



**POWER** OF  
**LOCAL HYDRG**



# The Collaborative Future of Energy

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**Electricity Distributors Association**

Friday, November 3, 2023

# Agenda



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1. The EDA:  
Who We Are  
A Closer Look at the  
EDA and its Members

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2. The Power of  
Local Hydro  
Levering the Power of  
Partnership with LDCs

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3. Powering Ontario's  
Energy Transition  
A Critical Role for the  
LDC of the Future

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4. Collaborative  
Success Stories  
Member Case Studies:
    - SSMPUC
    - Alectra Utilities
    - London Hydro
    - Hydro Ottawa

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5. Building on Success:  
The Path Forward  
Lessons Learned and  
Future Collaborative  
Opportunities

# Who Are We

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## Mission

The EDA exists to provide local distribution companies with the valued industry knowledge, networking opportunities and collective action vital to the business success of each member.

## Vision

To shape the future for LDCs to be the premier service providers to Ontarians in the evolving energy system.



# The Power of Local Hydro

EDA members deliver safe, reliable, and affordable electricity across Ontario – at a transformative time.



**Customers trust**  
local hydro



**Customers benefit**  
from less red tape  
in local hydro



**Customers expect**  
innovation from  
local hydro



**Customers know**  
local hydro powers  
the local economy

# The Power of Local Hydro

- 100+ years of grassroots community engagement
- Local hydro utilities are on the front lines of power
- Established relationships with our +5 million customers, including municipalities
- Our Customers are your Constituents. Our members have their fingers on the pulse of what Ontarians want from their electricity system.
- Local hydro utilities are already committed partners in your community that work to attract investment and power economic growth

## EDA MEMBERS:

**\$30 BILLION**  
IN ASSETS

**11,000**  
FULL-TIME JOBS

CONTRIBUTE  
**HUNDREDS OF  
MILLIONS**  
OF DOLLARS TO PUBLIC  
REVENUES EVERY YEAR

UNDERTAKE OVER  
**\$2.4 BILLION**  
IN CAPITAL SPENDING  
ANNUALLY

SERVE **5.4 MILLION**  
ONTARIO CUSTOMERS

# Powering the Energy Transition

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Innovation will increasingly drive the success of the sector and customer value.

EDA Strategic focus:

- Defining a Central role for LDCs in Ontario's Energy Transition.
- Grid Investments to Support the Electrification of Ontario's Economy.
- Modernized Regulatory Pathway to facilitate innovation.

Collaboration between municipalities and local hydro utilities will be imperative to support Ontario's Energy Transition.



## *SAULT STE. MARIE*

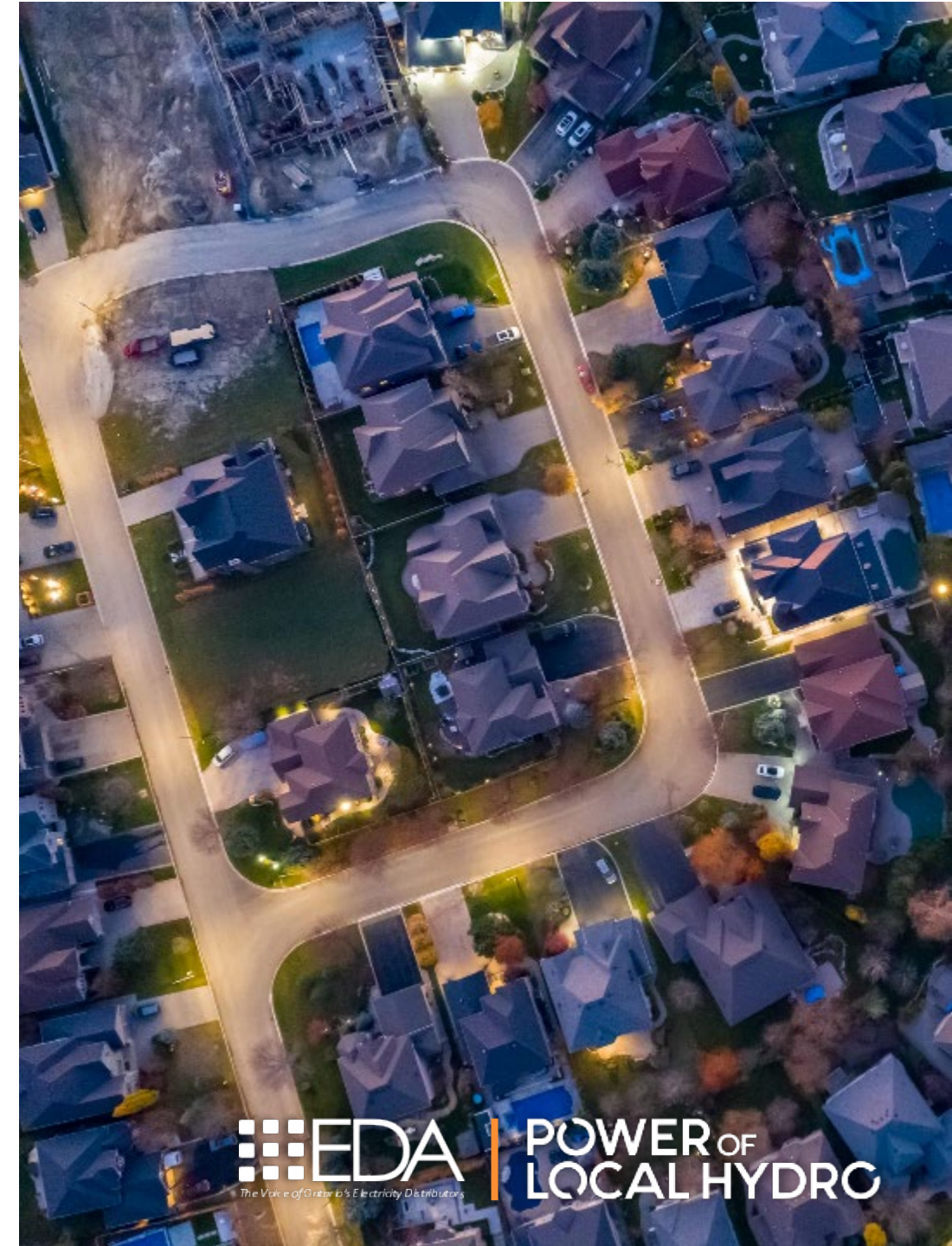
### Smart Grid & Electrification of Algoma Steel

- Canada's 1<sup>st</sup> Community-Wide Smart Grid reduces outages, costs, and GHG emissions.
- Supporting Electrification of Algoma Steel Arc Furnaces – 70% reduction in GHG.
- PUC Transmission will help meet the community's needs and accommodate new opportunities for growth and diversification while lowering GHG emissions.



Non-Wires Alternatives Demonstration Project

- North America's 1<sup>st</sup> distribution-level local electricity market.
- Peak Demand Activation - 1<sup>st</sup> time that DERs secured through a local capacity auction used to alleviate local peak demand
- York Region municipalities, including Vaughan, Markham and Richmond Hill







## LONDON

### Rapid Transit Line DT London to Highway 401

- Close working relationship between London Hydro and the City of London.
- Tasked with relocating infrastructure and completing capital renewal and system enhancement projects.
- London Hydro leveraged internal resources and external consultants to meet the city's schedule.



Building a Sustainable & Reliable Energy Future

- Portage Power, Hydro Ottawa's renewable energy affiliate, operates 131 MW of generation capacity, making it Ontario's largest municipally-owned producer of clean electricity.
- Lead role in transitioning Ottawa's diesel public transit fleet to non-emitting electric buses.
- An exceptional restoration effort following both the May 2022 derecho storm and April 2023 ice storm.



# Building on Success: The Path Forward

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- **Connect with your LDC – Our Customers are Your Constituents.** Maintain regular dialogue with your LDC and reap the benefits.
- **Leverage the Power of Local Hydro –** Your local utility is a committed partner in building future municipal infrastructure. Utilize the knowledge of your local utility.
- **Knowledge is Power –** Learn more about Ontario's energy sector. The EDA provides critical information through our research, submissions, professional development and networking opportunities.
- **Empower Your Community –** Collaborate with your LDC and help drive Ontario's energy transition.

# EDA Thought Leadership



Energy and Electrification Panel Submission (pictured)

Power to Connect – Ontario’s Energy Transformation Journey

- Advancing Customer -Driven Electricity Solutions for Ontario
- A Roadmap to a Brighter Ontario
- Supporting Changing Customer Needs

Net Zero – The Power of Sustainability

- The Power of Sustainability

Connecting Devices – Distributed Energy Resources (DER)

- A Best Practice Guide for Standardized Distributed Energy Resource Connections Version 1.0
- A Best Practice Guide for Standardized Distributed Energy Resource Connections Version 2.0

Charging Ahead – Electrification

- Electricity Distributors Association Position Paper on Electrified Transportation
- The Local Distribution Company Role in Electric Vehicle Charging & Electrification Development

# EDA Events

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## 2024

- January 16 – 18 EDIST 2024 Conference & Exhibition  
(Electricity, Distribution, Information Systems and Technology)
- March 25 ENERCOM Conference
- March 25 EDA Awards Gala
- October 7 – 9 2024 CUEE  
(Canadian Utility Engineering and Equipment Trade Show)

## 2025

- January 14 – 16 EDIST 2025 Conference & Exhibition  
(Electricity, Distribution, Information Systems and Technology)



# Questions?

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