



Town of Essex Council Presentation

February 20, 2024



Our Commitment to Essex County

- At Hydro One, we are committed to keeping the lights on for you and your family
- By investing in the local infrastructure, we will improve power resiliency and reliability for years to come.
- We are here to share details on the work we are doing to strengthen the grid that serves you



Town of Essex – Hydro One Customers

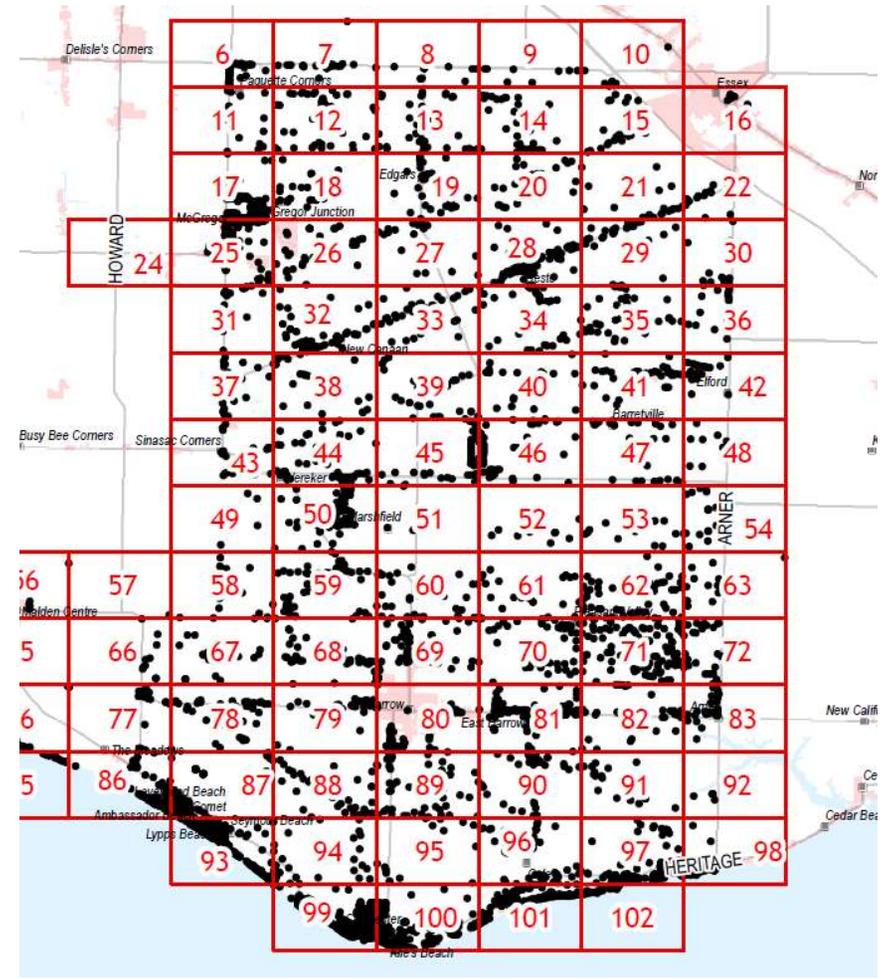


- In addition to our outage records, customer’s diligent reporting has helped to better pin-point area of power interruptions
- We are still seeing numerous momentary interruptions downstream of Harrow:
 - Colchester & Beach areas west of Colchester

The table below captures the Kingsville TS M1 feeder breaker operation count over the past 5 years

2019	2020	2021	2022	2023
23	26	23	15	16

- Customers on the M1 feeder will see more momentary interruptions than listed above due to additional protective devices just before Harrow, after Harrow, before Colchester, and after Colchester. An additional 5-10 momentary interruptions.



2023 Sustained Outages

Significant weather-related outages contributed to poor reliability in 2023.

Without force majeure or loss of supply

Feeder	2019 SAIDI	2020 SAIDI	2021 SAIDI	2022 SAIDI	2023 SAIDI
Kingsville M1	6.7 hrs	4.9 hrs	10.6 hrs	3.7 hrs	24.1 hrs

With force majeure and loss of supply

Feeder	2019 SAIDI	2020 SAIDI	2021 SAIDI	2022 SAIDI	2023 SAIDI
Kingsville M1	6.7 hrs	5.3 hrs	10.8 hrs	11.8 hrs	43 hrs



Continued Investments in Harrow & Colchester

What we've been doing:

- Targeted off-cycle vegetation management
- Patrolled lines every time an outage occurs
- Installed additional recloser just west of Colchester to contain and minimize impact of outages – January 2023
- Installed additional Communicating Fault Circuit Indicators, on Ridge Rd, for increased data recording and visibility of outages on the system – January 2023
- Scheduled infrared line patrol – Spring 2024
 - Repair/replace any defective assets afterwards

Asset maintenance: Hydro One regularly assesses the condition of its distribution assets, plans annual maintenance, and makes repairs as needed.



Continued Investments in Harrow & Colchester

Next Steps:

- Upgrade existing reclosers with remote operable electronic reclosers for improved coordination between devices to minimize momentary interruptions.
- Install additional remote operable electronic reclosers on the Kingsville feeder to further sectionalize and minimize impact of outages.
- Plan a major line investment, in South-West Essex:
 - Build 3km of line to supply customers from an alternate source.
 - Address reliability and increase load capacity.
- Targeted off-cycle vegetation management.
- Continue patrolling lines when outages occur.



Supporting Growth in the Town of Essex

Hydro One has:

- Reviewed the Town's data and incorporated it into our planning for the distribution system.
- Integrated the Town's proposed plans into Hydro One's load projections for the latest Windsor-Essex Regional Planning cycle

What's next:

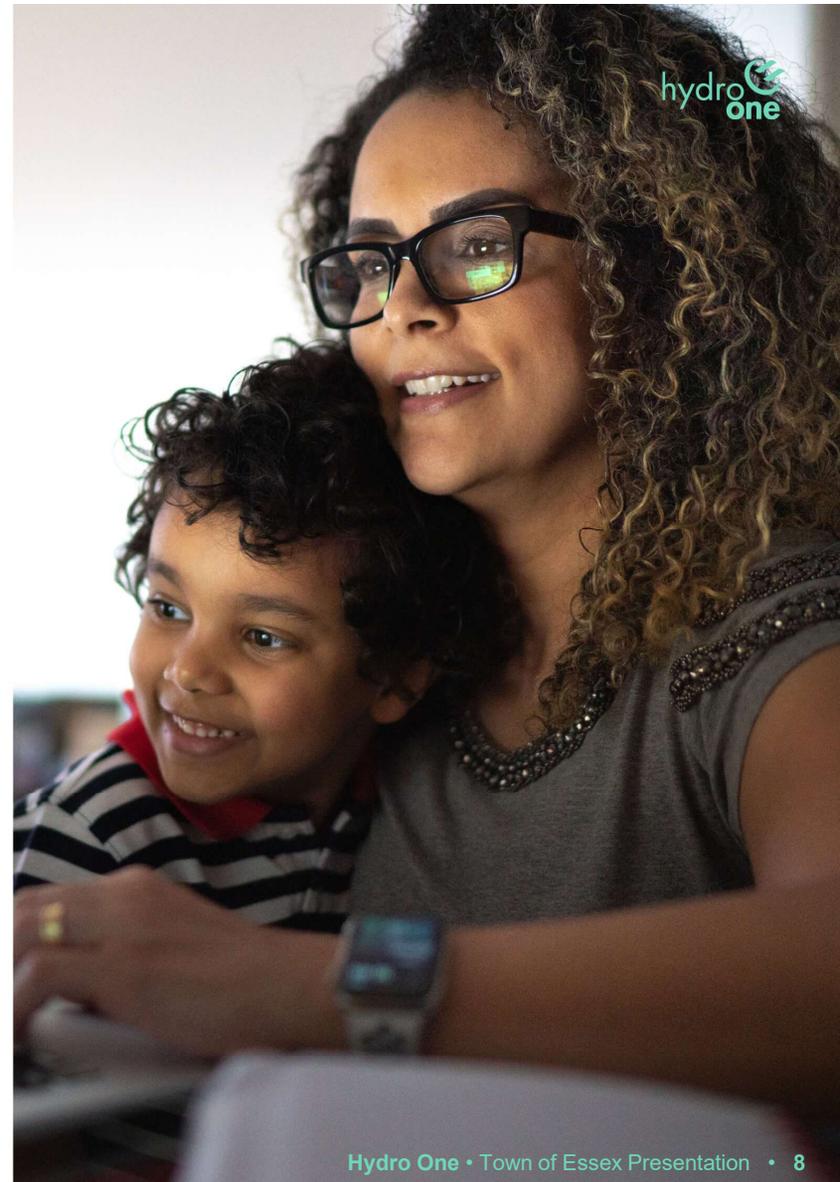
- Regional Planning is now at the Integrated Regional Resource Planning (IRRP) stage, in which the Independent Electricity System Operator (IESO) will announce proposals to rectify transmission needs. Expected in the 2nd half of 2024.
- Hydro One is committed to continuing to work together to support growth in Essex and ensure reliable power.



We encourage customers to contact us

In the event of an outage, we encourage customers to contact Hydro One to report it

- Report online at [HydroOne.com/Outages](https://www.hydroone.com/outages)
- Call us at **1.800.434.1235** anytime day or night



Thank you
We welcome questions

