



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Canada Update

44th IPHE Steering Committee Meeting
24 – 25 November 2025
Riyadh, Kingdom of Saudi Arabia

Announcements / New Initiatives *Canada*

Hydrogen Hubs

- Launch of Calgary Regional Hydrogen Hub
- **Pan-Canadian Hydrogen Hubs Alliance** formed to advance hydrogen market, promote workforce training
- Advancing strategic hubs along Atlantic and Pacific coasts

Hydrogen Hubs in Canada



Policies

Retroactive eligibility for methane pyrolysis equipment under **Clean Hydrogen Investment Tax Credit**

Climate Competitiveness Strategy*—recognizes imperative to transition to clean energy and includes proposals for strengthened industrial carbon pricing

Productivity Super-Deduction*—attracting investment through enhanced tax incentives covering new capital investments (clean energy generation & zero emission vehicles)

Major Projects Office and commitment to streamlined permitting

Key Collaborations

- Newfoundland and Labrador MOU with Port of Amsterdam
- Port to Port collaboration—Belledune and Antwerp-Bruges
- MOU between Canadian Hydrogen Association and Italian Hydrogen Association



Announcements / New Initiatives *Canada*

Research & Development, Demonstration and/or Deployment Activities

Deploying Hydrogen Transportation & Refueling

Pan-Canadian deployments of hydrogen transportation technologies, including:



Duel-fuel bus demonstration in Halifax, Nova Scotia



Pilot project for hydrogen refueling and dispatch in Prince Rupert, British Columbia



Launch of mobile hydrogen fueling station in Calgary, Alberta



Fuel cell truck demonstration by major grocer in British Columbia

Advancing hydrogen technologies

Canadian firms are progressing development of:



Anion exchange membrane electrolyzer



Hydrogen on-demand technology using dry pellets



Hydrogen generators



Modular, decentralized ammonia production systems



Hydrogen peaker plants

Progressing natural hydrogen exploration



First drilling license for natural hydrogen in Saskatchewan

Supporting the Hydrogen Workforce








Province of Newfoundland supporting **Accelerating Clean Growth** program to prepare workforce for clean energy industry



Canada – Profile November 2025

Status of Deployments

-  **NEW commercial-scale electrolyzer** & liquid hydrogen gasification system in BC (1.8 TPD of H₂)
-  Canada's **low-carbon production capacity** has reached roughly 12,000 TPA
-  Legacy hydrogen production **decarbonizing through adoption of CCS** (producers representing ~951kTPA adopting or planning to adopt CCS)
-  Projects continue to advance—active projects represent **4MPTA of low-carbon production potential**
-  Zero emission buses continue to expand—4,031 ZEBs as of July 2025, including **hydrogen demonstrations across Canada**

Leading Government Initiatives

Building the **foundation for hydrogen economy** and **supporting project development**:

- ✓ Expansion of the Clean Hydrogen ITC
- ✓ Enhanced tax incentives for capital investments
- ✓ Strategic and coordinated financing framework for major projects
- ✓ Emphasis on regulatory efficiencies—principle of “one project, one review”
- ✓ Increased capital envelope for Canada Infrastructure Bank
- ✓ Biofuels Production Incentive—\$372M (USD264) over two years to support production of biodiesel and renewable diesel

Goals or Focus Areas

-  Supporting low-carbon production
-  Targeting demand growth in strategic sectors
-  Continuing to lay the foundation for international trade through multi- and bi-lateral engagement

Thank you



International Partnership
for Hydrogen and Fuel Cells
in the Economy