planning activities. Subsequently, regional planning is initiated every five (5) years or earlier if required to meet emerging needs.

Hydro One is the lead transmitter in all regions, except the **North of Moosonee** Region. For each regional planning activity at the regional or sub-regional level, a Technical Working Group (TWG) is established for each region with representatives from the IESO, Hydro One, and respective LDCs of the area. During the regional planning process, the TWG may further divide a region into two or more sub-regions based on electrical characteristics, contiguity and efficient and effective assessment.

The planning regions are listed in Table 2 and shown pictorially in Figure 2-2.

Table 2 - Regional Planning Regions

Burlington to Nanticoke	Northwest Ontario	Chatham/Lambton/Sarnia
Greater Ottawa	Windsor-Essex	Greater Bruce/Huron
GTA East	East Lake Superior[1]	Niagara
GTA North	London Area	**North of Moosonee**
GTA West	Peterborough to Kingston	North/East of Sudbury
KWCG	South Georgian Bay/Muskoka	Renfrew
Toronto (formerly Metro Toronto)	Sudbury/Algoma	St. Lawrence

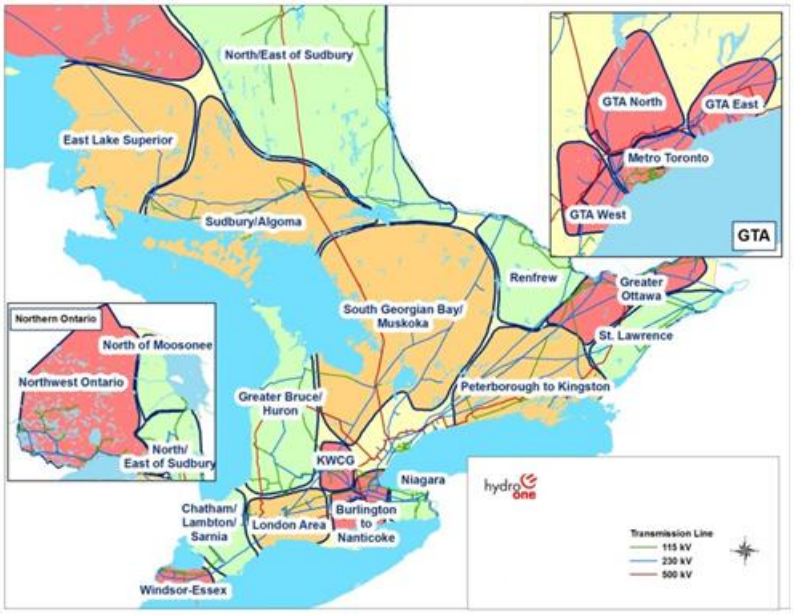


Figure 2-2: Regional Planning Regions

[1] Hydro One Sault Saint Marie, an affiliate of Hydro One Networks, is the lead transmitter for East Lake Superior. This Report includes the status of the regional planning activities in the East Lake Superior Region.

2.2 Conservation & Demand Management (CDM) and Distributed Energy Resources (DER)

CDM is considered at each step of the regional planning process. It is based on input from municipalities, requirements of individual LDCs to comply with conservation targets that are to be achieved through the provision of CDM programs to each customer segment in their service territories[6]. The CDM information is provided by the IESO and prepared jointly by the LDCs for regional planning assessments.

Consistent with Section 21.2.2 (g) of the IESO License and Section 3C.3 of the Transmission System Code[1] (TSC), the IESO provides peak demand offsets resulting from LDCs' CDM programs. It is worth noting that peak demand offsets resulting from LDCs' CDM programs are the total offsets to be achieved by the LDC within its service territory and hence may not be limited to or reflective of offsets within the specific region. The IESO also provides total installed and effective capacity of the IESO contracted DG projects which are either in service or are under development for regions or sub-regions for which an IRRP is completed. The CDM and DG summary provided by the IESO are attached in Appendix A.

Both CDM and DG information is used to develop a net forecast from the gross load forecast provided by the LDCs.

3. LESSONS LEARNED, PROCESS IMPROVEMENTS, AND RECOMMENDATIONS

Over the three regional planning cycles to date, Hydro One has identified several lessons and opportunities for improvement related to the regional planning process and its deliverables. These improvements include recommendations from the Ontario Energy Board's (OEB) Regional Planning Process Advisory Group ("RPPAG"), internal process improvements, and feedback from regional Technical Working Groups (TWG) (consisting of Local Distribution Companies (LDCs), Independent Electricity System Operator (IESO), and Hydro One as lead transmitter). Hydro One has implemented these improvements over the last three regional planning cycles which have led to a more effective and efficient process along with its deliverables. Some key improvements since our 2025 Regional Planning Process Annual Status Report include the following:

- To date, Hydro One has reached out to more than 250 municipalities in its efforts to enhance and facilitate coordination with municipalities to capture their projected electricity needs and support regional planning. As mentioned in our previous annual report to OEB, Hydro One created a new template that can be used by municipal planners to provide input to LDCs to inform the LDC's demand forecast. This template is aligned with OEB RPPAG's Municipal Information Guideline, "Improving the Electricity Planning Process in Ontario: Enhanced Coordination between Municipalities and Entities in the Electricity Sector." This template is intended to streamline the information exchange between LDCs and municipalities as it provides the format and specificity of the information required by municipalities. Since its inception, we have positively observed that there has been an increasing trend in the number of municipalities (small and large) completing it.

- In addition to Hydro One's annual email outreach to municipalities related to regional planning, the company has also actively worked to improve municipal awareness and engagement through other mechanisms. This has included presenting at webinars that cover municipal input opportunities in regional planning, as well as holding targeted discussions with municipalities about community growth and their role in upcoming regional planning cycles. For example, as part of the recent St. Lawrence Needs Assessment, Hydro One held meetings with municipal leads and planners to give them an overview of how to complete Hydro One's municipal input template and discussed how it would be considered in the NA load forecast. This marks another proactive measure by Hydro to strengthen coordination with municipalities and improve load forecasting.

- Further opportunities over the past year to collaborate with municipalities included Hydro One attendance at:
    - Rural Ontario Municipal Association (ROMA) 2026 Conference – held targeted discussions with municipalities and municipal advocacy organizations regarding growth in their communities and upcoming regional planning processes
    - Eastern Ontario Regional Network (EORN) – discussed regional planning in eastern Ontario and opportunities for collaboration
    - AMO's 2026 Annual Conference – Hydro One met with various municipal leaders and LDCs to further our efforts of engagement and to discuss any needs brought forward.

- Hydro One has consistently focused on improving efficiency in the regional planning process and enhancing responsiveness to benefit local priorities and broader system requirements as the grid transformation accelerates. For example:
    - Hydro One will proactively attempt to reduce the timeline for the RIP phase from 6 months to 4 months in situations where this can be achieved without affecting the quality of the assessment, to support the OEB's objective of streamlining the regional planning process.
    - Although the Needs Assessment must be initiated every five years, emerging demands – such as sudden large connection requests – have necessitated earlier assessments in some regions. In the third regional planning cycle, regional planning was accelerated for four regions: Greater Ottawa, London Area, Peterborough to Kingston and St Lawrence. Each underwent a thorough study, resulting in timely recommendations to address the new needs. We anticipate that some regions in the next cycle will also require advancing.
    - Hydro One has also been working proactively with the IESO, and in parallel with Regional Planning, to address remediation for increased short circuit levels in several areas such as GTA East, Peterborough to Kingston, GTA West, Burlington to Nanticoke, Toronto, etc. to enable generation procurement.

- Hydro One is actively participating in OEB's Gas-Electric Forum to support establishing a framework that practically facilitates the ongoing sharing of gas-electric planning information in support of coordinated energy planning. Hydro One has provided their Municipal Information Template to OEB as a foundational document that can be built upon as it is the longest standing template and aligned with the RPPAG's Municipal Information Document. Electricity and gas planning coordination has been occurring for many years and continues to support effective infrastructure planning. More coordinated planning approaches may provide additional value in circumstances where significant changes in gas infrastructure are anticipated, particularly in response to evolving policy objectives.

- Hydro One hosted two industry webinars, attended by approximately 200 participants, one for LDC's and one for Transmission Large Loads and Generators. The webinars provided an overview of Hydro One's ongoing initiatives across Ontario, shared outage coordination principles, and facilitated early information sharing on emerging needs and developments. By improving stakeholder awareness and supporting earlier engagement, these sessions help strengthen coordination needed to support planning. The webinars were well received by transmission customers.

3.1 Recommendations

Ontario's transmission system has evolved significantly over the past years through generation additions, changes in system configuration, and increasing electrification. As a result, fault levels continue to increase on the Ontario system and, in some areas it is approaching or exceeding the ratings of existing and/or available transmission equipment. This issue will compound itself in the near and medium term with proposed and/or planned transmission expansion and resource development in the province. It is recommended that OEB work with transmitters to clarify aspects of the Transmission System Code related to fault level limits, transmitter accountability for

equipment ratings, and the approach to managing situations where fault levels exceed equipment capabilities.

4. STATUS OF REGIONS

Regional Infrastructure Plans (RIP) have been completed for all regions for the first and second cycles of the Regional Planning Process where Hydro One is the lead transmitter. As part of the second cycle, Independent Electricity System Operator (IESO) has completed Scoping Assessments (SA) for all the required sixteen (16) regions and Integrated Regional Resource Planning (IRRP) reports for fifteen (15) regions. Hydro One has also initiated the third regional planning cycle with NAs for eighteen (18) regions completed. Subsequently IESO completed seventeen (17) SAs and seven (7) IRRPs completed with ten (10) IRRPs currently underway. These reports are available on Hydro One's Regional Planning website.

As part of the third regional planning cycle, there have been four regions so far where the NA has been advanced due to emerging needs in their respective areas – Greater Ottawa (completed in Dec. 2022), London Area (completed in Nov. 2024), Peterborough to Kingston (completed in Dec. 2024), and St. Lawrence (completed in Mar. 2026). Hydro One is keeping abreast of the needs in the province on a regional basis and will advance regional planning for any of the other regions as necessary based on emerging needs in the area.

4.1 Burlington to Nanticoke

Burlington to Nanticoke Region comprises the municipalities of Burlington, Hamilton, Oakville, Brantford, and the Counties of Brant, Haldimand, and Norfolk.

Planning Cycle	Status	Next Steps
Third	RIP Completed June 2025	IRRP Addendum*, Fourth Cycle NA beginning in September 2027

*The IESO will issue an IRRP addendum for the Greater Hamilton sub-region. The RIP, incorporating the final recommendations based on TWG's assessment of the additional alternatives, will be re-released accordingly.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Kenilworth TS Power Factor correction – Additional capacitor bank was connected at Kenilworth TS (completed in 2026)
- 115 kV B7/B8 - Refurbished line section from Burlington TS to Nelson Jct (completed in 2025).
- Gage TS - Replacement of existing T3/T4, T5/T6 DESNs with new T10/T11 DESN and component replacement (completed in 2024)

- Kenilworth TS - T3 and component replacement with replacement of existing T1/T4, T2/T3 DESNs with T2/T3 DESN (completed in 2023)
- Elgin TS - Replacement of existing T1/T2, T3/T4 DESNs with new T5/T6 DESN and component replacement (completed in 2022)
- Newton TS - T1/T2 replacement (completed in 2020)
- 115 kV B3/B4 - Refurbishment of line section from Horning Mountain Jct. to Glanford Jct. (completed in 2020)
- Kenilworth TS Power Factor correction – Additional capacitor bank was connected at Kenilworth TS (completed in 2026)

Needs and Plans Underway:

1. Line Capacity Needs

The following line supply capacity need was identified and were reviewed by the Technical Working Group (TWG) in the current RP cycle:

- The overloading of 115 kV B2 intertie line between Brant area and Woodstock area is included in Brant area supply need and the supply capacity of C9/C12 line is included in the Norfolk area need.

2. Station Capacity Needs

The following station capacity needs were identified and were reviewed by the TWG in the current RP cycle:

- Nebo TS (T1/T2) 27.6kV DESN
- Mohawk TS
- Newton TS

The following station capacity plans were recommended by the TWG and are underway:

- Dundas TS Load transfers/balancing – The planned in-service date to build feeders required for load transfers from Dundas TS to Dundas TS #2 is 2026.
- Norfolk TS to Jarvis TS load transfers - The planned in-service date to build feeders required for load transfers from Norfolk TS to Jarvis TS is 2026.
- Norfolk TS addition reactive support – The planned in-service date for connecting a new additional capacitor bank at Norfolk TS is 2026.
- Nebo TS (T3/T4) – The planned in-service date for replacement of these transformers with upgraded units is 2032.

3. Area Capacity Needs

The following Area capacity needs were identified and were reviewed by the TWG in the current RP cycle:

- Brant Area* - Construction of two (2) new 230kV/ 27.6 kV 200 MVA transformation facilities near the existing Brant TS. The planned in-service date is in 2029.
- Norfolk Area - Load transfers, additional reactive support, and large Battery Storage.
- Dundas Area* - Construction of two (2) new 230kV/ 27.6 kV 200 MVA transformation facilities near existing Dundas TS. The planned in-service date is in 2035.

- Bronte Area - To be assessed as part of the upcoming Hamilton IRRP.

* New options identified during RIP phase for these needs and will be assessed as an addendum.

4. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission asset for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.

- Beach TS - Autotransformers T1, T7 and T8 will be replaced with new 150/200/250 MVA units. The planned in-service date is 2028.
- Lake TS – T2 (50/67/83.3) MVA transformer will be replaced with a unit of same size. The planned in-service date is 2028.
- Lake TS – T3 and T4 (75 MVA) transformers will be replaced with new 100MVA units. The planned in-service date is 2034.
- Nebo TS – T3 and T4 (75 MVA) transformers will be replaced with new 100 MVA units. The planned in-service date is 2032.
- Beach TS – Transformers T5 and T6 (75 MVA) will be replaced with new 100 MVA units. The planned in-service date is 2033.
- Caledonia TS – T2 (83 MVA) transformer will be replaced with a unit of same size. The planned in-service date is 2032.
- Birmingham TS - T1 (75 MVA) transformer will be replaced with a unit of same size and three 13.8 kV MV Metal clad switchgears. The planned in-service date is 2034.
- Gage TS – non-standard T8 and T9 (120 MVA) transformers will be replaced with standard 100 MVA units. The planned in-service date is 2033.
- Jarvis TS – T3 and T4 (83 MVA) transformers will be replaced with a unit of same size. The planned in-service date is 2035.

4.2 Toronto

The Toronto Region comprises the area within the municipal boundary of the City of Toronto.

Planning Cycle	Status	Next Steps
Third	RIP Completed May 2026	Fourth Cycle NA beginning in Dec 2027

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- John TS – T5/T6 replacement (completed in 2025)
- Copeland MTS - Phase 2 second DESN (T2/T4) and backup transformer T5 (completed in 2024)
- Scarboro TS – T23 replacement (completed in 2024)
- Fairbank TS – T1/T2/T3/T4 replacement (completed in 2024)
- Bridgman TS – T11/T12/T13/T14 replacement (completed in 2024)
- Horner TS - Second DESN (completed in 2022)
- Strachan TS - T12 and component replacement (completed in 2022)
- Runnymede TS – Replacement of existing T3/T4 DESN with new T5/T6 DESN and component replacement (completed in 2022)
- Strachan TS – T12 replacement (completed in 2021)
- Sheppard TS – Replacement of existing T3/T4 DESN with new T5/T6 DESN and component replacement (completed in 2021)
- John TS – T1/T2/T4 replacement (completed in 2019-2021)

Needs and Plans Underway:

1. **Line Capacity Needs**

   The following line supply capacity needs were identified and were reviewed by the TWG in the RP cycle:

   - Manby TS x Riverside Jct. 115 kV K13J/K14J Corridor

   The following line capacity plan was recommended by the TWG previously and is underway:

   - Richview TS x Manby TS 230 kV R1K/R2K/R13K/R15K Corridor - Phase 1 involves constructing a new 230 kV double-circuit line within the existing corridor and forming two super circuits, R2K and R15K.The work was completed in 2026. Phase 2 will unbundle these super circuits, with one new circuit connected to Manby West and the other to Manby East. At Richview TS, the new circuits will be tapped into two existing 230 kV circuits from Claireville TS. Phase 2 is anticipated to be completed around 2030.

2. **Station Capacity Needs**

   The following station capacity needs were identified and were reviewed by the TWG in the current RP cycle:

   - Bathurst TS & Finch TS 230 kV/27.6 kV – Connect Downsview MTS to supply the Bathurst load through a two-phase DESN implementation. The first DESN is planned for Phase 1 and the second DESN for Phase 2, with planned in-service dates of 2033 and 2039, respectively.
   - Scarboro TS – Build third Scarboro TS DESN to supply Scarboro load. The planned in-service date is 2035.
   - Basin TS – Develop an expansion of Basin TS or add a new station in the area. The planned in-service date is 2035.
   - Sheppard TS – Expand T1/T2 DESN using the idle windings. The planned in-service date is 2029.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.

- Basin TS – T3/T5 (45/75 MVA) transformers will be replaced with new 60/100 MVA units The planned in-service date is 2030.
- Manby TS – Autotransformers T7, T9 and T12 (150/250 MVA) will be replaced with similar 250 MVA units. The planned in-service date is 2030. Non-standard transformers T13/T14 will be replaced with the standard size of 75/125 MVA units. The planned in-service date is 2033.
- Leslie TS – T1/T4 (75/125 MVA) transformers will be replaced with a standard unit of same size without dual LV voltages (i.e., a 230-27.6-27.6 kV 75/125 MVA unit). The planned in-service date is 2032.
- Dufferin TS – T1 (45/75 MVA) transformer will be replaced with a new 60/100 MVA unit. The planned in-service date is 2032.
- Cecil TS – 155 kV switchgear replacement. The planned in-service date is 2032.
- Bermondsey TS – T3/T4 transformers (75/125 MVA) will be replaced with units of same size. The planned in-service date is 2033.
- Strachan TS – T14, T13 and T15 transformers (45/75 MVA) will be replaced with new 60/100MVA units. The planned in-service date is 2027 for T14 and 2033 for T13/T15.
- Agincourt TS – T5/T6 (75/125 MVA) transformers will be replaced units of same size The planned in-service date is 2033.
- Terauley TS – T1/T2/T3/T4 (75/125 MVA) transformers will be replaced with standard 60/100 MVA) units. The planned in-service date is 2033.
- Carlaw TS – T1/T2 (45/75 MVA) transformers will be replaced with new 60/100 MVA units. The planned in-service date is 2033.
- Rexdale TS – T2 (75/100 MVA) transformer will be replaced with a unit of same size. The planned in-service date is 2033.
- John TS – T3 (45/75 MVA) transformer will be replaced with a new 60/100 MVA unit. The planned in-service date is 2033.
- Duplex TS – T1/T2/T3/T4 (45/75 MVA) transformers will be replaced with new 60/100MVA units. The planned in-service date is 2034.
- Fairchild TS – T1/T3/T4 (75/125 MVA) transformers will be replaced with units of same size. The planned in-service date is 2034.
- Warden TS – T4 (75/125 MVA) transformer will be replaced with a unit of same size. The planned in-service date is 2035.
- Finch TS – T1 (75/125 MVA) transformer will be replaced with a unit of same size. The planned in-service date is 2035.
- H1L/H3L/H6LC/H8LC – Conductors along the overhead section between Leaside Jct. to Bloor St. Jct. will be replaced with larger size conductors. The planned in-service date is 2031.
- L9C/L12C – Conductors along the overhead section between Leaside TS and Balfour Jct. will be replaced with larger size conductors. The planned in-service date is 2031.
- H1L/H3L & H2JK – Underground cable between Gerrard TS and Basin TS will be replaced with larger size conductors. The planned in-service date is 2035.

4. **Transformation Capacity Needs**
   - Manby TS West (Autotransformers) – Area supply is limited by the Limited Time Rating (LTR) of a single autotransformer under the loss of two autotransformers, with a 150 MW RAS in service. The TWG will continue to monitor the demand growth in this area and revisit this capacity need in the future.

5. **Transmission Line Capacity Needs**
   - K13J/K14J 115 kV – Conductors along the overhead section between Manby TS and Riverside Jct. will be replaced with larger size conductors to match the ampacity of the other two circuits in the corridor (K6J and H2JK). The planned in-service date Q2-Q3 2030.
   - R1K/R2K/R13K/R15K 230 kV – Corridor reinforcement will be completed in a two-phase implementation. Phase 1 will construct a new 230 kV double circuit line to create a super circuit with a planned in-service date by March 2026. Phase 2 will unbundle the super circuits with one connected to Manby West and the other connected to Manby East with a planned in-service date by 2030.

4.3 Windsor-Essex

The Windsor-Essex region includes the southerly portion of Ontario, extending from Chatham southwest to Windsor. It consists of the City of Windsor, the Municipality of Leamington, the Town of Amherstberg, the Town of Essex, the Town of Kingsville, the Town of Lakeshore, the Town of LaSalle, the Town of Tecumseh, and the Township of Pelee, as well as the western portion of the Municipality of Chatham-Kent.

Planning Cycle	Status	Next Steps
Third	RIP Completed October 2025	Fourth Cycle NA beginning in February 2028

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Keith TS - Replaced T11/T12 transformers replacement (completed in 2023)
- Kingsville TS - 25/42 MVA T1, T2, T3, T4 transformers replacement with 50/83 MVA T5, T6 (completed in 2022)
- South Middle Road - TS T3/T4 new DESN (completed in 2022; second DESN completed in 2025)
- Lakeshore TS - Build new switching station at Leamington Junction (completed in 2022)
- Keith TS - T1 decommissioning (completed in 2021)
- Chatham SS X Lakeshore TS, double circuit 230 kV line completed in 2024.
- Lauzon TS T5/T6 – The transformers were replaced with upgraded units (completed in 2026)

Needs and Plans Underway:

1. Line Capacity Needs

The following line capacity needs were identified and were reviewed by the TWG in the current RP cycle:

- Kingsville-Leamington Area supply capacity - Construction of new 34 km double-circuit 230 kV Lakeshore TS x Lauzon TS line plus associated Lauzon 230 kV switching facility. The in-service date is 2032.
- West Essex and Windsor sub-system supply capacity - Construction of new 22 km double-circuit 230 kV from Lakeshore TS to supply the new Leamington DESN 5 and 6. The planned in -service date is 2029.
- Coatsworth Area supply capacity - Construction of new Chatham-by-Lakeshore 230 kV double-circuit transmission line. The planned in -service date is 2029.
- Construction of Chatham SS x Lambton TS 2-cct 230 kV line - The planned in -service date is 2027.
- Construction of Longwood TS x Lakeshore TS 1-cct 500 kV line - The planned in -service date is 2030.

2. Station Capacity Needs

The following station capacity needs were identified and were reviewed by the TWG in the current RP cycle:

- Belle River TS - Load transfer to Lauzon DESN1/2 following upsizing of transformers. Operational measures would be used to manage capacity overload until the transfer which will be completed in 2027.
- Tilbury West DS - Need is identified for 2037, to be monitored and if required, plan is to upsize the existing transformers.
- Lauzon TS T7/T8 - Transformer replacement with upsized units plus associated station upgrade. The planned in -service date is 2032.
- Kingsville – Leamington Greenhouse supply stations - Construction of two new 75/125 MVA 230/27.6 -27.6 kV DESN stations (Leamington DESN 5 and 6). The planned in -service date is 2027.
- Coatsworth Area Greenhouse Supply Station - Construction of new Coatsworth Area 75/125 MVA 230/27.6 -27.6 kV DESN1. The planned in -service date is 2029.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Keith TS – Phase angle regulator PSR5 installed in the J5D interconnection will be replaced. The planned in-service date is 2028.
- Lauzon TS – T7/T8 transformers will be replaced with like-for-like units. The planned in-service date is 2032.

4. **System Reliability, Operation and Load restoration Needs**
   - Operational complexity of the Lakeshore RAS: Installation of dual batteries at Leamington TS and South Middle Road TS. The planned in-service date is 2027.
   - Low voltage concern about loss of Lauzon TS HV capacitor bank with autotransformer: Development of an appropriate 230 kV switching at Lauzon TS will mitigate this concern. The planned in-service date is 2032.
   - Restoration in Kingsville-Leamington Sub-system: Development of 2-circuit 230 kV line linking the new Kingsville-Leamington supply line to Leamington TS. The planned in-service date is 2030.

4.4 GTA North

The GTA North Region is approximately bound by the Regional Municipality of York, and includes parts of the Cities of Toronto, Brampton, and Mississauga.

Planning Cycle	Status	Next Steps
Third	RIP Completed May 2026	Fourth Cycle NA beginning in July 2028

The status of the needs and plans recommended in this region are provided below:

Needs and Plans Underway:

1. **Transmission Line Capacity Needs**
   The following line supply capacity needs are identified by the TWG in the current RP cycle:
   - P45/P46 230 kV – Upgrade line from Parkway TS to Markham MTS #4. The planned in-service date is 2031.
   - P45/P46 230 kV – Upgrade line from Markham MTS #4 to Buttonville TS. The planned in-service date is 2034.
   - P45/P46 230 kV – Extend and build line from Buttonville TS 7km North. The planned in-service date is 2034.
   - C35P/C36P – Reconnect Markham MTS #4 to C35P/C36P. The planned in-service date TBD in the next RP cycle.

2. **Station Capacity Needs**
   The following station capacity needs were identified and were reviewed by the TWG in the current RP cycle:
   - Kleinburg TS T3/T4 Addition
   - Vaughan MTS #6
   - Northern York TS #1
   - Northern York TS #3
   - Richmond Hill MTS #3
   - Vaughan MTS #5
   - Markham MTS #5/Buttonville TS #2

- Markham MTS #6
- Northern York TS #2

The following station capacity plans were recommended by the TWG and are underway:

- Kleinburg TS – T3/T4 transformer replacement and feeder breaker positions (in- service date 2028) to increase 44 kV transformation capacity.
- Vaughan MTS #6 – New transformer station to increase transformation capacity in the City of Vaughan.
- Northern York TS #1 (NY-TS#1) - New 230/44 kV DESN to increase transformation capacity in Northern York subregion.
- Markham MTS #5/Buttonville TS #2 - New 230/27.6 kV DESN to increase transformation capacity in the City of Markham.
- Richmond Hill MTS #3 – New 230/27.6 kV DESN to increase transformation capacity in the City of Richmond Hill.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Woodbridge TS – T5 transformer (75/125 MVA) will be replaced with a unit of same size. The planned in-service date is 2032.

4. System Reliability

- Kleinburg–Kirby Transmission Link – A new ~6 km 230 kV line connecting Kleinburg TS to the H82/83V circuits to relieve congestion and support long-term load growth in York Region. The planned in-service date is 2032.
- Kleinburg TS Bulk Supply Upgrade (500/230 kV Station) – Expansion of Kleinburg TS into a bulk supply hub with new autotransformers to increase capacity and relieve pressure on the existing system. The planned in-service date is 2032.
- York Energy Centre Station Service Upgrade – Installation of an alternate station service supply or automatic transfer system to improve reliability, restoration capability, and system capacity. The planned in-service date is 2026.
- Holland Marsh Switching Station – Development of a new switching station to sectionalize circuits and enable integration of future stations such as Northern York TS #3. The planned in-service date is TBD.
- New Northern York Transmission Supply Option – Evaluation of new transmission routes or upgrades to provide additional supply for long-term demand growth in the Northern York region. The planned in-service date is 2031.
- V71P/V75P In-line Breakers – Installation of in-line breakers to reduce load interruption risk and improve restoration performance on critical corridors (planned in-service date is 2030).
- Claireville–Minden Voltage and Thermal Issues – Monitoring and mitigation of overvoltage, undervoltage, and thermal overload conditions under contingency scenarios. The planned in-service date is TBD.

- H82V/H83V Circuit Upgrades (Kirby to Holland Marsh) – Potential reconductoring or upgrades to increase capacity and support future system reliability needs. The planned in-service date is TBD in the next RP cycle.

5. Load Security and Restoration Needs

- V43/V44 Kleinburg Radial Tap – Forecast load on the Kleinburg radial tap is expected to exceed the ORTAC 600 MW load security threshold by 2029. The planned Kleinburg TS bulk supply upgrade will reduce loading and improve restoration capability. The planned in-service date is 2031–2032.
- V71P/V75P – Existing and future load growth on the V71P/V75P corridor exceeds ORTAC load security limits, requiring in-line breakers to sectionalize the line and improve restoration following major outages. The planned in-service date is 2030.
- P45/P46 Buttonville Corridor – Projected load growth will create load security concerns by 2034 Reconnecting Markham MTS #4 to the C35P/C36P corridor is expected to reduce corridor loading and mitigate the issue (planned in-service date is 2034).
- H82V/H83V Northern York Area – Loss of both circuits would interrupt loads that cannot be restored within ORTAC timelines. Improving York Energy Centre station service and restoration arrangements will enhance recovery capability.
- B88H/B89H Northern York Area – Load security concerns are expected to emerge by 2035 as corridor demand exceeds acceptable limits, and the need will be reassessed in the next planning cycle.

4.5 Greater Ottawa

Greater Ottawa Region covers the municipalities bordering the Ottawa River from Stewartville in the West to Hawkesbury in the East and North of Highway 43. At the center of this region is the Ottawa Area, comprising the City of Ottawa and surrounding municipalities including Kanata, Nepean, and Orleans.

Planning Cycle	Status	Next Steps
Third	RIP Completed February 2026	Fourth Cycle NA beginning in July 2028

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- New Piperville MTS – In serviced in 2026.
- Lisgar TS – T1 Replacement (completed in 2025)
- Longueil TS - T1/T2 replacement (completed in 2025)
- Lincoln Heights TS Transformer T1/T2 Replacement (completed in 2024)
- Slater TS T1/T2/T3 –T1/T2/T3 replacement (completed in 2024)
- M30A/M31A – The 230 kV circuits replacement (completed in 2023)
- Arnprior TS - Transformers T1/T2 Replacement and Rebuilding (completed 2023)

- Cambrian MTS and South Nepean Transmission reinforcement: The section of S7M single circuit 115 kV lines was rebuilt as a double circuit 230 kV line. The two circuits were extended to supply the new MTS. (completed in 2022)
- King Edward TS T3 replacement (completed in 2021)
- Hawthorne TS - T7/T8 replacement (completed in 2019), T5/T6 replacement (completed in 2021) and T2 replacement (completed in 2026)

Needs and Plans Underway:

1. Line Capacity Needs

The following line supply capacity needs were identified and are being reviewed by the TWG in the current RP cycle:

- 115 kV L2M Supply Capacity
- M4G/M5G Line Uprate
- A4K Corridor Monitoring

2. Station Capacity Needs

The following line supply capacity needs are identified in the current RP cycle:

- Kanata North MTS
- Bronson MTS
- Greenbank MTS
- South March TS
- Albion TS
- Carling TS
- Lisgar TS
- King Edward TS
- Nepean TS
- Riverdale TS
- Cyrville MTS
- Moulton MTS
- Marionville DS
- Greely DS
- Manotick DS
- Hinchey TS
- Rockland DS
- Rockland East DS
- Manordale MTS
- Nepean Epworth MTS
- Kanata MTS
- Ellwood MTS
- Limebank MTS
- Bridlewood MTS
- Marchwood MTS
- Centrepoint MTS
- Fallowfield MTS

The following station capacity plans were recommended by the TWG and are underway:

- Russell TS T1/T2 – The planned in-service date for replacement of these transformers with upgraded units is 2027.
- Hawkesbury MTS T2 – The planned in-service date for replacement of this transformer with an upgraded unit is 2027-2028.
- Merivale TS T22/T23 – The planned in-service date for replacement of T22, addition of T23, and replacement of six (6) 230 kV circuit breakers and four (4) 115 kV circuit breakers is 2029.
- Bilberry Creek TS – Station to be retired by 2030, with load being transferred to Mer Bleue MTS and Orleans TS.
- Orleans TS – Station upgrade from dual supply to DESN. The planned in-service date is June 2029.
- Mer Bleue MTS - The planned in-service date for connection of this new station is July 2027. This project is also planned to connect circuit A25 with expected in-service in June 2029.
- New Hydro Rd. MTS - The planned in-service date is 2027.

- New Greenbank MTS – The planned in-service date is 2027.
- South March BESS - Connection of new 250MW Battery Energy Storage System to 230kV circuit C3S. The planned in-service date for connection is Q2 2027.
- Trail Road BESS - Connection of new 159MW Battery Energy Storage System to 230kV circuit E34M. The planned in-service date for connection is 2027.
- New Hawthorne TS x Orleans TS 230 kV circuit and Orleans TS upgrade - The planned in-service date is 2029.

3. Asset Renewal for major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.

- South March TS – T1/T2 (45/60/75 MVA) transformers will be replaced with new 75/100 MVA units. The planned in- service date is 2031.
- Albion TS – T1/T2 (45/60/75 MVA) transformers will be replaced with new 60/80/100 MVA units. The planned in-service date is 2031.
- Nepean TS – T3/T4 (75/125 MVA) transformers will be replaced with units of similar size. The planned in-service date is 2034.
- 115 kV S7M Line Refurbishment – Conductors and other components along the overhead section spread across multiple S7M line sections totaling 6.5 km will be replaced. The planned in-service date is 2030.

4. System Reliability, Operation and Load Restoration Needs

- Nepean TS Second Supply – A new second 230 kV supply from Merivale TS will be added to address load security concerns caused by the station's single-circuit supply and ensure compliance with ORTAC criteria. The planned in-service date is 2032.
- Kanata Area Transmission Reinforcement – A new switching station and associated transmission reinforcements will improve reliability, operational flexibility, and support growth in the Kanata area, including the new Kanata North MTS. The planned in-service date is 2033.
- M1R/L2M Breaker Separation at Merivale TS – A new breaker will be installed to separate the M1R and L2M circuits, eliminating the risk of a common-mode outage and improving load security. The planned in-service date is 2032.
- S7M Loading and Voltage Improvements – Loading and voltage performance issues on S7M will continue to be monitored, with potential future solutions including 230 kV conversion or reactive power support. The planned in-service date is TBD.
- East Ottawa Supply Reinforcement – Reliability in East Ottawa will be improved by retiring Bilberry Creek TS, upgrading Orleans TS to a 230 kV DESN, constructing the new A25 circuit, and connecting Mer Bleue MTS to the 230 kV system. The planned in-service date is 2029–2030.

4.6 Kitchener-Waterloo-Cambridge-Guelph (KWCG)

The KWCG region includes the municipalities of Kitchener, Waterloo, Cambridge, and Guelph, as well as portions of Perth and Wellington Counties and the Townships of Wellesley, Woolwich, Wilmot, and North Dumfries.

Planning Cycle	Status	Next Steps
Third	IRRP Completed July 2026	RIP expected to be completed by February 2027

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- B5C/B6C Circuit Refurbishment – 27 km 115 kV B5C/B6C line sections from Burlington TS to Westover CTS (completed 2025)
- Hanlon TS - T1/T2 replacement (completed in 2022)
- Detweiler TS - T2 autotransformer replacement (completed in 2020) and T4 autotransformer and component replacement (completed in 2021)
- Tower 157 near Freeport SS for D7F/D9F 115 kV - Refurbishment (completed in 2020/2021).
- Kitchener MTS #5 - T9/T10 replacement (completed in 2025)

Needs and Plans Underway:

1. **Line Capacity Needs**
   The following station capacity needs were identified and are being reviewed by the TWG in the current RP cycle:
   - Galt Jct. x Cambridge #1 Jct. 115 kV M20D/M21D Corridor
   - Detweiler TS x Kitchener MTS#1 & #4 Jct. 115 kV D11K/D12K corridor
   - D8S/D10H
   - 115 kV Sub-System between Detweiler TS and Preston TS autotransformer
   - 115 kV Sub-System between Burlington TS and Cedar TS autotransformers
   - Detweiler TS x Fergus TS x Cedar TS 230 kV D6V/D7V Corridor

2. **Station Capacity Needs**
   The following station capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:
   - Preston TS
   - Galt TS
   - Hanlon TS
   - Campbell TS
   - Rush MTS
   - Waterloo MTS #3
   - Cedar TS (T7/T8)
   - Cedar TS (T1/T2)
   - Puslinch DS
   - Wolverton DS
   - Kitchener MTS #1
   - Kitchener MTS #4
   - Kitchener MTS#5
   - Kitchener MTS#6
   - Kitchener MTS#7
   - Kitchener MTS#8
   - GBE MTS#1
   - Scheifele MTS

3. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.
   - Cedar TS – 115kV T7/T8 transformers to be replaced and converted to 230kV DESN. The planned in-service date is 2032.
   - Preston TS – T3/T4 transformers (75/125 MVA) will be replaced with standard like-for-like units. The planned in-service date is 2027.
   - Scheifele MTS - T1/T2/T3/T4 Transformer replacement: These four (T1/T2/T3/T4) transformers are expected to approach end of life over the next 10-year horizon and are planned for replacement by Enova Power Corp. The expected year of replacement is between 2029-2033.
   - Campbell TS – breakers and component replacement. The planned in-service date is 2034.

4. **System Reliability, Operation and Restoration Needs**
   - Load security and load restoration scenarios and options for the loss of 230kV circuits M20D/M21D are being reviewed by the TWG in the current RP cycle.
   - Load restoration scenarios and options for the loss of 230kV circuits D6V/D7V are being reviewed by the TWG in the current RP cycle.
   - Voltage performance for the M20D/M21D contingency is being reviewed by the TWG in the current RP cycle.

4.7 GTA West

The GTA West Region covers the Regional Municipalities of Halton and Peel, and comprises the municipalities of Brampton, South Caledon, Halton Hills, Mississauga, Milton, Oakville, and parts of Burlington.

Planning Cycle	Status	Next Steps
Third	NA Completed August 2024	IRRP expected to be completed by November 2026

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Tremaine TS – Add 4 x 27.6 kV feeders (completed in 2020)
- R19TH/R21TH overload – A Key Operation Point (KOP) has been implemented in Hydro One control room to manage the N-1-1 post contingency thermal overload.

Needs and Plans Underway:

1. Line Capacity Needs

The following line supply capacity need was identified and will be further reviewed by the TWG in the current RP cycle:

- Transmission reinforcement plan in Milton Area.

The following line capacity plans were recommended by the TWG previously and are underway:

- H29/H30 Reconductoring – The planned in-service date is 2029.
- Richview X Trafalgar transmission circuit capacity – The planned in-service date is 2026.

2. Station Capacity Needs

The following station capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:

- Halton #2 TS
- Bramalea TS T1/T2
- Erindale T1/T2
- Cardiff TS T1/T2
- Cooksville TS T1/T2 and T3/T4
- Pleasant T5/T6
- Jim Yarrow T1/T2
- Goreway T5/T6

The following station capacity plans were recommended by the TWG previously and are underway:

- Bramalea TS T3/T4 – The planned in-service date for replacement of these transformers with upgraded units is 2035.
- Lorne Park TS T2 - The planned in-service date for replacement of this transformer is beyond 2034.
- Pleasant TS T1/T2 - The planned in-service date for replacement of these transformers with standard units is TBD.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Palermo TS – T3/T4 transformers (50/83 MVA) will be replaced with 75/125 MVA units. The planned in-service date is 2027.
- Tomken TS – T1/T2 transformers (75/125 MVA) (75/125 MVA) will be replaced with like-for-like units. The planned in-service date is beyond 2034.
- Halton TS – T3/T4 transformers (75/125 MVA) will be replaced with like-for-like units. The planned in-service date is beyond 2034.
- Pleasant TS – T5/T6 transformers (75/125 MVA) will be replaced with like-for-like units. The planned in-service date is 2035.
- Bramalea TS – T3/T4 transformers (50/83 MVA) will be replaced with (75/125 MVA) units. The planned in-service date is 2035.

4. **System Reliability, Operation and Restoration Needs**
   - Load security scenarios of T38B/T39B corridor which will exceed load security limit of 600MW in 2029 are being reviewed by the TWG in the current RP cycle.
   - Hydro One and IESO operation departments are coordinating to assess alternatives including Trafalgar TS Autotransformer tap changer position adjustment for high voltage at Trafalgar 230kV bus under light load conditions.

4.8 Greater Bruce/Huron

The Greater Bruce/Huron area is located to the west of the Kitchener-Waterloo region in southwestern Ontario. The region includes the municipalities of Arran–Elderslie, Brockton, Kincardine, Northern Bruce Peninsula and South Bruce. It also includes the township of Huron-Kinloss.

Planning Cycle	Status	Next Steps
Third	RIP Completed April 2025	Fourth Cycle RP beginning in April 2029

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Wingham TS - Transformers T1 and T2 Replacement (completed in 2024)
- Bruce B SS – 500 kV ABCB circuit breakers replacement (completed in 2025).
- Seaforth TS x Kirkton Jct. - 115 kV L7S circuit capacity increase and clearance improvement (completed in 2022-2023)
- Bruce A TS - 230 kV ABCB station refurbishment (completed in 2022)
- Stratford TS - T1 and component replacement (completed in 2022)
- Hanover TS - T2 and component replacement (completed in 2022)
- Detweiler TS - T2/T4 autotransformers and component replacement (completed in 2021)
- 115 kV L7S Circuit – Capacity Increase and Clearance Improvement between Seaforth TS and Kirkton JCT. This project was completed between 2022 to 2023.

Needs and Plans Underway:

1. **Station Capacity Needs**
   The following station capacity need was identified and were reviewed by the TWG in the current RP cycle:
   - Load transfer between Detweiler TS in KWCG region and Hanover TS.

2. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.
   - Seaforth TS – T5/T6 autotransformers (150/250 MVA) and T1/T2 transformers (25/42 MVA) will be replaced with like-for-like units. The planned in-service date is 2026.
   - Bruce A TS – 500 kV ABCB circuit breakers will be replaced with new SF6 tank circuit breakers. The planned in-service date is 2027.
   - Owen Sound TS – T5 autotransformers (150/250 MVA) will be replaced with like-for-like unit. The planned in-service date is 2032.
   - Douglas Point TS – T3/T4 transformers (50/83 MVA) will be replaced with like-for-like units. The planned in-service date is 2037.
   - Stratford TS – T2 transformer (50/83 MVA) will be replaced with like-for-like unit. The planned in-service date is 2038.

3. **System Reliability, Operation and Restoration Needs**
   - **L7S Circuit** – Circuit capacity increase and clearance improvement between Seaforth TS and Kirkton Jct. have been completed in 2022-2023 with replacement of deficient line components on various sections of this circuit to improve the delivery point performance. Hydro One will continue monitoring the performance of the remaining sections of this circuit and will proceed with corrective plans as required.

4.9 East Lake Superior

The ELS Region includes all of Hydro One Sault Ste. Marie's 560km high-voltage transmission lines as well as ties to the rest of the provincial grid at Wawa TS in the northwest and Mississagi TS in the northeast. The region also includes Hydro One's 115 kV W2C circuit supplying the Town of Chapleau from Wawa TS.

Planning Cycle	Status	Next Steps
Third	IRRP Completed July 2026	RIP expected to be completed by February 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Providing remote arming of Third Line TS Instantaneous Load Rejection ("ILR") scheme to the IESO (completed in 2023-2024)
- Echo River TS – Install new transformer and breaker replacement (completed in 2024).
- Batchawana TS – Components replacement (completed in 2024).
- Wawa TS – Component replacement (completed in 2025).
- Sault No. 3 – Line replacement (completed in 2026).

Needs and Plans Underway:

1. **Line Capacity Needs**
   The following line supply capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:
   - 115 kV Algoma No.1/No.2/No.3 circuits
   - 115 kV Sault No. 3 circuit
   - Chapleau Area W2C supply path

2. **Station Capacity Needs**
   The following station capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:
   - Anjigami TS
   - Hollingsworth TS
   - Third Line TS
   - Tagona West TS

3. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.
   - Third Line TS – P21G/P22G line protection replacement. The planned in-service date is 2026.
   - Third Line TS – T2 autotransformer (150/250 MVA) will be replaced with like-for-like unit. The planned in-service date is 2027.
   - 115 kV Sault No. 3 – existing conductor and wood pole to be replaced with new 115 kV rated line and structures. The planned in-service date is 2026.
   - Goulais TS – Components replacement. The planned in-service date is 2028.
   - Patrick St. TS – 115 kV breakers will be replaced with like-for-like units. The planned in-service date is 2031.
   - Northern Ave TS – T1 transformers (20/26.7 MVA) will be replaced with like-for-like unit. The planned in-service date is 2032.
   - Clergue TS – Metal clad switchgear to be replaced. The planned in-service date is 2029.
   - Hollingsworth TS – Protection will be replaced. The planned in-service date is 2033.
   - D.A Watson TS – Metal clad switchgear to be replaced. The planned in-service date is 2033.
   - St. Mary's MTS and Tarentorus MTS – Stations to be refurbished/upgraded. TWG recommends further reviewing the need in the current RP cycle.

4. **System Reliability, Operation and Load restoration Needs**
   - Third Line TS 115 kV voltage limitations - Existing voltage limit at Third Line TS 115 kV bus is restricted to operate between 118 kV - 124 kV range. TWG Recommended to monitor need until PUC Distribution replaces existing transformers with new units equipped with ULTC at St. Mary's MTS.

- Voltage violation at Third Line TS can be mitigated by using Load Rejection (LR) schemes and/or Remedial Action Schemes (RAS). TWG Recommended to review the necessity of LRs and RAS contingencies at Third Line TS in the next phases of the current RP, in coordination with SIA for the new northeast bulk projects.

4.10 GTA East

GTA East Region comprises the municipalities of Pickering, Ajax, Whitby, Oshawa, and parts of Clarington and other parts of Durham Region.

Planning Cycle	Status	Next Steps
Third	IRRP Completed October 2026	RIP expected to be completed by May 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Wilson TS - T1/T2 and switchyard refurbishment (completed in 2024)
- Increase Transformation Capacity in Pickering-Ajax-Whitby Sub-region - Seaton MTS has been built and placed in-service (completed in 2023)
- Cherrywood TS 230kV breaker replacement – Phase 1 (completed in 2023)

Needs and Plans Underway:

1. Line Capacity Needs

The following line capacity need was identified and will be further reviewed by the TWG in the RP cycle:

- Major transmission expansion in Oshawa-Clarington sub-region area will be needed to accommodate increasing new large load connection requests. Existing 230kV transmission facilities do not have sufficient capacity to meet the new demand.

2. Station Capacity Needs

The following station capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:

- Whitby TS (T1/T2)
- Thornton TS (T3/T4)
- Wilson TS (T7/T8)
- Wilson TS (T3/T4)

Recommendations from the IRRP are below:

- Pickering-Ajax-Whitby needs – Build new 230kV transformer in north Pickering/Whitby area connected to P15C and T28C.

- Oshawa-Carington needs – Develop new 230kV transformer station capacity in Oshawa-Clarington area supplied from Durham-Kawartha Power Line.
- GTA East needs – Pursue additional eDSM programs for Cherrywood TS, Whitby TS, Wilson TS, and Thornton TS to reduce electricity demand by a total of 75 MW by 2042.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.

- Cherrywood TS 230 kV and 500 kV Breaker Replacement – Existing 230 kV and 500 kV circuit breaker will be replaced in phases. Two phases are underway with planned in-service dates of 2033 and 2037, respectively. Cherrywood TS LV Switchyard Refurbishment – 44 kV DESN switchyard will be replaced. The planned in-service date is 2032.
- Wilson TS – T3 and T4 (75/100/125 MVA) transformers will be replaced with like-for-like units. The planned in-service date is 2031.

4. System Reliability, Operation and Load restoration Needs

- T23C/T29C corridor exceeds the load security limit of 600 MW in 2032. The TWG recommends further regional coordination to address the T23C/T29C corridor load security issue.

5. Transmission Reinforcement Needs

- Major transmission expansion in Oshawa-Clarington sub-region area will be needed to accommodate increasing new large load connection requests. Existing 230kV transmission facilities do not have sufficient capacity to meet the new demand.

4.11 London Area

The London Area includes the Cities of Woodstock, London and St. Thomas as well as the Counties of Middlesex, Elgin, and Oxford.

Planning Cycle	Status	Next Steps
Third	NA Completed November 2024	IRRP expected to be completed by October 2026.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Edgeware TS - PCT and component replacement (completed in 2024)
- Reversing of the normally open point at Cranberry Junction, per the Aylmer-Tillsonburg Reinforcement project (completed in 2024)
- Tillsonburg TS - Component replacement (completed in 2023)

- Nelson TS - Station refurbishment (completed in 2022)
- Tillsonburg TS - Low voltage capacitor banks installation (completed in 2021)
- Sarnia Scott TS x Buchanan TS - 230 kV N21W/N22W circuits tower structures refurbishment (completed in 2021)
- St. Thomas TS – Decommissioning and 115 kV W14 circuit re-termination work (completed in 2020)

Needs and Plans Underway:

1. Line Capacity Needs

The following line capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:

- W44LC/W45LS – 230 kV Thermal Limits: For the loss of one of the W44LC or W45LS, the loading on the (Buchanan JCT x Edgeware JCT) section exceeds its post-contingency rating in the medium-Term.
- WT1T/W14 -115 kV – Thermal Limits: The loading on the (Cranberry JCT x ESWF JCT) and the (ESWF JCT x Tillsonburg JCT) exceeds its pre-contingency rating in the Near-Term.

2. Station Capacity Needs

The following station capacity needs were identified and will be further reviewed by the TWG in the current RP cycle:

- Aylmer TS
- Clarke TS
- Edgeware TS
- Nelson TS
- Strathroy TS
- Talbot T1/T2 DESN
- Talbot T3/T4 DESN
- Tillsonburg TS
- Wonderland TS
- Woodstock TS

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Buchanan TS – T2/T3 autotransformers (150/250 MVA) will be replaced with like-for-like units. The planned in-service date is 2033.
- Clarke TS – T3/T4 transformers (50/83 MVA) will be replaced with like-for-like units. The planned in-service date is 2034.
- Talbot TS – T3/T4 transformers (75/125 MVA) will be replaced with like-for-like units. The planned in-service date is 2031.

- M31W/M32W – Removal of existing microwave link connecting Ingersoll TS to Buchanan TS and installation of OPGW fiber from Salford Jct. to Ingersoll TS. The planned in-service date is 2031.
- W36/W37/W5NL/W6NL/W2S/N21W – Removal of existing metallic cable and installation of OPGW fiber for protection and SCADA applications. The planned in-service date is beyond 2034.
- Wonderland TS – Replacement of low-voltage switchyard components. The planned in-service date is beyond 2034.

4. System Reliability, Operation and Load restoration Needs

- M31W/M32W / K7/K12/B2 - Load restoration limitation due to the loss of double-circuit line M31W and M32W or for a double contingency with the loss of both autotransformers at Karn TS
- M31W/M33W - Load restoration limitation for a single tower contingency
- W36/W37 - Load restoration limitation for a single tower contingency
- W44LC/W45LS - Load restoration limitation for a single tower contingency

4.12 Peterborough to Kingston

The Peterborough to Kingston Region includes the area roughly bordered geographically by the municipality of Clarington on the West, North Frontenac County on the North, Frontenac County on the East, and Lake Ontario on the South. The region includes Frontenac County, Hasting County, North Humber land County, Peterborough County, Prince Edward County, and related municipalities.

Planning Cycle	Status	Next Steps
Third	NA Completed December 2024	IRRP expected to be completed by April 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Gardiner TS (Station Capacity) – Load transfer (~10MW) from DESN1 to DESN2 (completed in 2024)
- Belleville TS - T1/T2 replacement (completed in 2022)
- Otonabee TS/Dobbin TS - Load Transfer from Otonabee TS to Dobbin TS (completed in 2022 and 2025)

Needs and Plans Underway:

1. Line Capacity Needs

The following line supply capacity need was identified in the second RP cycle and will be further reviewed by the TWG in the current RP cycle:

- Peterborough to Quinte West P15C/Q6S supply capacity.

- 115 kV B1S line: Projected to reach capacity in 2028, under Q6S contingency with high hydro generation
- 115 kV B5QK

The following line capacity plan was recommended by the TWG previously and is underway:

- **Peterborough to Quinte West P15C/Q6S** - New 230kV double circuit line from Clarington TS to Dobbin TS referred to in other sections of this report as the Durham Kawartha Powerline. The planned in-service date is 2029.

2. Station Capacity Needs

The following station capacity need were identified and will be further reviewed by the TWG in the current RP cycle:

- Frontenac TS
- Napanee TS (T1/T2)
- Gardiner TS (T1/T2)
- Dobbin TS (T3/T4)
- Belleville TS
- Cataraqui TS
- Picton TS
- Hinchinbrook DS

The following station capacity plans were recommended by the TWG previously and are underway:

- Gardiner TS T1/T2 – The planned in-service date for replacement of these transformers with new standard units is 2027.
- Belleville TS New DESN #2 – The planned in-service date for a new 75/125 MVA 230/44 kV DESN is 2026.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Picton TS – T1 and T2 transformers (50/83 MVA) will be replaced with like-for-like units. The planned in-service date is 2026.
- Port Hope TS – T3 and T4 transformers (50/83 MVA) will be replaced with like-for-like units. The planned in-service date is 2033.
- Gardiner TS – T1/T2 transformers (75/125 MVA) will be replaced with standard like-for-like units. The planned in-service date is 2027.
- Lennox TS – Ten (10) existing 230kV ABCB & oil breakers to be replaced by new SF6 breakers. Planned in-service year is 2026.
- Dobbin TS – T1 and T2 autotransformers are to be replaced by new 150/250MVA units and decommissioning of T5 autotransformer with an expected in-service date in end of 2028.
- Cataraqui TS - T1 and T2 230/115kV Autotransformers to be replaced with 150/200/250 MVA units. The planned in-service date is 2032.

4.13 South Georgian Bay/Muskoka

The geographical area of the South Georgian Bay/Muskoka Region is the area roughly bordered by West Nippising on the North-West, the Algonquin Provincial Park on the Northeast, Scugog on the South, Erin on the South-West, and Grey Highlands on the West.

Planning Cycle	Status	Next Steps
Third	NA Completed August 2025	IRRP expected to be completed by May 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Orangeville TS – T1/T2 replacement (completed in 2024).
- Orangeville TS – T3/T4 replacement (completed in 2024).
- Parry Sound TS - T1/T2 replacement (completed in 2023)
- Barrie area transmission upgrade (completed in 2023)
- Orilla TS - 230 kV motorized disconnect switches were installed for M6E and M7E circuits (completed in 2021)
- Minden TS - T1/T2 replacement (completed in 2021)
- Orillia TS – T2 transformer replacement (completed in 2025)
- Bracebridge TS – T1 transformer replacement (completed in 2025)

Needs and Plans Underway:

1. **Line Capacity Needs**
   The following line supply capacity need was identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:
   - Essa TS x Midhurst TS 230 kV M6E/M7E

   The following line capacity plan was recommended by the TWG previously and is underway:
   - E8V/E9V – Essa TS x Orangeville TS line section will be upgraded. The planned in-service date is 2031.

2. **Station Capacity Needs**
   The following station capacity needs were identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:
   - Everett TS (T1/T2)
   - Alliston TS (T3/T4)
   - Midhurst TS (T1/T2)
   - Midhurst TS (T3/T4)

   The following station capacity plan was recommended by the TWG previously and is underway:

- Waubaushene TS T5/T6 – The planned in-service date for replacement of these transformers with upgraded units is 2028.
- InnPower MTS Construct new 230/27.6kV 83MVA and extend 230kV E28B/E29B circuits to connect. The planned in-service year is 2030.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.

- E8V / E9V – 112 km section from Orangeville TS to Essa Jct. requires like for like refurbishment. The planned in-service date is 2031.
- Wallace TS – T3/T4 transformers (42 MVA) will be replaced with new like-for-like units. The planned in-service date is 2032.
- Midhurst TS – T4 transformer (75/125 MVA) will be replaced with like-for-like unit. The planned in-service date is 2032.
- Waubaushene TS – T5/T6 transformers (50/83 MVA) will be replaced upgraded 75/125 MVA units. The planned in-service date is 2028.
- Alliston TS – T3/T4 transformers (50/83 MVA) will be replaced with like-for-like units. The planned in-service year is in 2040. However, a new capacity need has been identified and will be studied in the current RP cycle.

4. System Reliability, Operation and Load restoration Needs

- Additional operational concerns on area interface limits on the CLAN (Claireville Area North) and FN (Flow North) limits were identified. TWG acknowledges that increased flows in the overall area impact operational limits, however this will be further assessed in bulk area studies outside of regional planning.

4.14 Sudbury/Algoma

The Sudbury/Algoma region includes the municipalities of Greater Sudbury and Espanola and surrounding areas. There are municipal Local Distribution Companies (LDCs) serving each of those municipalities and Hydro One Distribution serves the remainder of the Region. The area is supplied by transformer stations Clarabelle TS, Coniston TS, Elliot Lake TS, Larchwood TS, Manitoulin TS, and Martindale TS.

Planning Cycle	Status	Next Steps
Third	NA Completed October 2025	IRRP is expected to be completed by July 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Hanmer TS to Martindale TS 230 kV X25S/X26S unbundling (Completed in 2024)
- Martindale TS - T21/T22/T23 autotransformers and component replacement (completed in 2022)
- Manitoulin TS - CT ratio setting on the low voltage bushing of the transformer breaker was modified to allow full transformer LTR capability (completed in 2021)
- Algoma TS - T5 T6 autotransformers replacement (completed in 2021 and 2025)
- Coniston TS - Decommissioning and load transfer from Coniston TS to Martindale TS (completed in 2021)

Needs and Plans Underway:

1. **Station Capacity Needs**
   The following station capacity needs were identified in the third cycle NA and will be further reviewed by the TWG in the next phases of RP cycle:
   - Martindale TS - T25 & T26 step-down transformers and T21, T22 & T23 auto-transformers.

2. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.
   - Martindale TS – T25 and T26 transformers (75/125 MVA) will be replaced with standard equipment of similar size and capabilities. The planned in-service date is 2032.
   - Elliot Lake TS – T1 transformer (25/42 MVA) will be replaced with like-for-like unit, and T2 transformer (19 MVA) will be removed from service. The planned in-service date is 2026.
   - Clarabelle TS – T1/T2 transformers (125 MVA) will be replaced with like-for-like units. The planned in-service date is beyond 2035.

3. **Voltage Issues**
   The 115 kV bus at Manitoulin TS experiences low voltage under peak load conditions based on the demand forecast at the station. This will be studied further in the next phases of RP cycle.

4.15 Northwest Ontario

Northwestern Ontario (the Northwest) consists of the districts of Kenora, Rainy River, and Thunder Bay, which is roughly the area north of Lake Superior stretching from the Wawa area in the east and the Manitoba border in the west.

Planning Cycle	Status	Next Steps
Third	NA Completed September 2025	IRRP expected to be completed by March 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Pine Portage SS - Component replacement (completed in 2024)
- Wataynikaneyap Power Project Phase 1 (completed in 2022) and Project Phase 2 (completed in 2024)
- Rabbit Lake SS – 115 kV switchyard and components will be replaced (completed in 2024)
- Whitedog SS – 115 kV breakers and component will be replaced (completed in 2024)
- East West Tie Reinforcement (completed in 2022)
- Pickle Lake SS x Dinorwic Jct. - 230 kV Watay connection (completed in 2022)
- Birch TS - HV breaker and component replacement (completed in 2020)
- Sam Lake DS – Fan monitoring installation (completed in 2025)

Needs and Plans Underway:

An IRRP addendum to the IRRP report from the second RP cycle was completed in Aug. 2025 and the following recommendations were made by the TWG and will be underway (The planned in-service date is 2032):

- Construct a double-circuit 230 kV transmission line from Dryden TS to Ear Falls TS (100 km)
- Construct a double-circuit 230 kV transmission line from Ear Falls TS to Red Lake SS (62 km)
- Install two new 230/115 kV autotransformers at Ear Falls TS
- Install two new 230/115 kV autotransformer at Red Lake SS
- Reconfigure existing 115 kV circuits E4D and E2R to operate normally open
- Install 40 MVar shunt capacitors at: Red Lake SS, Ear Falls TS, 230 kV side of Pickle Lake TS

1. **Line Capacity Needs**
   The following line supply capacity needs were identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:
   - Pic Jct. x Manitouwadge Jct. 115 kV M2W

2. **Station Capacity Needs**
   The following station capacity needs were identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:
   - Margach DS
   - White Dog DS
   - White River DS
   - Kenora MTS

3. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.
   - Mackenzie TS – T3 autotransformer (75/125 MVA) will be replaced with like-for-like unit. HV breakers and components will also be replaced. The planned in-service date is 2026.
   - Wawa TS – T1 and T2 autotransformers (75/125 MVA) will be replaced with like-for-like units. The planned in-service date is 2028.
   - Marathon TS – Replacement of 230 kV,115 kV breakers and associated equipment. The planned in-service date is 2027.
   - Lakehead TS – Replacement of 230 kV,115 kV breakers and associated equipment. The planned in-service date is 2028.
   - Lakehead TS – Condenser C8 will be replaced with a +60/-40 MVAR STATCOM. The planned in-service date is 2028.
   - Fort Frances TS – Replacement of 230 kV breakers and associated equipment's. The planned in-service date is 2037.
   - Kenora TS – Replacement of 230 kV breakers and associated equipment's. The planned in-service date is beyond 2034.

4. **System Reliability, Operation Load Restoration Need**
   - Fort Frances MTS - Installation of a second breaker and switch in Fort Frances MTS to create a second supply to MTS. The planned in-service date is beyond 2034.
   - E1C Operation – To open E1C end at Ear Falls TS and installation of a 10 – 15 MVAR shunt reactor at Pickle Lake SS. The planned in-service date is 2026.
   - Fort Williams TS – temporary capacitor banks will be replaced with permanent units. The planned in-service date is 2027.
   - Greenstone Marathon Area System Needs – this area will be reinforced as per Ministry direction.
   - Supply to the Ring of Fire – As per the 2023 Northwest Ontario IRRP, there are a few options to energize the Ring of Fire area. With renewed interest in developing the Ring of Fire from both government and mining companies, the IESO is updating its Supply to the Ring of Fire study to help inform government policy and potential customers seeking connection. Preliminary findings were included in the 2023 Northwest IRRP. The scope and timing of the IESO's study will evolve with government policy direction. As per Ministry request, IESO conducted a Northern Connection study in Jan 2025 which includes ring of fire options.

4.16 Chatham/Lambton/Sarnia

The Chatham-Lambton-Sarnia region is located to the west of the Greater Toronto Area in southwestern Ontario. The region includes the municipalities of Lambton Shores and Chatham-Kent. It also includes the Townships of Petrolia, Plympton-Wyoming, Brooke-Alvinston, Dawn-Euphemia, Enniskillen, St. Clair, Warwick and the Villages of Oil Springs and Point Edward.

Planning Cycle	Status	Next Steps
Third	Second cycle RIP Completed August 2022	Third Cycle NA expected to be completed in November 2026.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Lambton TS - Station refurbishment (completed in 2024)
- Scott TS – T5 autotransformer replacement (completed in 2024)
- Chatham SS - 230 kV capacitor bank replaced (completed in 2020).

Needs and Plans Underway:

1. **Line Capacity Needs**
   The following line capacity plan was recommended by the TWG previously and is underway:
   - St. Clair Transmission Line – Construction of new Lambton-by-Chatham 230 kV double-circuit transmission line. The planned in -service date is 2027.

2. **Station Capacity Needs**
   The following station capacity needs were identified in the second RP and will be further reviewed by the TWG in the third RP cycle:
   - Wallaceburg TS and Kent TS area (Dresden Area)
   - Forest Jura HVDS

   The following Station capacity plan was recommended by the TWG previously and is underway:
   - St. Andrews TS T3/T4 – The planned in-service date for replacement of these transformers with like-for-like units which will increase the station capacity by 20 MVA is 2026.

3. **Asset Replacement for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.
   - St. Andrews TS – T3/T4 transformers (56/93 MVA) will be replaced with like-for-similar 50/83 MVA units. The planned in-service date is 2026.
   - Kent TS – T2 transformer (75/125 MVA) will be replaced with like-for-like unit. The planned in-service date is 2032.
   - N1S/N4S – Refurbishment of circuit section between Scott TS and Vidal Jct. The planned in-service date is 2031.
   - N6C/N7C – Refurbishment of circuit section between Scott TS and St. Andrews TS. The planned in-service date is 2031.

- S2N – Refurbishment of circuit section between Scott TS and Adelaide Jct. The planned in-service date is 2031.

4.17 Niagara

The Niagara Region comprises the municipalities of City of Port Colborne, City of Welland, City of Thorold, City of Niagara Falls, Town of Niagara-On-The-Lake, City of St. Catharines, Town of Fort Erie, Town of Lincoln, Township of West Lincoln, Town of Grimsby, Township of Wainfleet, and Town of Pelham. Haldimand County was also included in the Niagara Region.

Planning Cycle	Status	Next Steps
Third	NA Completed July 2026	IRRP expected to be completed by April 2028.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Gibson Jct. x Thorold TS D1A/D3A 115 kV line refurbishment (completed in 2024)
- Thorold TS T1 and component replacement (completed in 2024)
- 115kV D1A/D3A line refurbishment of 2.6km route length between Gibson JCT x Thorold TS. (completed in 2023).
- Port Colborne TS T61, T62 transformers and component replacement (completed in 2022)
- Stanley TS T2 transformer and component replacement (completed in 2022)
- Crowland TS x Port Colborne TS 115 kV A6C line conductor replacement (completed in 2020)
- Station No.11 CSS 2nd breaker replacement (completed in 2025)

Needs and Plans Underway:

1. **Line Capacity Needs**
   The following line capacity plan was recommended by the TWG previously and is underway:
   - Beck #2 TS x Alibi TS x Abitibi Consolidated Jct. 230kV Q28A Corridor – The planned in-service date is 2027.
   - 115 kV Line Q2AH – line refurbishment of 11.2km between Rosedene Jct. and St. Anns Jct. with conductor to be replaced due to asset condition – The planned in-service date is 2031.
   - 115 kV Line D9HS/D10HS – The section of the D9HS/D10S between Vansickle S x Louth Junction is approaching its limit by 2034. This need will be further reviewed in the third RP cycle.

2. **Station Capacity Needs**
   The following station capacity need was identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:

- Carlton TS – Complete load transfer at Bunting TS with available station capacity when required.
- Murray TS – Load demand at Murray TS exceeds its capacity in 2031.
- Allanburg DESN TS – Load demand at Allanburg TS exceeds its capacity in 2028.

The following station capacity plans were recommended by the TWG previously and are underway:

- Connect new DESN near Beamsville TS – The planned in-service date for this new DESN is 2027.
- Crowland TS T5/T6 – Replace 115/27.6 kV T5/T6 DESN with a new 230/27.6 kV DESN and supply with a new 18km 230kV transmission circuit. Project is in progress and planned to be placed in service in 2029. This plan also provides relief to Niagara region 115kV system and addresses A6C/A7C overloading and load security issue.

3. Asset Renewal for Major HV Transmission Equipment

Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Glendale TS – T1/T2/T3/T4 transformers (45/75 MVA) will be replaced with like-for-like units. The planned in-service date is 2031.
- Crowland TS – T5/T6 (50/83 MVA) transformers DESN will be replaced with new 230/27.6 kV 75/125MVA DESN. The planned in-service date is 2029.
- Murray TS – T11/12 transformers (45/75 MVA) and T13/T14 transformers (45/75 MVA) will be replaced with 60/100MVA units. The planned in-service date is 2032.
- Bunting TS – T3 transformer (45/67 MVA) will be replaced with like-for-like unit. The planned in-service date is 2038.
- Vansickle TS – Replacement of 14.2 kV metal clad. The planned in-service date is 2034.
- Allanburg TS – T3 autotransformer (150/250 MVA) will be replaced with like-for-like unit. The planned in-service date is 2032.
- 115kV Q2AH – Rosedene Jct X St. Anns Jct – Line refurbishment. The planned in-service date is 2031.

4. Load Security Need

- A6C/A7C – The TWG has recommended to reduce loading on circuits A6C and A7C by rebuilding Crowland TS as a 230/27.6 kV station supplied from and supplying it from a new 230kV circuit line to meet the load security need.

4.18 North/East of Sudbury

The geographical area of the North/East of Sudbury Region is the area roughly bordered by Moosonee on the North, Hearst on the North-West, Ferris South and Kirkland Lake on the East.

Planning Cycle	Status	Next Steps
Third	Second cycle RIP Completed November 2023	Third Cycle NA expected to be completed in November 2026.

As requested by the IESO, the North/East of Sudbury Needs Assessment was delayed by three months. The OEB was informed of the proposed change, and its concurrence was obtained before the revised schedule was implemented.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Timmins TS x Shiningtree Jct. 115 km 115 kV T61S line overhead conductor replacement and circuit refurbishment (Completed in 2024)
- Kirkland Lake TS X Matachewan Jct. 10km 115 kV K4 line refurbishment (completed in 2024)
- Str. 141 x Kirkland Lake TS 90 km 115 kV A8K/A9K line refurbishment (completed in 2023)
- Kapuskasing area reinforcement – Install 115kV reactive devices (completed in 2023)
- Hanmer TS Northern station replacement (completed in 2022)
- Kapuskasing area reinforcement 115 kV H9K circuit upgrade (completed in 2020)

Needs and plans underway:

1. **Line Capacity Needs**
   The following line supply capacity need was identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:
   - Dymond TS x Kirkland TS 115 kV D3K (80 km)

2. **Station Capacity Needs**
   The following station capacity need was identified in the second RP and will be further reviewed by the TWG in the third RP cycle:
   - Ramore TS

3. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission assets for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken “right sizing” into consideration.

- Kirkland Lake TS – Replacement of Instrument Transformers, P&C equipment, station service equipment and low voltage circuit breakers. The planned in-service date is 2027.
- Hunta SS – Replacement of P&C and telecom equipment. The planned in-service date is 2030.
- Porcupine TS – T8 autotransformer (216/360 MVA) and T3/T4 autotransformer (150/250 MVA) will be replaced with like-for-like units. The planned in-service date is 2026.
- Otto Holden TS – T3/T4 autotransformers (60 MVA) and components will be replaced with upgraded 75/125 MVA units. The planned in-service date is 2028.
- Hearst TS – Replacement of low voltage circuit breakers, switches, P&C Equipment. The planned in-service date is 2030.
- Timmins TS – T2 transformer (50/83 MVA) will be replaced with standard like-for-like units. The planned in-service date is 2035.
- Kapuskasing TS – Replacement of low voltage circuit breakers, switches, station service equipment and protections. The planned in-service date is 2032.
- Dymond TS – Replacement of low voltage breakers, and associated P&C equipment. The planned in-service date is 2034.
- Ansonville TS – Replacement of P&C equipment, Instrument transformers and station service equipment. The planned in-service date is 2027.
- Crystal Falls TS – T5/T6 transformer (42 MVA) will be replaced with like-for-like units. The planned in-service date is 2034.
- Trout Lake TS – T3/T4 transformers (75/125 MVA) will be replaced with like-for-like units. The planned in-service date is 2034.
- K1/K2 - Overhead Conductor replacement and circuit refurbishment between Kirkland Lake TS x American Barrick Jct. The planned in-service date is 2026.
- A4H/A5H – Overhead Conductor replacement and circuit refurbishment between Tunis Jct. x Fournier Jct. The planned in-service date is 2032.
- D2H/D3H – Overhead Conductor replacement and circuit refurbishment between Hunta SS x Abitibi Canyon SS. The planned in-service date is 2031.

4. System Reliability, Operation and Restoration needs

Voltage control needs at following TS were identified and TWG recommends monitoring the voltage performance:

- Dymond TS
- Kirkland TS
- Ansonville, Hunta, Kapuskasing TS

4.19 Renfrew

The Renfrew Region includes all of Renfrew County that is made up of 17 municipalities and City of Pembroke. The rough boundaries of this Region are Ottawa River on the North-East, Algonquin Provincial Park on the West, and Route 508 on the South.

Planning Cycle	Status	Next Steps
Third	NA Completed July 2026	IRRP expected to be completed by March 2028.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- Cheneaux TS – T3/T4 autotransformer and component replacement (completed in 2021)
- Des Joachims – 125 MVA T6 autotransformer replacement (completed in 2026)

Needs and Plans Underway:

1. **Line Capacity Needs**
   The following line supply capacity need was identified in the second RP cycle and will be further reviewed by the TWG in the third RP cycle:
   - Des Joachims TS x Petawawa DS/Forest Lea DS 115 kV D6 line
   - 115 kV X2Y associated with Pembroke TS, Chenaux TS, Cobden TS, Cobden DS, CTS-2, and Bryson CGS in Hydro-Quebec

   The following line capacity plan was recommended by the TWG previously and is underway:
   - Des Joachims TS x Petawawa/Craig DS 115 kV D6 Line refurbishment – The planned in-service date is 2027.

2. **Station Capacity Needs**
   The following station capacity plans were recommended by the TWG previously and are underway:
   - Pembroke TS HVDS – As per the revised LTR of the existing station, this project is no longer required.
   - Forest Lea DS load transfer - The planned in-service date for load transfer from Forest Lea DS to Craig DS is 2026.

   The following station capacity needs were identified and will be further reviewed by the TWG in the third RP cycle:
   - Cobden DS – expected to reach capacity in 2028
   - Cobden TS T1/T2 – expected to reach capacity in 2033

3. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission asset for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.
   - 115 kV D6 line – 76.8 km line between Des Joachims TS and Petawawa/Craig DS will be refurbished. The planned in-service date is 2027.

4. **System Reliability, Operation and Load Restoration Needs**
   - 115 kV D6 Voltage Performance. Voltage issues identified in 2035 for normal summer forecast and in 2031 for High growth summer forecast.
   - 115 kV X2Y Load Restoration. Projected to exceed thermal ratings of X2Y when complete load of Cobden TS needs to be restored under X6 contingency in 2029 under normal growth scenario and 2028 under high growth scenario.

4.20 St. Lawrence

The St. Lawrence Region covers the southeastern part of Ontario bordering the St. Lawrence River. The region starts at Gananoque on the eastern end of Lake Ontario and extends to the inter-provincial boundary with Quebec. The City of Cornwall is supplied by Fortis Ontario with transmission lines from Quebec and is not included in this Region.

Planning Cycle	Status	Next Steps
Third	NA Completed March 2026	IRRP is expected to be completed by October 2027.

The status of the needs and plans recommended in this region are provided below.

Projects Recently Completed:

- St. Lawrence Phase Shifting Transformers – Replaced failed phase shifting transformer PS33 and its companion PSR34. This work was completed in 2023.

Needs and Plans Underway:

1. **Line Capacity Needs**
   - L2M Circuit Reinforcement – The L2M 115 kV circuit is forecast to reach its capacity limits by 2034 under normal growth and by 2031 under high growth, requiring system reinforcement (planned in-service date is TBD).
   - LxH Circuit Capacity Upgrades – Sections of the L20H/L21H/L22H corridor may experience overloads under certain operating conditions and will require further study (planned in-service date is TBD).

2. **Station Capacity Needs**
   - Chesterville TS T1/T2 Capacity Upgrade – Station load is expected to exceed capacity by 2035 under normal growth and by 2033 under high growth, requiring further assessment (planned in-service date is TBD).
   - Brockville TS T1/T2 Capacity Upgrade – High-growth forecasts indicate transformer capacity limits may be exceeded by 2032, requiring a future capacity solution (planned in-service date is TBD).

3. **Asset Renewal for Major HV Transmission Equipment**
   Based on asset condition assessment Hydro One identified the following major HV transmission asset for replacement over the next ten years. The TWG recommendations for asset replacement plans have taken "right sizing" into consideration.
   - St. Lawrence TS – 115 kV Breaker Replacement (planned in-service date is 2034).
   - Brockville TS - T1/T2 transformer replacement with like-for-like units based on asset condition assessments (planned in-service date is 2034).

4. **System Reliability and Restoration Needs**
   - Brockville TS LV Capacitor Bank Installation – New 44 kV capacitor banks will be installed to improve voltage performance and support growing load demand (planned in-service date is 2029).
   - L2M Voltage Performance Improvements – Additional voltage support may be required to address low-voltage conditions under high-growth contingency scenarios (planned in-service date is TBD).
   - L20H/L22H Load Restoration – A potential switching station near Easton Junction is being considered to improve restoration capability following double-circuit outages (planned in-service date is TBD).
   - L2M/L1MB Load Restoration – Future load growth may create restoration concerns following loss of both circuits, requiring further assessment (planned in-service date is TBD).

4.21 North of Moosonee

The lead transmitter for the region is Five Nations Energy Inc. The regional planning status will be provided by the lead transmitter.

5. CONCLUSION

Regional planning continues to play a critical role in ensuring Ontario's electricity system can reliably and economically support ongoing growth, electrification, and evolving customer needs. As the third cycle of regional planning progresses, Hydro One, in collaboration with the IESO and LDCs and with input from municipalities, remains committed to identifying emerging needs early and developing coordinated solutions that support regional and provincial priorities.

The third cycle of regional planning continues to progress successfully. Through the regional planning process, TWG members have continued to identify emerging system needs, evaluate alternatives, and develop coordinated plans to ensure that Ontario's electricity system remains reliable, cost-effective, and capable of supporting future growth. During this reporting period, Hydro One has been able to meet mandatory timelines to complete each of the regional planning phases. Hydro One has also continued to enhance the regional planning process through strengthened municipal engagement, accelerating regional planning due to emerging demands of multiple regions, and participation in OEB initiatives aimed at improving gas-electric coordination and streamlining the regional planning process. Hydro One looks forward to participating in the reconvened RPPAG to support implementation of the OEB's recommendations for strengthening the regional and bulk planning processes.

To summarize, below are significant milestones that have been accomplished in the third cycle to date:

- The third cycle of regional planning was initiated in 2022, and eighteen (18) NA reports have been completed to date (Burlington to Nanticoke, Greater Ottawa, Toronto, Windsor-Essex, GTA North, Kitchener-Waterloo-Cambridge-Guelph, GTA West, Greater Bruce/Huron, East Lake Superior, GTA East, Northwest Ontario, Peterborough to Kingston, Southern Georgian Bay/Muskoka, London, Renfrew, St. Lawrence, and Sudbury/Algoma). The remaining two (2) NA's (North/East of Sudbury and Chatham-Kent/Lambton/Sarnia will be completed by the end of November 2026. Six RIP reports have also been completed (Burlington to Nanticoke, Toronto, Windsor-Essex, GTA North, Greater Ottawa, and Greater Bruce/Huron).
- Actively participating in the IRRP phase as part of the third regional planning cycle for regions where it is active (GTA West, Peterborough to Kingston, London, Northwest Ontario, St. Lawrence, Niagara, Renfrew, South Georgian Bay Muskoka and Sudbury Algoma).
- Hydro One is enhancing coordination with municipal and natural gas planning. Hydro One created a template for municipalities to provide their electricity planning input to LDCs which will inform the LDC's demand forecast. Further, Hydro One has conducted outreach activities and targeted meetings with municipalities to support meaningful participation in the regional planning process and will continue to support future initiatives related to regional planning. Hydro One also met with Enbridge Gas Inc. to continue discussions on meaningful gas-electric coordination, aligned with OEB's objectives for the Gas-Electric Forum.

An important feature of the regional planning process continues to be the transparency and collaboration enabled through TWGs and the publication of planning reports and related information on Hydro One and IESO websites. These activities help stakeholders remain informed of regional electricity needs, recommended plans, and future infrastructure developments that may influence their own planning activities, consistent with the objectives envisioned by the OEB.

From a wires infrastructure perspective, the Regional Infrastructure Plan (RIP) remains the key regional planning deliverable, providing a comprehensive account of identified needs and recommended wires infrastructure plans within a region, including plans developed through earlier phases of the regional planning process. As Ontario's electricity system continues to evolve in response to economic growth, electrification, and increasing customer demand, Hydro One remains committed to continuous improvement of the regional planning process and to working collaboratively with stakeholders to support timely, coordinated, and cost-effective infrastructure development across the province.

6. REFERENCES

[1] Ontario Energy Board "Transmission System Code". Last Revised March 31,2025 (Originally Issued on July 14, 2000).

[2] "Planning Process Working Group Report to the Board – The Process for Regional Infrastructure Planning in Ontario". March 13, 2013. Last Revised May 17, 2013.

[3] Regional Planning Process Advisory Group. "Load Forecast Guideline for Ontario". October 13, 2022.

[4] Regional Planning Process Advisory Group. "Municipal Information Document – Enhanced Coordination between Municipalities and Entities in the Electricity Sector". December 2, 2022.

[5] Ontario Energy Board. "Distribution System Code". Last Revised August 01, 2026 (Originally Issued on July 14, 2000).

[6] Ontario Energy Board. "Conservation and Demand Management Guidelines For Electricity Distributors". Last Revised December 20, 2021.

[7] Independent Electricity System Operator. "Ontario Resource and Transmission Assessment Criteria (ORTAC)". Issue 5.0. August 22, 2007.

[8] Energy for Generations Ontario's Integrated Plan to Power the Strongest Economy in the G7 – June 2025

[9] Ontario Energy Board. "Report to Ministry of Energy and Mines: Review of Ontario's Regional and Bulk Electricity Planning Processes". March 2026

[10] Ontario Energy Board. "Report to the Minister: Gas-Electric Co-ordination Information Sharing". September 29, 2026.

APPENDIX A. CONSERVATION, DISTRIBUTED GENERATION, AND OTHER INITIATIVES

A.1 Conservation Achievement

In March 2019, Independent Electricity System Operator (IESO) received the following two Ministerial directives that include changes to reduce the cost of energy-efficiency program delivery in Ontario. The first directive of March 21, 2019 directed the IESO to centrally deliver energy-efficiency programs in the province by implementing a new Interim Framework to take effect from April 1, 2019, to December 31, 2020. The second, also received March 21, 2019 directed the IESO to discontinue and wind-down the 2015-2020 Conservation First Framework (CFF) and the Industrial Accelerator Programs.

By Ministerial Directives dated June 22, 2020 and June 10, 2021, the 2015-2020 CFF wind-down period was extended until June 30, 2021 and December 31, 2021 respectively to provide IESO the ability to assist entities delivering Conservation and Demand Management (CDM) programs impacted by COVID-19.

On September 30, 2020, the IESO received a Ministerial directive to implement a new 2021-2024 CDM Framework, which follows the conclusion of the 2019-2020 Interim Framework. The new 2021-2024 CDM Framework focuses on cost-effectively meeting the needs of Ontario's electricity system, including by focusing on the achievement of provincial peak demand reductions, as well as targeted approaches to address regional and/or local electricity system needs.

On April 4, 2022, the Minister provided a letter to the IESO in response to the 2022 Annual Acquisition Report (AAR). This letter requested the IESO to develop expedited options for new and expanded CDM programming to help address the system needs identified in the 2021 APO and further discussed in the 2022 AAR. Subsequently, the IESO proposed and received a directive to proceed with four new and expanded programs, which were launched in 2023.

On January 7, 2025, the Ontario government made a $10.9 billion, 12-year funding commitment to the IESO for continued and expanded demand-side management
opportunities for electricity consumers across the province. As part of this, the IESO will prepare and execute three-year electricity demand-side management (eDSM) plans that will establish budgets and demand and energy savings targets by sector.

The program plan for 2025-2027, which is available on the IESO's website, includes a summary of the eDSM programs to be delivered by the IESO under the Save on Energy brand from January 2025 to December 2027. The 2025-2027 plan has a budget of $1.8 billion and is forecasted to achieve 900 MW of peak demand savings, 4.6 TWh of electricity savings by 2027, and is expected to achieve positive cost-benefit benchmarks.

The table below shows the estimated 2025 peak demand offsets resulting from energy efficiency projects reported to occur within the respective regions.

Table 3 - Conservation Status Update

REGION	VERIFIED 2025 PEAK DEMAND SAVINGS (MW)
SOUTH GEORGIAN BAY/MUSKOKA	3.856
BURLINGTON-NANTICOKE	4.56
EAST LAKE SUPERIOR	0.208
GREATER BRUCE HURON	1.524
GTA EAST	2.422
GTA WEST	14.410
GTA NORTH	8.091
KITCHENER-WATERLOO-CAMBRIDGE-GUELPH	5.425
LONDON AREA	2.370
NIAGARA	2.284
NORTH AND EAST OF SUDBURY	0.522
NORTHWEST ONTARIO	0.750
GREATER OTTAWA	6.063
PETERBOROUGH TO KINGSTON	1.523
RENFREW	0.298
TORONTO	19.302
WINDSOR ESSEX	3.665
TOTAL	**77.273**

Note: Results have been mapped to planning region, and more granular results by sub-region and/or TS are not available.

A.2 Distribution Energy Resources

The table below shows the total installed and effective capacity of IESO contracted Distributed Energy Resources (“DER”) projects which have come into service or under development since the base year of the region/sub region i.e., the base year selected for preparing IRRP load forecast. This does not include net or behind the meter generation.

The table also excludes projects that were already in service prior to the base year, except where a new contract was established to account for incremental capacity additions at an existing facility. The data are based on the IESO contract list as of July 31, 2026. The equivalent effective capacity for these new generation sources is based on capacity factors consistent with the zonal assumptions applied in the region/sub region load forecast. Data is based on the IESO contract list as of July 31, 2026.

Table 4 - DER Status Update

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
Burlington to Nanticoke	BRANT TS	0	0	0	2022
	BRANTFORD TS	0	0	0	
	POWERLINE MTS	0	0	0	
	BRONTE TS	0	0	0	
	CUMBERLAND TS	0	0	0	
	BURLINGTON DSN	0	0	0	
	NORFOLK TS (T1/T2)	0	0	0	
	BLOOMSBURG DS (T1/T2)	0	0	0	
	CALEDONIA TS (T1/T2)	0	0	0	
	JARVIS TS (T3/T4)	0	0	0	
	DUNDAS TS (T1/T2)	0.12	0.0682	0.1039	
	NEWTON TS	0	0	0	
	ELGIN TS	0	0	0	
	STIRTON TS	0	0	0	
	GAGE TS (T3/T4)	0	0	0	
	GAGE TS (T5/T6)	0	0	0	
	GAGE TS (T8/T9)	0	0	0	
	BIRMINGHAM DS (T1/T2)	0	0	0	
	BIRMINGHAM TS (T3/T4)	0	0	0	
	KENILWORTH (T1/T4)	0	0	0	
	KENILWORTH TS (T2/T3)	0	0	0	
	BEACH TS	0	0	0	
	LAKETTS	0	0	0	
	WINONA TS	0	0	0	
	HORNING TS	0	0	0	
	MOHAWK TS	0	0	0	
	NEBO TS	0	0	0	
	TOTAL	**0.12**	**0.0682**	**0.1039**	
East Lake Superior	ANDREWS TS	0	0	0	2019
	BATCHAWANA TS	0	0	0	
	CHAPLEAU DS	0	0	0	
	D.A. WATSON TS	0	0	0	
	ECHO RIVER TS	0	0	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	GOULAIS BAY TS	0	0	0	
	MACKAY TS	0	0	0	
	NORTHERN AVE. TS	0	0	0	
	PATRICK ST TS	0	0	0	
	ST MARYS TS	0	0	0	
	TARENTORUS MTS	0	0	0	
	TOTAL	**0**	**0**	**0**	
Greater Bruce Huron	BRUCE HWP B TS	0	0	0	2021
	CENTRALIA TS	0	0	0	
	CONSTANCE DS	0	0	0	
	CUSTOMER CTS	0	0	0	
	DOUGLAS POINT TS	0	0	0	
	FESTIVAL MTS	0	0	0	
	GODERICH TS	37.8	5.27	9.73	
	GRAND BEND EAST DS	0	0	0	
	HANOVER TS	0	0	0	
	OWEN SOUND TS	0	0	0	
	PALMERSTON TS	0	0	0	
	SEAFORTH TS	0	0	0	
	ST MARYS TS	0	0	0	
	STRATFORD TS	0	0	0	
	WINGHAM TS	0	0	0	
	TOTAL	**37.8**	**5.27**	**9.73**	
GTA East	Enfield TS	0	0	0	2016
	Seaton MTS	0	0	0	
	Thornton TS	0	0	0	
	Whitby TS	0.09	0.02	0	
	Wilson TS	13.9	13.59	13.59	
	TOTAL	**13.99**	**13.61**	**13.59**	
GTA West	BRAMALEA TS	85.92	78.03	77.09	2015
	CARDIFF TS	0	0	0	
	CHURCHILL MEADOWS TS	1.63	0.39	0	
	COOKSVILLE TS	0	0	0	
	ERINDALE TS	4.73	1.12	0	
	EVERETT TS	0.35	0.08	0	
	FERGUS TS	1.35	0.32	0	
	GLENORCHY MTS	0.64	0.15	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	GOREWAY TS	6.23	1.48	0	
	HALTON TS	0.78	0.19	0	
	HORNER TS	0.61	0.15	0	
	JIM YARROW MTS	2.94	0.7	0	
	KLEINBURG TS	0.23	0.05	0	
	LORNE PARK TS	0.08	0.02	0	
	MANBY TS	0.17	0.04	0	
	MEADOWVALE TS	0.82	0.19	0	
	OAKVILLE TS	0.89	0.21	0	
	ORANGEVILLE TS	0.31	0.07	0	
	PALERMO TS	0	0	0	
	PLEASANTS TS	11.22	2.66	0	
	RICHVIEW TS	0.85	0.2	0	
	TOMKEN TS	3.6	0.85	0	
	TREMAINE TS	1.03	0.24	0	
	TOTAL	**124.38**	**87.14**	**77.09**	
GTA North	ARMITAGE TS DESN1	0	0	0	2020
	ARMITAGE TS DESN2	0	0	0	
	BROWN HILL TS	0	0	0	
	BUTTONVILLE TS	0	0	0	
	HOLLAND TS	0	0	0	
	KLEINBURG TS	3.233	3.024	3.024	
	MARKHAM MTS #1	0	0	0	
	MARKHAM MTS #2	0	0	0	
	MARKHAM MTS #3	0	0	0	
	MARKHAM MTS #3E	0	0	0	
	MARKHAM MTS #4	0	0	0	
	RICHMOND HILL MTS #1	0	0	0	
	RICHMOND HILL MTS #2	0	0	0	
	VAUGHAN MTS #1	0	0	0	
	VAUGHAN MTS #1E	0	0	0	
	VAUGHAN MTS #2	0	0	0	
	VAUGHAN MTS #3	0	0	0	
	VAUGHAN MTS #4	0	0	0	
	TOTAL	**3.233**	**3.024**	**3.024**	
	ARLEN MTS	0.1	0.024	0	2015

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
Kitchener Waterloo Cambridge Guelph	BRANT TS	0.35	0.083	0	
	CAMBRIDGE	2.509	0.594	0	
	CAMPBELL TS	1.736	0.411	0	
	CEDAR TS	0.234	0.055	0	
	ELMIRA TS	3.15	2.145	1.873	
	DETWEILER TS	0	0	0	
	FERGUS TS	1.043	0.562	0.823	
	GALT TS	2.01	0.476	0	
	HANLON TS	0.25	0.059	0	
	KITCHENER	3.834	0.908	0	
	PARRY SOUND TS	2	1.873	1.873	
	PRESTON TS	1.16	0.275	0	
	PUSLINCH DS	0.13	0.031	0	
	RUSH MTS	0	0	0	
	SCHEIFELE TS	1.777	0.421	0	
	WATERLOO	0.749	0.177	0	
	WOLVERTON DS	0.72	0.17	0	
	TOTAL	**21.752**	**8.263**	**4.569**	
London	AYLMER TS	0	0	0	2017
	BUCHANAN TS	0.5	0.12	0	
	CENTRALIA TS	0.19	0.04	0	
	CLARKE TS	0.65	0.04	0	
	COMMERCE WAY TS	0.25	0.06	0	
	EDGEWARE TS	0	0	0	
	DUART TS	0.49	0.12	0	
	DYMOND TS	1	0.23	0	
	HIGHBURY TS	0	0	0	
	INGERSOLL TS	1.45	0.71	0.49	
	LONGWOOD TS	0.3	0.07	0	
	NELSON TS DESN	17.9	16.74	16.74	
	STRATHROY TS	0.95	0.22	0	
	TALBOT TS DESN	0	0	0	
	TILSONBURG TS	0	0	0	
	WONDERLAND TS	0.73	0.17	0	
	WOODSTOCK TS	1.05	0.25	0	
	TOTAL	**25.46**	**18.81**	**17.72**	
Niagara	ALLANBURG TS	0	0	0	2022
	BEAMSVILLE TS	0	0	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	BUNTING TS	0	0	0	
	CARLTON TS	0	0	0	
	CNPI STATION MTS	0	0	0	
	CROWLAND TS	0	0	0	
	DUNVILLE TS	0	0	0	
	GLENDALE TS	10	5.687	8.662	
	KALAR MTS	0	0	0	
	NIAGARA MURRAY TS	0	0	0	
	NIAGARA ON THE LAKE MTS	0	0	0	
	NIAGARA WEST MTS	0	0	0	
	PORT COLBORNE TS	0	0	0	
	SPRING CREEK MTS	0	0	0	
	STANLEY TS	0	0	0	
	THOROLD TS	0	0	0	
	VANSICKLE TS	0	0	0	
	VINELAND TS	0	0	0	
	TOTAL	**10**	**5.687**	**8.662**	
North/East of Sudbury	CRYSTAL FALLS TS	0	0	0	
	DYMOND TS	0	0	0	
	HEARST TS	0	0	0	
	KAPUSKASING TS	0	0	0	
	KIRKLAND LAKE TS	0.5	0.1359	0.4261	2023
	NORTH BAY TS	0	0	0	
	RAMORE TS	0	0	0	
	TROUT LAKE TS	0	0	0	
	TOTAL	**0.5**	**0.1359**	**0.4261**	
North/West Ontario	AGIMAK DS	0	0	0	
	BARWICK DS	0	0	0	
	BEARDMORE DS	0	0	0	
	BIRCH TS	0.018	0.004	0	
	BURLEIGH DS	0	0	0	
	CAT LAKE MTS	0	0	0	2015
	CLEARWATER BAY DS	0	0	0	
	CRILLY DS	0	0	0	
	CROW RIVER DS	0	0	0	
	DRYDEN TS	0	0	0	
	EAR FALLS TS	0	0	0	
	ETON DS	1.25	0.182	0.869	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	FORT FRANCES MTS	0	0	0	
	FORT WILLIAM TS	0	0	0	
	JELLICO DS	0	0	0	
	KEEWATIN DS	0	0	0	
	KENORA DS	0	0	0	
	KENORA MTS	0	0	0	
	LONGLAC TS	0	0	0	
	MANITOUWADGE DS	0	0	0	
	MANITOUWADGE TS	0	0	0	
	MARATHON DS	0	0	0	
	MARGACH DS	0	0	0	
	MINAKI DS	0	0	0	
	MOOSE LAKE TS	0	0	0	
	MURILLO DS	0.25	0.059	0	
	NESTOR FALLS DS	0	0	0	
	NIPIGON DS	0	0	0	
	PERREAULT FALLS	0	0	0	
	PIC DS	0	0	0	
	PORT ARTHUR TS	0	0	0	
	RED LAKE TS	0	0	0	
	REDROCK DS	0	0	0	
	SAM LAKE DS	0	0	0	
	SAPAWE DS	0	0	0	
	SCHREIBER W/NIPIGON DS	0	0	0	
	SHABAQUA DS	0	0	0	
	SIOUX NARROWS DS	0	0	0	
	SLATE FALLS DS	0	0	0	
	VALORA DS	0	0	0	
	VERMILION DS	3.6	0.526	2.502	
	WHITE DOG DS	0	0	0	
	WHITERIVER DS	0	0	0	
	TOTAL	**5.118**	**0.771**	**3.371**	
Greater Ottawa	ALBION TS	0.5	0.09	0	2015
	ALMONTE TS	4.75	4.45	4.45	
	ARNPRIOR TS	0.57	0.13	0	
	BILBERRY CREEK TS	0	0	0	
	BRIAN COBURN	0	0	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	BRIDLEWOOD MTS	0.5	0.09	0	
	BUS STATION TS	0	0	0	
	CAMBRIAN MTS	0	0	0	
	CARLING TS	0	0	0	
	CENTRE POINT MTS	0	0	0	
	CUMBERLAND DS	0	0	0	
	CYRVILLE MTS	0	0	0	
	ELWOOD MTS	0.25	0.04	0	
	FALLOWFIELD DS	0	0	0	
	GREELY DS	0.97	0.18	0	
	HAWTHORNE TS	0.4	0.14	0	
	HINCHEY TS	27	11.88	11.82	
	KANATA MTS	0.4	0.01	0	
	KINGSVIEW TS	0	0	0	
	LINCOLN HEIGHTS TS	0.15	0.03	0	
	LISGAR	12	5.28	5.26	
	LONGUEUIL	12.5	2.25	0	
	MANOTICKLE MTS	0.25	0.04	0	
	MANOTICK DS	0	0	0	
	MARCHWOOD MTS	0	0	0	
	MARIOVILLE DS	0	0	0	
	MERIVALE MTS	0	0	0	
	MOULTON MTS	0	0	0	
	NATIONAL DS	0	0	0	
	NAVAN DS	0.38	0.07	0	
	NEPEAN E/WORTH MTS	0	0	0	
	NEPEAN TS	0.35	0.06	0	
	NIC CTS	0	0	0	
	ORLEANS TS	0	0	0	
	OVERBROOK TS	0	0	0	
	PICKVILLE TS	0	0	0	
	RICHMOND SOUTH MTS	0	0	0	
	RIVERDALE TS	0	0	0	
	RUSSELL DS	0	0	0	
	RUSSELL TS	0.25	0.04	0	
	SLATER TS	0	0	0	
	SMITH FALLS TS	0.25	0.06	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	SOUTH GLOUCESTER DS	0.05	0.01	0	
	SOUTH MARCH TS	0.85	0.16	0	
	ST ISIDORE TS	0.5	0.29	0.24	
	STEWARTVILLE TS	1.06	0.26	0.05	
	TERRY FOX MTS	0.39	0.07	0	
	UPLANDS MTS	0	0	0	
	VENDOVER	12.5	2.25	0	
	WILHAVEN DS	0.51	0.09	0	
	WOODROFFE TS	0.25	0.04	0	
	TOTAL	**77.67**	**28.01**	**21.82**	
Peterborough to Kingston	ARDOCH DS	0	0	0	2021
	BATTERSEA DS	0	0	0	
	BELLEVILLE TS	0	0	0	
	DOBBIN DS	0	0	0	
	FRONTENAC TS	0	0	0	
	HARROWSMITH DS	0	0	0	
	HAVELOCK TS	0	0	0	
	HINCHINBROOKE DS	0	0	0	
	KINGSTON GARDINER TS	0	0	0	
	LODGEROOM DS	0	0	0	
	NAPANEE TS	0	0	0	
	NORTHBROOK DS	0	0	0	
	OTONABEE TS	0	0	0	
	PICTON TS	0	0	0	
	PORT HOPE TS	4.74	4.439	4.439	
	SHARBOT DS	0	0	0	
	SIDNEY TS	0	0	0	
	TOTAL	**4.74**	**4.439**	**4.439**	
Renfrew	CHALK RIVER CTS	0	0	0	2022
	COBDEN DS	0	0	0	
	COBDEN TS	0	0	0	
	CRAIG DS	0	0	0	
	DEEP RIVER DS	0	0	0	
	DES JOACHIMS DS	0	0	0	
	FOREST LEA DS	0	0	0	
	MAZINAW DS	0	0	0	
	MEGELLAN CTS	0	0	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	MOUNTAIN CHUTE DS	0	0	0	
	PEMBROKE TS	0	0	0	
	PETAWAWA DS	0	0	0	
	TOTAL	**0**	**0**	**0**	
South Georgian Bay/Muskoka	BRACEBRIDGE TS	0	0	0	2020
	BARRIE TS	0	0	0	
	ESSA TS	0	0	0	
	EVERETT TS	0	0	0	
	MIDHURST TS	0	0	0	
	STAYNER TS	0.5	0.12	0	
	TOTAL	**0.5**	**0.12**	**0**	
Toronto	AGINCOURT TS	0	0	0	2019
	BASIN TS	0	0	0	
	BATHURST TS	0	0	0	
	BERMONDSEY TS	0	0	0	
	BRIDGMAN TS	0	0	0	
	CARLAW TS	0	0	0	
	CAVANAGH MTS	0	0	0	
	CECIL TS	0	0	0	
	CHARLES TS	0	0	0	
	COPELAND TS	0	0	0	
	DUFFERIN TS	0	0	0	
	DUPLEX TS	0	0	0	
	ELLESMERE TS	0	0	0	
	ESPLANADE TS	0	0	0	
	FAIRBANK TS	0	0	0	
	FAIRCHILD TS	0	0	0	
	FINCH TS	0	0	0	
	GERRARD TS	0	0	0	
	GLENGROVE TS	0	0	0	
	HORNER TS	0	0	0	
	JOHN TS	3.845	3.596	3.596	
	LEASIDE TS	0	0	0	
	LESLIE TS	0	0	0	
	MAIN TS	0	0	0	
	MALVERN TS	0.5	0.118	0	
	MANBY TS	0	0	0	
	REXDALE TS	0	0	0	
	RICHVIEW TS	0	0	0	

Region/ Sub region	Station	Installed Capacity (MW)	Effective Summer Capacity (MW)	Effective Winter Capacity (MW)	Base Year
	RUNNYMEDE TS	0	0	0	
	SCARBORO TS	0	0	0	
	SHEPPARD TS	0	0	0	
	STRACHAN TS	0	0	0	
	TERAULY TS	0	0	0	
	WARDEN TS	0	0	0	
	WILTSHIRE TS	0	0	0	
	WOODBRIDGE TS	0	0	0	
	TOTAL	**4.345**	**3.715**	**3.596**	
Windsor Essex	BELLE RIVER TS	0	0	0	2022
	CHRYSLER WAP MTS	0	0	0	
	CRAWFORD TS	0	0	0	
	ESSEX TS	0	0	0	
	FORD ANNEX MTS	0	0	0	
	FORD ESSEX CTS	0	0	0	
	FORD WINDSOR MTS	0	0	0	
	GM WINDSOR MTS	0	0	0	
	KEITH TS	0	0	0	
	KINGSVILLE TS	0	0	0	
	LAUZON DESN	0	0	0	
	LEAMINGTON TS	0	0	0	
	MALDEN TS	0	0	0	
	SOUTH MIDDLE ROAD DESN	0	0	0	
	TILBURY WEST DS	0	0	0	
	WALKER MTS	14.25	13.34	13.34	
	WALKER TS	0	0	0	
	CUSTOMER CTS	0	0	0	
	TOTAL	**14.25**	**13.34**	**13.34**	

A.3 Other Initiatives

Other Electricity System Initiatives, as identified by the IESO, include:

Region/ Sub region	Other Electricity System Initiatives
Burlington to Nanticoke	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. The IESO has initiated the Niagara Bulk Plan Study, which will look at supporting demand growth in key areas throughout the Niagara Region. Within the Niagara Bulk Study, the sufficiency of the bulk transmission system between Niagara, Middleport and Hamilton is being studied in the context of current and future economic development and will be coordinated with ongoing regional planning Addendum for Hamilton. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.

Region/ Sub region	Other Electricity System Initiatives
East Lake Superior	The 2026 North of Sudbury Bulk Plan is part of the Regional Planning process and focuses on Northern Ontario-wide needs and the bulk transmission system that serves communities, industries, and resource development opportunities across the region. The study assesses the evolving electricity requirements driven by economic growth, electrification initiatives, critical mineral development, and increasing demand from industrial and resource-sector customers. It establishes a long-term transmission strategy that balances reliability, operability, and system resiliency needs with future development opportunities across Northern Ontario, including the East Lake Superior Region. The plan evaluates the capability of the existing transmission network to accommodate forecasted load growth and emerging generation resources, identifies potential transmission reinforcements and infrastructure investments, and supports the efficient integration of future energy projects. Through a coordinated and region-wide approach, the study aims to ensure that the transmission system continues to provide a reliable, flexible, and cost-effective foundation for supporting economic development, energy security, and electrification objectives across Northern Ontario over the long term. The recommended projects will enhance system reliability and resilience, increase transfer capability, and improve the delivery of electricity throughout the region. They will also support mining expansion, mineral processing operations, new customer connections, and the integration of future generation resources, including renewable and hydroelectric generation. By advancing implementation-ready projects that address near-term reliability requirements and forecast demand growth, while preserving future expansion options for larger developments, the plan aligns investments with demonstrated needs and emerging opportunities. This approach reduces reliance on operational measures, mitigates risks to system reliability, and helps manage costs for ratepayers. Together, these phased investments will provide greater flexibility for future bulk system expansion, support economic development throughout northeastern Ontario, and prepare the region's transmission infrastructure to meet long-term growth and evolving electricity needs. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.
Greater Bruce Huron	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. Specific to the GBH region, this bulk plan has a future consideration for new 500 kV transmission lines from Bruce nuclear generation station to Longwood TS and Essa TS, to be triggered by the Bruce C Project. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.

Region/ Sub region	Other Electricity System Initiatives
GTA East	The 2026 South and Central Bulk Plan focuses on South-Central and GTA-wide needs, as well as the 500 kV and 230 kV backbone of the transmission system, as part of the Regional Planning process. The study assesses the evolving electricity needs of the region, driven by continued population growth, economic development, electrification initiatives, and increasing demand for clean energy resources. It establishes a long-term transmission strategy that balances reliability, operability, and system resiliency requirements with future development opportunities across the Pickering-Ajax-Whitby sub-region (GTA East Region) and the broader South and Central Ontario regions. The plan evaluates the capability of the existing bulk transmission network to accommodate forecasted load growth and emerging generation resources, identifies potential transmission reinforcements and infrastructure investments, and supports the efficient integration of future energy projects. The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. The Toronto Third Line project is also planned to connect within the region but, similar to the bulk recommendations above, will not directly impact regional planning for GTA East. The results of the IRRP will identify independent paths forward for growing the region over the long term. The 2026 South and Central Bulk Plan includes one recommendation that is directly relevant to the broader GTA East area: a new transmission line from Bowmanville to the eastern GTA, identified as an early action to enable new Small Modular Reactors at Darlington Nuclear Generating Station and increase the ability to transfer electricity from eastern Ontario into the GTA. The plan also notes that future phases of bulk planning will assess longer-term transmission requirements associated with potential new nuclear generation at the Wesleyville site near Port Hope. These initiatives are intended to address broader provincial and bulk transmission system needs rather than the localized electricity needs currently being assessed through the GTA East regional planning process. The South and Central Bulk Plan and the Toronto Third Line project provide important system-level context for the GTA East Region by strengthening the provincial transmission network and supporting future supply integration; however, neither initiative is expected to directly address the regional transmission and distribution needs being evaluated through the ongoing GTA East IRRP. The GTA East IRRP will therefore continue to independently assess regional load growth, reliability requirements, and potential wires and non-wires solutions to identify the most appropriate long-term plan for the region. While future bulk system developments may influence system conditions over the longer term, the needs and recommendations arising from the GTA East IRRP are expected to be driven primarily by region-specific planning considerations.

Region/ Sub region	Other Electricity System Initiatives
GTA West	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. Specific to the GTA West region, this bulk plan has recommended new 500/230 kV autotransformers at Milton Switching Station and a new 230 kV Milton TS bus to provide additional supply to the Peel and Halton regions. Additional regional investments to enable the use of this new supply will be identified through the GTA West IRRP. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. The IESO and the Ministry of Energy and Electrification conducted the NWGTA Transmission Corridor Identification Study to identify and protect a corridor of land for future transmission infrastructure. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.

Region/ Sub region	Other Electricity System Initiatives
GTA North	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. The IESO and Ministry of Energy and Electrification are conducting the NWGTA Transmission Corridor Identification Study to identify and protect a corridor of land for future transmission infrastructure. An additional corridor identification initiative is being undertaken by the IESO to identify land which should be preserved for long-term use for transmission corridors. This initiative covers large sections of southern Ontario, including parts of GTA North. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.
KWCG	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. Specific to the KWCG region, this bulk plan has recommended a new 500/230 kV transformer station at Guelph North Junction with separate 500 kV lines to Longwood TS and new Wellington TS. The 3-ended 230 kV double-circuit lines, D6V and D7V, will be sectionalized and re-terminated at Guelph North Station to enable load growth in the region. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.

Region/ Sub region	Other Electricity System Initiatives
London Area	The IESO continued planning for the London region and surrounding area, with a Central-West Bulk Study published in May 2024. Development work for the recommended transmission reinforcements is ongoing. The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. Specific to the London region, this bulk plan has recommended a new 500 kV transmission line from Longwood TS to Guelph North TS, as well as future consideration for a 500/230 kV transformer station at St. Thomas with a 500 kV line to Lakeshore TS. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.
Niagara	The IESO has initiated the Niagara Bulk Plan Study, which will look at supporting demand growth in key areas throughout the Niagara Region. Within the Niagara Bulk Study, the sufficiency of the bulk transmission system between Niagara, Middleport and Hamilton is being studied in the context of current and future economic development and will be coordinated with ongoing regional planning for Niagara. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.

Region/ Sub region	Other Electricity System Initiatives
North East of Sudbury	The 2026 North of Sudbury Bulk Plan is part of the Regional Planning process and focuses on Northern Ontario-wide needs and the 500 kV/230 kV backbone transmission system serving the Northeast planning region. The study establishes a long-term transmission strategy that balances near-term reliability and operability needs with future development opportunities across Northern Ontario. The recommended projects are intended to strengthen the regional transmission backbone by enhancing system reliability and resilience, increasing transfer capability, and improving the efficient delivery of electricity throughout the North of Sudbury region. The plan also supports continued mining and industrial development, mineral processing operations, new customer connections, and the integration of future electricity resources, including renewable and hydroelectric generation, while providing a scalable framework to accommodate long-term economic growth, electrification, and resource development across Northern Ontario. By advancing implementation-ready projects that address near-term reliability requirements and forecast demand growth, while preserving future expansion options for larger developments, the plan aligns investments with demonstrated needs and emerging opportunities. This approach reduces reliance on operational measures, mitigates risks to system reliability, and helps manage costs for ratepayers. Together, these phased investments will provide greater flexibility for future bulk system expansion, support economic development throughout northeastern Ontario, and prepare the region's transmission infrastructure to meet long-term growth and evolving electricity needs. The Northeast Bulk Plan was developed to reliably supply the substantial load growth expected in the areas west of Sudbury to Wawa and north of Sudbury to Timmins, while maintaining the power transfer required to supply the forecasted load in the Northwest and the rest of the Northeast. The projects that were informed by the plan consist of: a new single-circuit 230 kV transmission line between Wawa TS and Porcupine TS ("Wawa-Timmins Power Line"), a new single-circuit 500 kV transmission line between Mississagi TS and Hanmer TS ("Northeast Power Line"), a new double-circuit 230 kV transmission line between Mississagi TS and Third Line TS ("Northshore Link"), and the addition of two new autotransformers at Mississagi TS. The Northern Ontario Voltage Study is highly relevant to the North and East of Sudbury region as it confirms that the transmission reinforcements identified in the Northeast Bulk Plan, including the new Hanmer-Mississagi 500 kV line and the Mississagi-Third Line 230 kV reinforcements, will introduce both high-voltage conditions during light-load periods and voltage stability challenges under peak demand and contingency conditions. The study validates the need for additional reactive power compensation to maintain system performance and compliance with planning criteria. As a result, it recommends the installation of a 120 Mvar line reactor at Mississagi TS, a ±100 Mvar STATCOM at Mississagi TS, and a ±100 Mvar STATCOM at Algoma TS. These facilities are identified as critical to supporting long-term voltage control, system operability, and the successful implementation of the Northeast transmission reinforcements. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can provide value to Ontario's electricity system as demand continues to grow. In the North and East of Sudbury Region, DER opportunities are being considered through the IESO's Second Long-Term (LT2) Request for Proposals (RFP), which is intended to procure new electricity resources to support future system needs. As part of this process, there may be opportunities for solar generation and other DER projects to be developed in northern Ontario, including within the Timmins 115 kV and Kirkland Lake 115 kV areas, subject to the outcome of the procurement process and project-specific assessments. These locally sited resources could help address regional electricity supply needs and support municipal clean energy objectives.

Region/ Sub region	Other Electricity System Initiatives
North West Ontario	The 2026 North of Sudbury Bulk Plan is part of the Regional Planning process and focuses on Northern Ontario-wide needs and the 500 kV/230 kV backbone transmission system serving the Northwest and Northeast planning regions. The study establishes a long-term transmission strategy that balances reliability and operability needs with future development opportunities across Northern Ontario. The recommended projects are intended to strengthen the regional transmission backbone by enhancing system reliability and resilience, increasing transfer capability, and improving the efficient delivery of electricity throughout the Northwest and Northeast regions. The plan also supports continued mining and industrial development, mineral processing operations, new customer connections, and the integration of future electricity resources, including renewable and hydroelectric generation, while providing a scalable framework to accommodate long-term economic growth, electrification, and resource development across Northern Ontario. By advancing implementation-ready projects that address near-term reliability requirements and forecast demand growth, while preserving future expansion options for larger developments, the plan aligns investments with demonstrated needs and emerging opportunities. This approach reduces reliance on operational measures, mitigates risks to system reliability, and helps manage costs for ratepayers. Together, these phased investments will provide greater flexibility for future bulk system expansion, support economic development throughout northeastern Ontario, and prepare the region's transmission infrastructure to meet long-term growth and evolving electricity needs. The IESO completed the Northern Ontario Connection Study (NOCS) and submitted a preliminary report to the Ontario Ministry of Energy and Electrification in December 2024. The study evaluated transmission options to connect remote First Nation communities, including communities represented by the Matawa First Nations, that currently rely on diesel generation, while also supporting critical mineral development in the Ring of Fire region. The study also examined options to improve electricity reliability, enable future mining and economic development, and facilitate the connection of new hydroelectric and renewable energy resources across Northern Ontario. The study concluded that the most feasible transmission option aligns with the Greenstone Transmission Line, which was deemed a priority project by the government. The NOCS presents transmission solutions that were informed by extensive engagement with Indigenous communities. While the study's analysis identifies a transmission option that best meets the criteria assessed, the feedback reflects a desire for the region to ultimately have multiple supply corridors to support community priorities, economic participation, and long-term regional development. The IESO published a System Impact Assessment for Phase 1 and Phase 2 of the Waasigan Transmission Line Project, with expected in-service dates of 2025 and 2026, respectively. The Northern Ontario Voltage Study, which concluded in 2023, identified recommendations for reactive power devices to manage high voltages and support new transmission lines such as the Waasigan Transmission Line and the Northeast Bulk Plan reinforcements. The projects are now in development and include reactors and STATCOM devices at Mississagi TS, Porcupine TS, Algoma TS, Lakehead TS, and Mackenzie TS to manage high voltages. The voltage study supplements the following major changes in Northern Ontario: The East-West Tie expansion, which came into service in 2022, adding two 230 kV circuits between Wawa TS and Lakehead TS. The Lakehead C8 condenser End-of-Life (EOL) replacement. The Waasigan Transmission Project, which will add a double-circuit 230 kV line between Lakehead TS and Mackenzie TS (Phase 1) and a single-circuit 230 kV line between Mackenzie TS and Dryden TS (Phase 2). The Northeast Bulk Plan, which recommended: A new single-circuit 500 kV line between Hanmer TS and Mississagi TS; A double-circuit 230 kV line between Mississagi TS and Third Line TS (targeted to be in service by 2029); and A single-circuit 230 kV line (built to 500 kV standards) between Wawa TS and Porcupine TS (targeted to be in service by 2030). These enhancements ensure reliability across the major supply corridor that connects the Northwest to the transmission grid and will ensure adequate supply capacity for the forecasted growth in the region. The IESO recognizes that distributed energy resources (DERs), such as smaller-scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow.

Region/ Sub region	Other Electricity System Initiatives
	Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and businesses to participate in the electricity system. In the current cycle of electricity planning, the IESO continues to explore potential DER projects in the Township of Hornepayne and the Municipality of Fort Frances.

Region/ Sub region	Other Electricity System Initiatives
Greater Ottawa	The 2026 Eastern Ontario Bulk Plan focuses on Eastern-wide needs and the 500 kV/230 kV backbone of the transmission system as part of the Regional Planning process. The study establishes a long-term transmission strategy that balances reliability and operability needs with future development opportunities across the Ottawa and Eastern Ontario regions. The IESO has completed and published the Eastern Ontario Bulk Plan as part of the Regional Planning process. The study establishes a long-term transmission strategy for Eastern Ontario by balancing near-term reliability and operability needs with future development opportunities across the region. The Bulk Plan recommends electricity infrastructure investments to strengthen the supply to Ottawa over the next 20 years through a staged development approach. It also identifies transmission reinforcements for the Belleville area and assesses opportunities to enhance interconnections with neighboring Quebec and New York. The recommendations are intended to improve transmission capability, support regional reliability, and facilitate the integration of new electricity resources across Eastern Ontario. For Ottawa, the recommended near-term reinforcement plan focuses on addressing existing reliability constraints and accommodating forecast load growth through the early 2030s. The plan includes a new double-circuit 230 kV transmission line between St. Lawrence TS and Merivale TS, upgrades at Hawthorne TS to increase the emergency rating of autotransformer T3 and install a breaker between T1 and T2, and the addition of approximately ±200 Mvar of dynamic reactive power support at Hawthorne TS. To accommodate higher levels of electrification and longer-term demand growth beyond the capability of the near-term reinforcement plan, the Bulk Plan identifies a future reinforcement pathway centered on a new West Ottawa 500/230 kV transformer station. This long-term strategy includes connecting the existing 500 kV network to the new station, constructing a new double-circuit 500 kV transmission line from Lennox TS to West Ottawa TS, adding a new double-circuit 230 kV transmission line from South March SS to the new station, and installing additional reactive power support. These future reinforcements would provide a significant increase in supply capacity to the Ottawa area and would be triggered as regional demand approaches approximately 2,110 MW in summer or 2,300 MW in winter, thereby preserving a scalable pathway for future electrification, economic development, and system expansion. The recommendations of the 2026 Eastern Ontario Bulk Plan complement and build upon the transmission investments identified through the Ottawa Area IRRP. While the Ottawa IRRP focuses on addressing regional needs through new transformation capacity, station upgrades, and local transmission reinforcements, the bulk plan addresses the broader supply limitations associated with the Flow into Ottawa interface and the region's long-term ability to accommodate continued electrification and economic growth. Key implementation-ready investments include a new double-circuit 230 kV transmission line between St. Lawrence TS and Merivale TS, upgrades to the Hawthorne TS autotransformer configuration, and the addition of ±200 Mvar of dynamic reactive power support at Hawthorne TS. Together, these projects strengthen the bulk transmission backbone supplying Ottawa, increase transfer capability into the region, and support the reliable connection of the new stations and load growth identified in the Ottawa IRRP. The bulk plan also establishes a longer-term development pathway to support higher levels of electrification and future demand growth beyond the capabilities of the initial reinforcements. Future consideration projects include a new West Ottawa 500/230 kV transformer station, a new double-circuit 500 kV transmission line from Lennox TS, and a new double-circuit 230 kV connection from South March SS to the new station. These investments would be triggered as Ottawa demand approaches the capability of the Phase 1 reinforcements and are intended to build upon the transmission infrastructure framework being established through the Ottawa IRRP, including the new Kanata North switching station and related network expansions. This coordinated regional and bulk planning approach ensures that near-term investments address immediate reliability and growth needs while preserving a scalable pathway for future transmission development, resource integration, and electrification across the Greater Ottawa Region. In 2019, in consultation with IESO staff, Hydro Ottawa submitted two proposals to Save On Energy's Local Program Fund (the "Fund"), a program application stream which allows LDCs to continue to design and deliver energy efficiency programs that serve the needs of their specific customers. Programs approved through the Fund must demonstrate cost-effectiveness based on the resulting net benefit when comparing the program investment (cost) against the provincial average avoided costs of providing electricity (benefit). While these

Region/ Sub region	Other Electricity System Initiatives
	investments will benefit ratepayer's province-wide, these offerings are also expected to help reduce the reliability risk due to heavily loaded stations in the Kanata-Stittsville area. The IESO approved both of Hydro Ottawa's proposed programs for delivery in 2020, including the Kanata North Retrofit+ Program and the Kanata North Smart Thermostat Program. Both programs leverage the existing delivery infrastructure of current electricity and natural gas province-wide programs, which reduces administrative costs, streamlines customer experiences, and avoids market duplication and confusion. These local programs are an example of using system cost-effective energy efficiency to help address local system needs and can inform similar approaches in the future. It is forecasted that these two initiatives could combine to offset more than 3 MW, or 50% of the near-term peak load growth in the Kanata North area. In doing so, these programs could help address the 60 MW of capacity need in the Kanata-Stittsville region and support reliable supply until a long-term solution for the area is implemented. The IESO has directed increased efforts and investment to the Ottawa area over the past several years to encourage the adoption of energy efficiency processes and technologies in businesses and communities. As part of the 2021-2024 CDM Framework, the IESO was directed to deliver a new competitive program to address regional and/or local system needs. The Local Initiative Program is now one tool that is available to target the delivery of additional CDM savings in specific areas of the province with identified system needs. The IESO is currently working with Hydro Ottawa to develop a Local Initiative Program procurement in order to begin targeting the incremental savings opportunities described above and previously highlighted in the 2020 Ottawa IRRP. As part of the 2021-2024 CDM Framework Mid-Term Review, the IESO is also reviewing new opportunities for CDM to be targeted to address regional or local needs and available tools to do so. As part of this effort, the IESO should continue to explore opportunities to target savings in the Ottawa and Peterborough-to-Quinte regions in order to help address these emerging bulk and regional system needs.

Region/ Sub region	Other Electricity System Initiatives
Peterborough to Kingston	The 2026 Eastern Ontario Bulk Plan, with its final report released in August, is a bulk planning initiative that focuses on Eastern-wide needs and the 500/230 kV backbone of the transmission system. The study establishes a long-term transmission strategy that balances reliability and operability needs with future development opportunities across Eastern Ontario, including the Peterborough to Kingston region. As part of this initiative, the Belleville study focused on assessing the bulk transmission system serving Belleville and the surrounding area to identify the necessary system enhancements to support regional demand growth. The recommended projects will strengthen system reliability and resilience, increase transfer capability, and improve the movement of electricity across Ottawa, Belleville, Napanee, and surrounding areas. These investments will support industrial growth and electrification, enable the connection of future generation resources, including potential new nuclear generation, and create greater flexibility for expanded interconnections and electricity exports to neighboring jurisdictions. By advancing implementation-ready initiatives to address near-term reliability needs and demand growth, while maintaining future project options for confirmed increases in demand, generation development, and policy direction, the plan ensures that investments remain aligned with demonstrated needs. This approach helps avoid unnecessary infrastructure development, manages costs for ratepayers, and preserves flexibility for future system expansion. Collectively, these phased improvements will strengthen Eastern Ontario's bulk transmission system, support economic development, and provide the adaptability required to meet the province's evolving electricity needs. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources in the Peterborough to Kingston region can help support municipal clean energy commitments and address local station and supply concerns.
Renfrew	The 2026 Eastern Ontario Bulk Plan focuses on Eastern-wide needs and the 500 kV/230 kV backbone of the transmission system as part of the Regional Planning process. The study establishes a long-term transmission strategy that balances reliability and operability needs with future development opportunities across the Renfrew and Eastern Ontario regions. Unlike the Ottawa and Belleville areas, the 2026 Eastern Ontario Bulk Plan does not identify any bulk transmission reinforcements specific to the Renfrew region. Instead, the plan notes that future planning activities in the Renfrew area will continue through the regional planning process and that the outcomes of these assessments may help inform future bulk transmission planning activities where broader system needs are identified. As such, the primary mechanism for addressing Renfrew's electricity system needs remains the ongoing regional planning process, beginning with the Scoping Assessment and subsequent IRRP. The bulk plan nevertheless provides important planning context by establishing common assumptions for electricity demand growth, electrification, and resource development across Eastern Ontario and by ensuring coordination between regional and bulk planning activities. Recent regional planning assessments have identified several emerging needs that warrant further evaluation through the upcoming IRRP. These include projected capacity constraints at Cobden TS under high-growth conditions, capacity limitations on the 115 kV D6 and X2Y transmission circuits, voltage performance concerns along the D6 corridor serving communities such as Petawawa, Craig, and Forest Lea, and load restoration challenges associated with the X2Y supply path under contingency conditions. In addition, load growth and electrification sensitivities indicate that several of these needs could emerge earlier under higher-growth scenarios. The next phases of regional planning will evaluate both wires and non-wires alternatives to address these issues and determine the most appropriate long-term solutions for the Renfrew region. Distributed energy resources (DERs), electricity demand-side management (eDSM), and other non-wires alternatives are expected to form part of that assessment. The Renfrew Needs Assessment incorporated forecasts for DERs and eDSM and specifically recommends that future studies evaluate solutions, including non-wires alternatives, for emerging transmission and voltage performance needs on the D6 subsystem. Accordingly, the upcoming IRRP will provide the primary opportunity to assess whether DERs, energy storage, demand-side measures, or traditional transmission investments can cost-effectively address the region's emerging reliability and capacity requirements.

Region/ Sub region	Other Electricity System Initiatives
South Georgian Bay Muskoka	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. A corridor identification initiative is being undertaken by the IESO to identify land which should be preserved for long term use for transmission corridors. This initiative covers large sections of southern Ontario, including sections of the existing/idle transmission corridor between Innpower TS and the Holland Marsh junction, in this area. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.
Toronto	The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system. The IESO is currently setting up a Local Generation program across the province to recontract eligible existing DERs and contract new DERs.

Region/ Sub region	Other Electricity System Initiatives
Windsor Essex	The IESO continued planning for the Windsor-Essex region and surrounding area, with a West of London Bulk Study published in September 2021. Development work for the recommended transmission reinforcements is ongoing. The IESO's Grid Innovation Fund and the OEB's Innovation Sandbox issued a joint call for proposals to support research and demonstration projects that test the capabilities of distributed energy resources. One successful proponent included a proposed local electricity market in the Leamington area, proposed by Essex Powerlines, NODES, Essex Energy Corp., and Utilismart Corp. More information can be found on the IESO website. The IESO continues offering incentives for agricultural loads in the area for LED grow lights and advanced lighting controls, dual and natural exhaust vents, high-efficiency ventilation exhaust fans, recirculation ventilation fans, and photocells and timers for lighting controls. The 2026 South and Central Ontario Bulk Plan forms part of the Regional Planning process and establishes a long-term transmission strategy to support Ontario's growing electricity needs. The recommended projects will enhance transfer capability, strengthen system reliability and resilience, and improve the efficient movement of electricity between regions. These investments will support continued population and economic growth, facilitate electrification, enable the integration of new generation resources, including future nuclear generation, and accommodate expanding residential, commercial, and industrial development. By strategically phasing projects based on demonstrated system needs, the plan aligns infrastructure investments with demand growth, minimizes transmission constraints, and provides the operational flexibility required to maintain a reliable and resilient electricity system. This measured approach also helps manage costs for ratepayers while ensuring that critical infrastructure is delivered when needed. Collectively, these improvements will position Ontario's bulk transmission network to support long-term economic prosperity and meet the province's evolving energy requirements. The IESO recognizes that distributed energy resources (DERs), such as smaller scale, distribution-connected generation, can offer value to our electricity system as Ontario's demand for electricity continues to grow. Locally sited resources can help support municipal clean energy commitments, address local energy supply concerns, and empower more Ontario customers and business to participate in the electricity system.

APPENDIX B. PLANNING STATUS LETTERS

The Transmission System Code (TSC) requires that letters be issued by the transmitter as per Section 3C.2.2 item (h):

> *(h) within 45 days of receipt of a request to do so, provide a letter to a licensed distributor or a licensed transmitter confirming the status of regional planning for a region, including any Regional Infrastructure Plan that is being developed for the region that includes the distributor's licensed service area or within which the requesting transmitter's transmission system is located, suitable for the purpose of supporting an application proposed to be filed with the Board by the distributor or requesting transmitter.*

In compliance with this requirement, Hydro One has provided four (4) Planning Status Letters to the following LDCs since November 2025:

- Canadian Niagara Power Inc. – March 2026
- London Hydro Inc. – May 2026
- Enova Power Corp. – April 2026
- Hydro One Distribution – September 2026