



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Canada Update

39th IPHE Steering Committee Meeting

25 – 27 April 2023

Pretoria, South Africa

Announcements / New Initiatives Canada

Policy & Funding Developments

- **Investment Tax Credits**
 - Clean Hydrogen—15% to 40% depending on lifecycle carbon intensity and meeting certain labour requirements
 - **Status:** Applications to open later this year
 - Carbon capture, use and sequestration
 - Clean Electricity and Clean Technology—separate tax credits to support development of renewables
 - Clean Technology Manufacturing—applies to equipment used to produce hydrogen from electrolysis
- **Canada Growth Fund**—\$15B to incentivize private sector investments (consulting on contracts for difference)
- **Canada Infrastructure Bank**—\$10B for Green Infrastructure, which includes hydrogen, and \$10B for Clean Power
- **Regional Energy Resource Tables**—Advancing opportunities for low-carbon future across Canada's region through federal and provincial/territorial collaboration
- **Upcoming: Biennial Report on the Hydrogen Strategy for Canada**

Project Development *Canada*

Evolving Project Landscape

New projects being announced and at various stages of development—domestic use projects and more than 10 large-scale projects with potential for export

Strong interest in hydrogen economy—
Newfoundland received 19 bids for companies interested in pursuing wind-to-hydrogen projects

Clean Fuels Projects projects—up to \$800M for approximately 60 projects, including several hydrogen production projects and FEED/feasibility studies

Initiative—Streamlining regulatory assessment processes

Electrolysis Project Updates

Air Liquide—20MW electrolyzer now operating in Quebec

EverWind—Provincial EA approval granted for 300MW in Nova Scotia; plans for expansion

BearHead—Provincial EA approval granted for 500MW in Nova Scotia; expansion to 2GW

Natural Gas Reforming Project Updates






Heartland Ammonia Project—MOU signed to explore ammonia production in Alberta

Hazer/Fortis/Suncor—pilot using methane pyrolysis technology in British Columbia

Air Products—developing Net-Zero energy hydrogen production facility using CCUS in Alberta

Canada – Profile April 2023

Status of Deployments

-  250 FCEVs
-  7 operating & 14 announced hydrogen refuelling stations
-  Several blending pilots and studies underway
-  7 hubs formed/forming
-  At least 2 electricity generation projects

Provincial Strategies

- British Columbia
- Alberta
- Quebec
- Ontario
- Under Development:
- New Brunswick

Provincial Developments

- Nova Scotia—Legislative changes for hydrogen & offshore wind target
- Newfoundland—Fiscal framework & onshore wind Crown land bids
- British Columbia—Hydrogen Office
- Alberta—Hydrogen Centre of Excellence & Innovation Accelerator

Key Bilateral Collaborations

- Canada-Germany Alliance
- EU High-Level Energy Dialogue
- Canada-US MOU on Clean Energy
- Canada-Japan Economic and Policy Dialogue
- Canada-Taiwan Economic Consultations
- Hydrogen Cooperation MOU with the Netherlands

Thank you



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