Atura Power

Ontario's Leader in Clean Hydrogen Development

Christopher Penny Manager, Hydrogen Projects





Agenda

- Atura Power an Overview
- Ontario Electricity Sector
- Low-Carbon Hydrogen Strategy
- Niagara Hydrogen Centre





Atura Power – an Overview

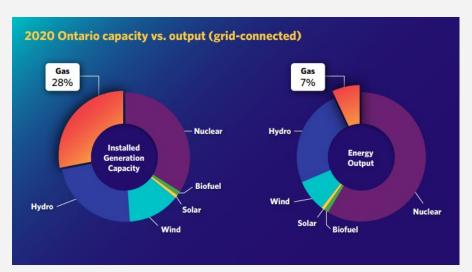
- Vision: Enabling Ontario's clean energy future with reliable, lowcost power
- Four (4) generating stations in Ontario
- Total installed capacity > 2700 MW
- 100% Ontario-owned
- Flexibly dispatched to support intermittent generating sources
- Fleet dispatch strategy avoided 30,000 tonnes of CO₂ in 2021

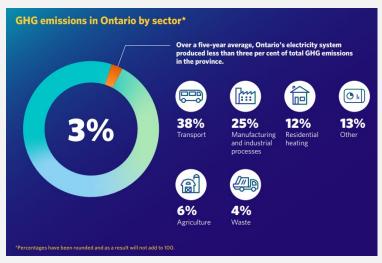






Ontario Electricity Sector





Source: IESO Decarbonization and Ontario's Electricity System, dd October 7, 2021

- First jurisdiction in North America to completely phase out coal-fired generation in 2014
- Hydropower contributed 26% of output (38.0 TWh) in 2022 while representing 23% of grid-connected capacity

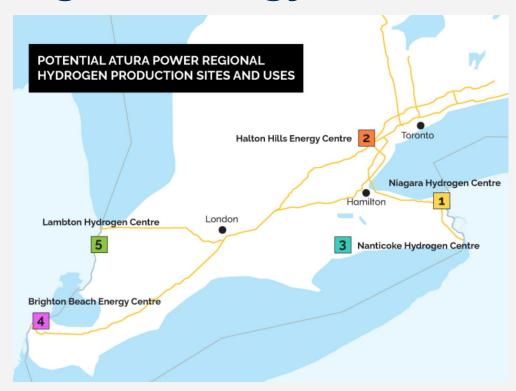






Low-Carbon Hydrogen Strategy

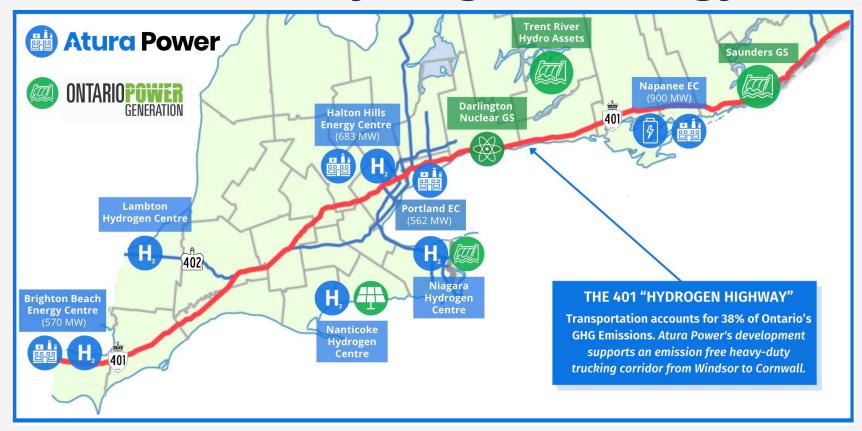
- Leverage access to low-carbon electricity grid through existing infrastructure
- Low-carbon electricity with commercially demonstrated electrolysis technology to produce clean hydrogen
- Vertically integrated electricity to
 H2 production to H2 consumption
- Industry catalyst reduce carbon emissions in heavy emitting sectors







Low-Carbon Hydrogen Strategy







Niagara Hydrogen Centre

- First Action in Ontario's Low Carbon Hydrogen Strategy
- Ontario's largest electrolysis produced hydrogen facility
- Carbon Intensity of ~9g CO₂ per kg of hydrogen; validated through OpenLCA











Atura Power

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https://aturapower.com/about-hydrogen/

to learn more





