



Ontario's Support for Clean Technology Companies

December 8, 2017

Presentation at *Hydrogen on the Move*

Ontario Investment Office

The Ontario Investment Office (OIO) is the face of international investment and domestic business growth for the province.



[Allan O'Dette](#)

Chief Investment Officer of the Ontario Investment Office



[Clare Barnett](#)

Vice President of Investment Growth



[Trevor Dauphinee](#)

Vice President of Strategic Accounts

Ana Maria Suknovic
Senior Business Development Advisor



CONFIDENTIAL ADVICE

Sector Overview

Ontario has 5,000 cleantech companies, employing 130,000 people

- Revenues of **\$19.8B** and Exports of **\$1B**
- Growing at approximately 11% per year
- 35% of Canada's cleantech companies are located in Ontario

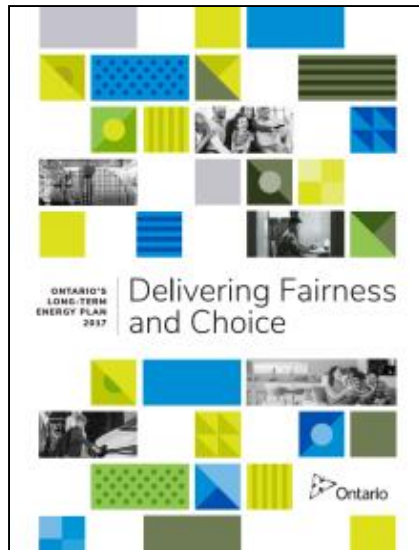
Subsectors of Ontario's cleantech sector include:

- Energy Generation and Storage
- Energy Infrastructure
- Transportation
- Bio-Products and Bio-Chemicals
- Emissions, Recycling and Remediation
- Water and Wastewater
- Agri-Technology and Sustainable Resources
- Supporting Services

The majority of the companies are small with a few globally recognized multinationals, including:



New Policies are Creating a Market for Cleantech



ONTARIO'S CLIMATE CHANGE MITIGATION AND LOW CARBON ECONOMY ACT WILL:

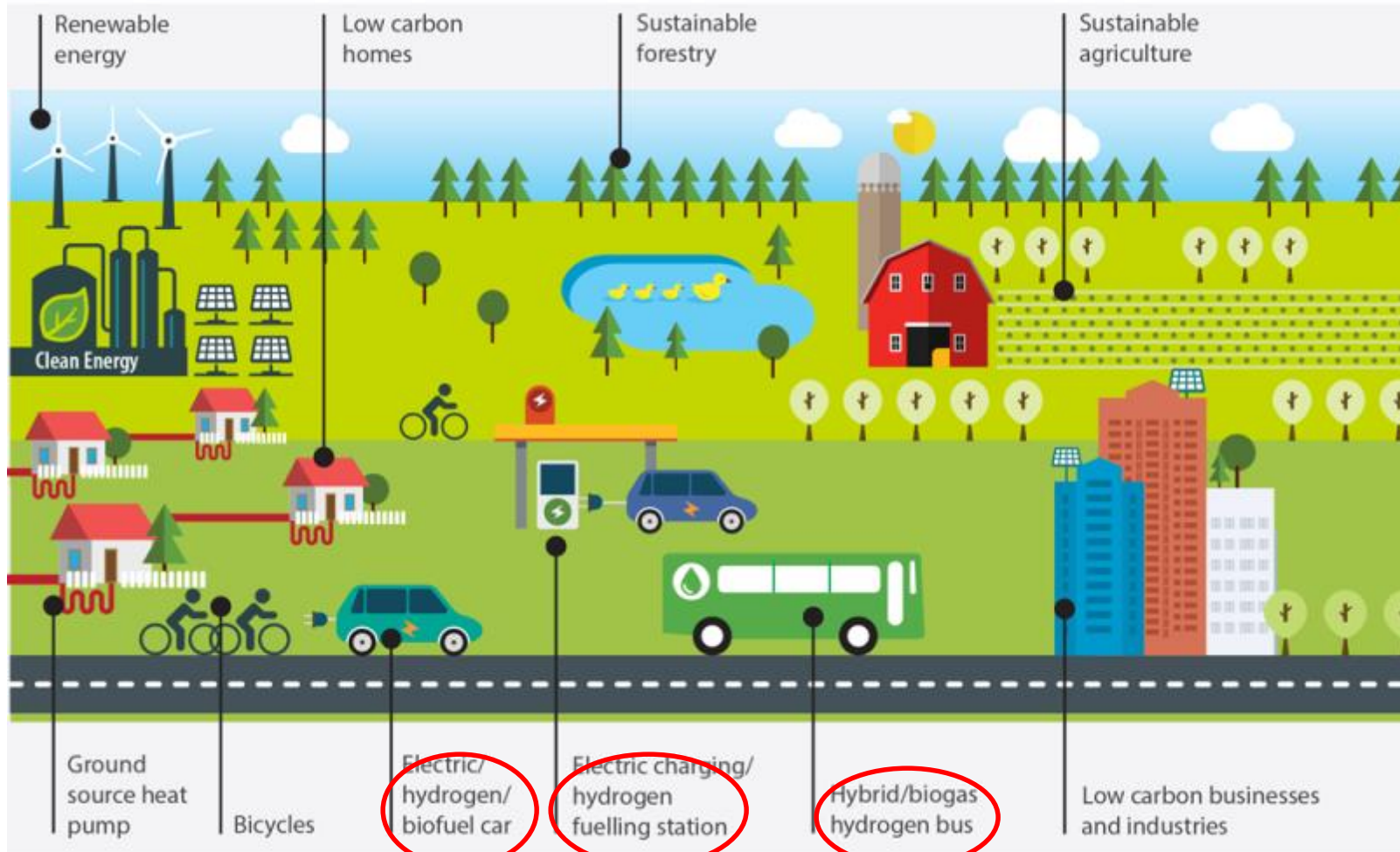


- Lay the foundation for Ontario to join the largest carbon market in North America
- Ensure cap and trade proceeds are used to reduce greenhouse gas pollution
- Require annual public reporting for transparency and accountability

#ONclimate

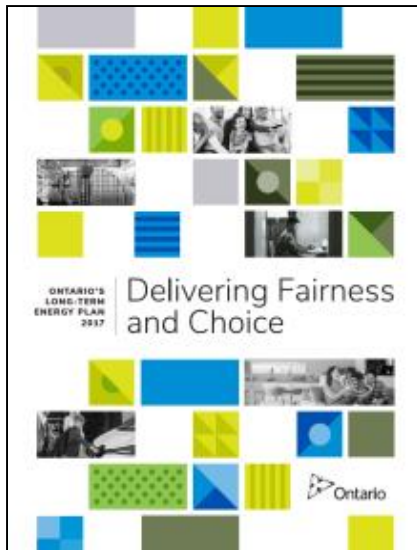
Ontario

2050 Low Carbon Vision for Ontario



CONFIDENTIAL ADVICE

New Policies are Creating a Market for Cleantech



ONTARIO'S CLIMATE CHANGE MITIGATION AND LOW CARBON ECONOMY ACT WILL:



- Lay the foundation for Ontario to join the largest carbon market in North America
- Ensure cap and trade proceeds are used to reduce greenhouse gas pollution
- Require annual public reporting for transparency and accountability

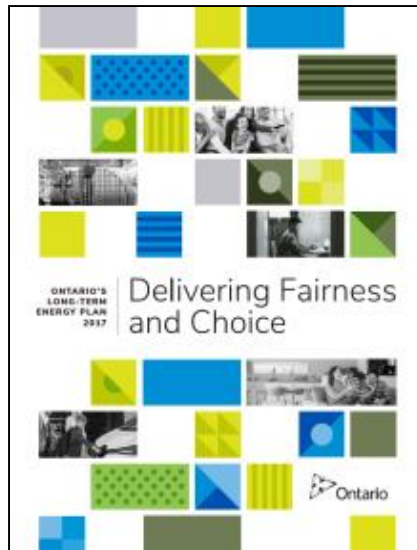
#ONclimate

Ontario

2017 Long Term Energy Plan: Hydrogen

- Recognizes Power-to-gas as a mechanism to link the electricity system to natural gas grid
- Feasibility study of using hydrogen to fuel GO Transit Passenger Trains
- “The government will work with the IESO to evaluate the development of a pilot project that explores the energy system benefits and GHG emission reductions from the use of electricity to create hydrogen”.
- “...renew and enhance the Smart Grid Fund”
- “The government intends to fund international demonstration projects to help Ontario’s innovative energy companies diversify to foreign markets”
- “Barriers to the deployment of cost-effective energy storage will be reduced”

New Policies are Creating a Market for Cleantech



ONTARIO'S CLIMATE CHANGE MITIGATION AND LOW CARBON ECONOMY ACT WILL:



- Lay the foundation for Ontario to join the largest carbon market in North America
- Ensure cap and trade proceeds are used to reduce greenhouse gas pollution
- Require annual public reporting for transparency and accountability

#ONclimate

Ontario

Low Carbon Innovation Fund

1. The Technology Validation stream

- Will provide up to 75% of a project's expenses to eligible Ontario companies (per project), and
- Up to 95% to eligible academic organizations (per project) to fund proof-of-concept and prototyping projects.
- The maximum contribution from the Province is \$5 million.
- *Eligibility Assessment open until 11:59pm Dec 10*

2. The Technology Demonstration stream

- Will give up to 50%, or a maximum of \$2 million, to support the development and commercialization of innovative low carbon technologies in a real world demonstration project.
- *This stream is closed for applications in 2017-18*



Ontario's Centres of Excellence: TargetGHG

Stream 1

TargetGHG Industrial Demonstration Program

- Industrial Point Source: Technologies that reduce GHG emissions through more sustainable approaches at industrial production sites.
- Value Chain: Technologies that reduce GHG emissions through more sustainable approaches through the industrial value chain.
- CO₂ Innovations: Technologies that involve new and innovative uses of CO₂.

Stream 2

TargetGHG Collaborative R&D Program

- Supports industry-academic collaborative research and development projects. The projects will address Ontario's 2020-2030 targets for GHG emission reduction and provide significant economic benefits to Ontario (jobs, revenues, etc.)

TargetGHG Collaborative Technology Development Program

- Supports Ontario-based SMEs to develop and demonstrate new and innovative technologies that have strong potential to result in significant, verifiable and sustainable GHG emissions reductions in Ontario, Canada and globally.

These programs are currently not accepting applications

Economic Growth Funding Programs

Jobs and Prosperity Fund: New Economy Stream

- Investments over \$10M
- Historically a grant/loan of about 5-15% of eligible project costs
- Projects must:
 - Build innovation capacity
 - Improve productivity, performance and competitiveness
 - Expand export and trade opportunities
 - Increase job creation capacity

Regional Funds: Southwestern/Eastern Ontario Development Fund

- Eastern Ontario Development Fund
 - Investments of a minimum \$500k, creation of 10+ jobs
 - A maximum grant of \$1.5M, up to 20% of eligible costs

Contact

Lora Field, PhD

Team Leader

Ontario Investment Office

416-452-6887

Lora.Field@ontario.ca

Ana Maria Suknovic

Senior Business Development Advisor

Ontario Investment Office

647-242-4694

AnaMaria.Suknovic@ontario.ca