

Future Energy Solutions Conference September 8-.9.2026

CLEAN ENERGY FROM CANADA

Patrick Hébert
Canada's Ambassador to Finland

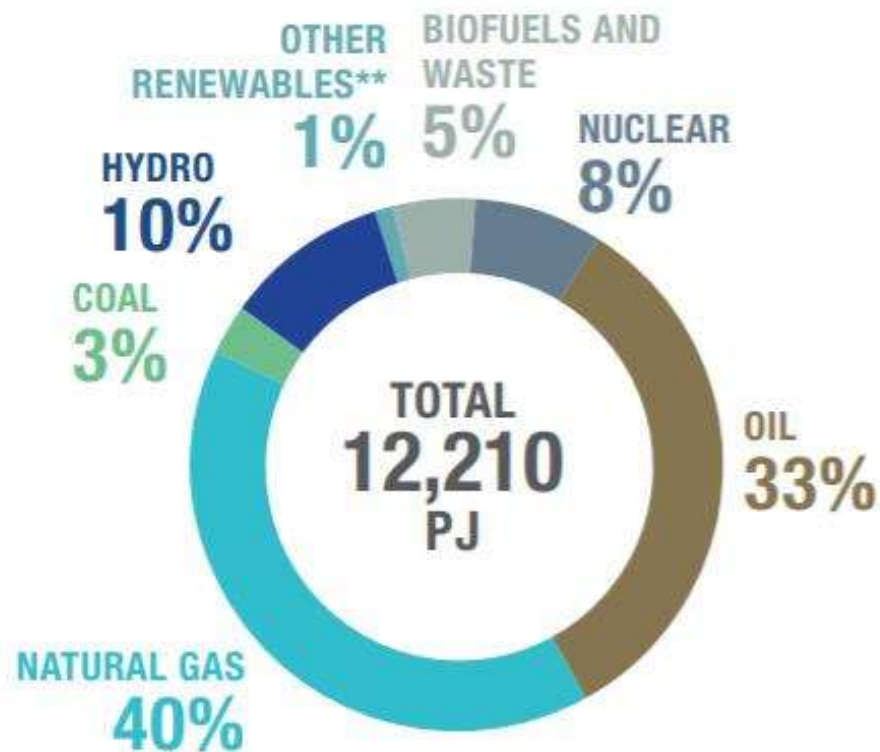
Do business
with Canada

Faites affaire
avec le Canada

CANADA

Canada's Energy Mix

Canada's total energy supply by source (2023)



Total Energy Supply (TES) in Canada 2025

- 75% Fossil fuels
- 17% Renewable energy sources
- 8% Nuclear



Energy Trade

Energy exports

\$197.8 billion
representing

27%

of total Canadian
goods exports



Oil and gas domestic
exports totalled

\$182 billion

of which

89% were to the U.S.

exported energy
products to



137
countries

The U.S. accounts for



85%
of energy exports
by value
(\$168.9 billion)

Energy imports

\$54.4 billion
representing

7%

of total Canadian
goods imports



imported energy
products from



119
countries

The U.S. accounts for



79%
of energy imports
by value
(\$43 billion)



GHG Emissions are Deacreasing

Between 2000 and 2023,
Canada's GHG emissions
decreased by

7%

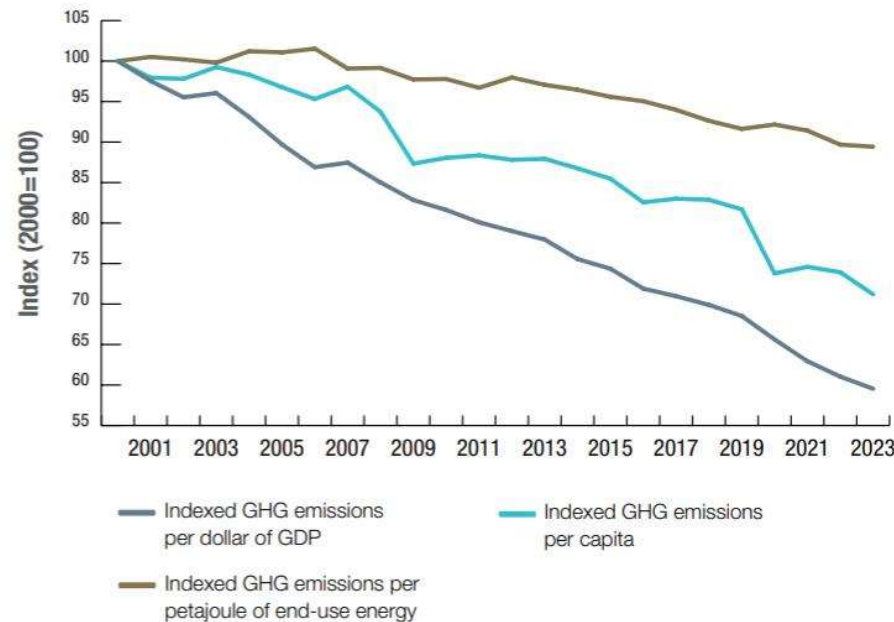
while GDP increased

56%

GHG emissions decreased

39%
per dollar of GDP and
26.1%
per capita.

**INDEXED TREND IN GHG EMISSIONS PER PERSON, PER UNIT OF
GDP AND PER UNIT OF ENERGY CONSUMED, 2000–2023**

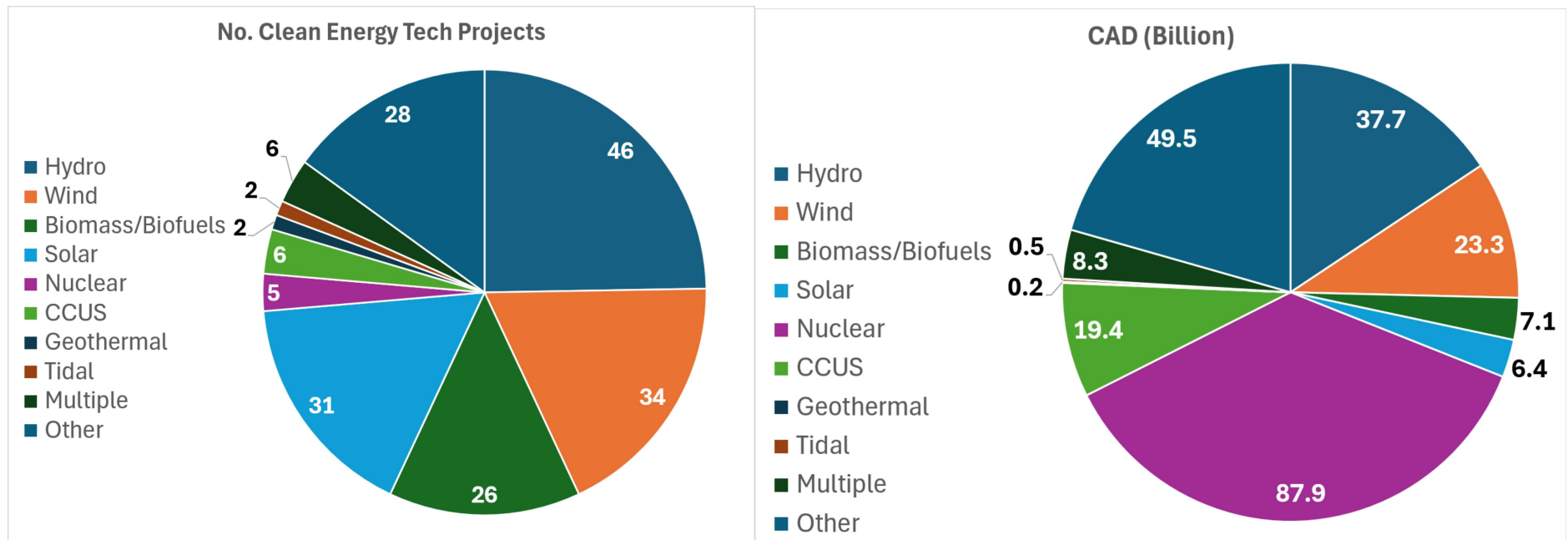


81% of emissions come
from energy.

Canadians use more
energy due to our extreme
Temperatures, vast
landscape and dispersed
population.



Canadian Clean Energy Projects

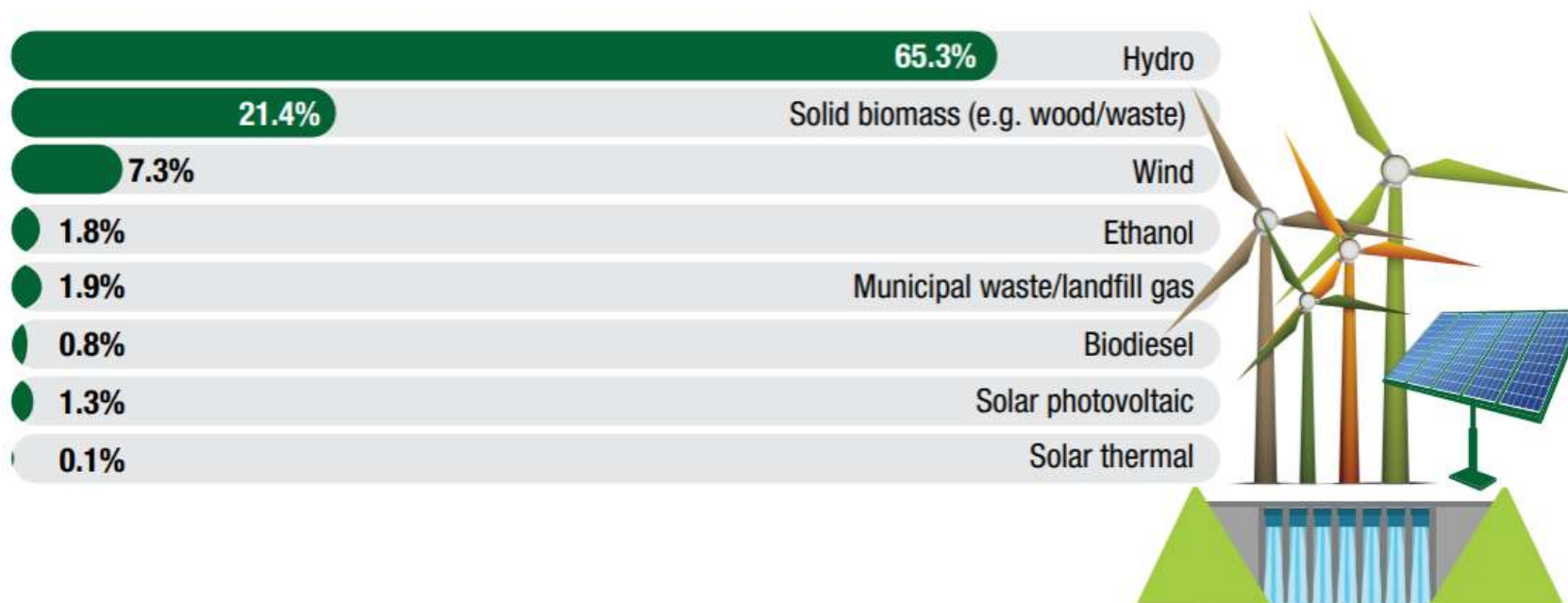


*Multiple – includes multi-phased projects consisting of hydro and solar sites

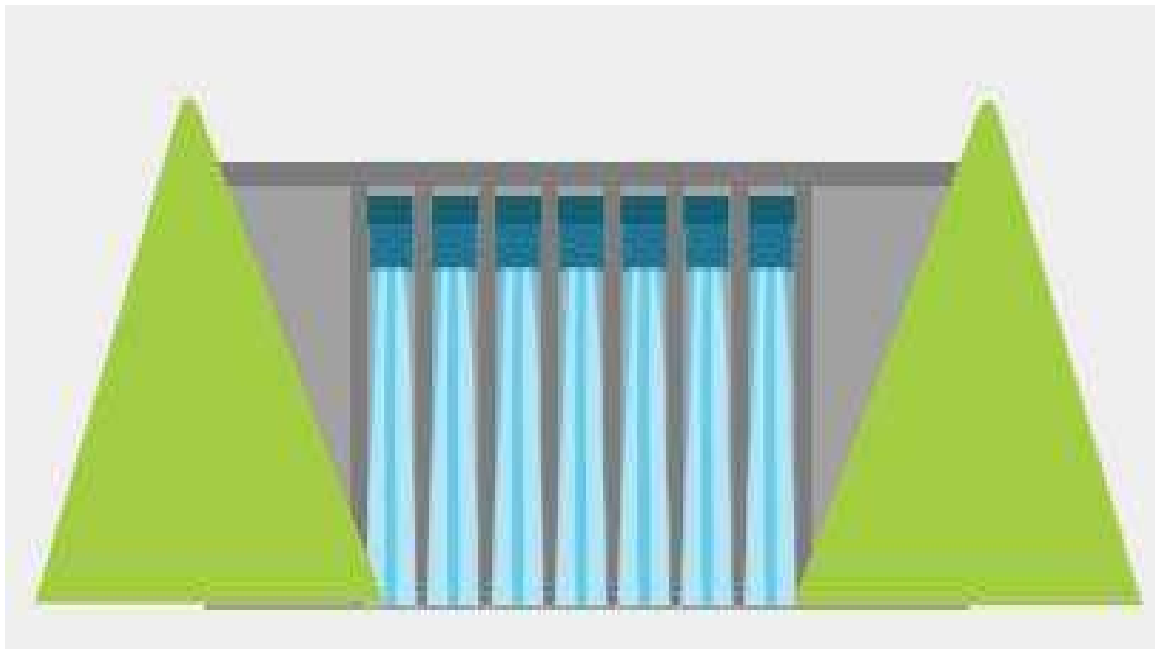
**Other – includes initiatives for hydrogen production, battery storage, and industrial decarbonisation

Renewable Energy

Total renewable energy* – 1,987 PJ or 47.5 MTOE

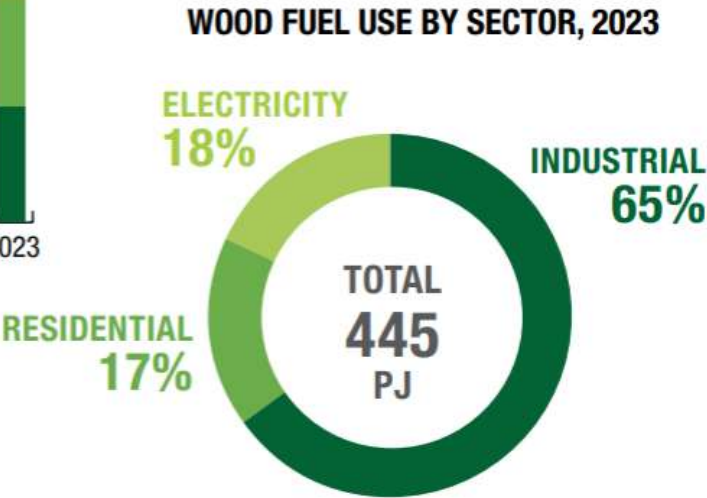
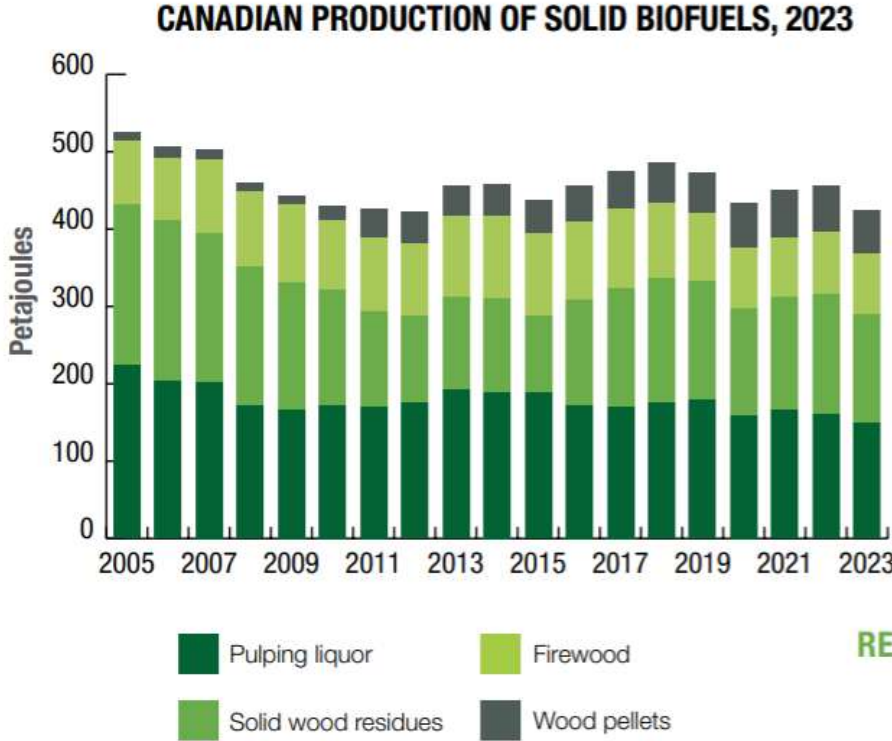


Hydroelectricity



- **83,053 MW capacity in 2024**
- **55% of Canada's electricity generation**
- **3rd largest producer in the world (8%), just behind China and Brazil**

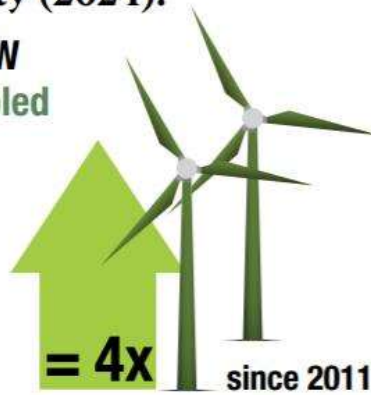
Biomass



Wind Power

Capacity (2024):

17.3 GW
quadrupled

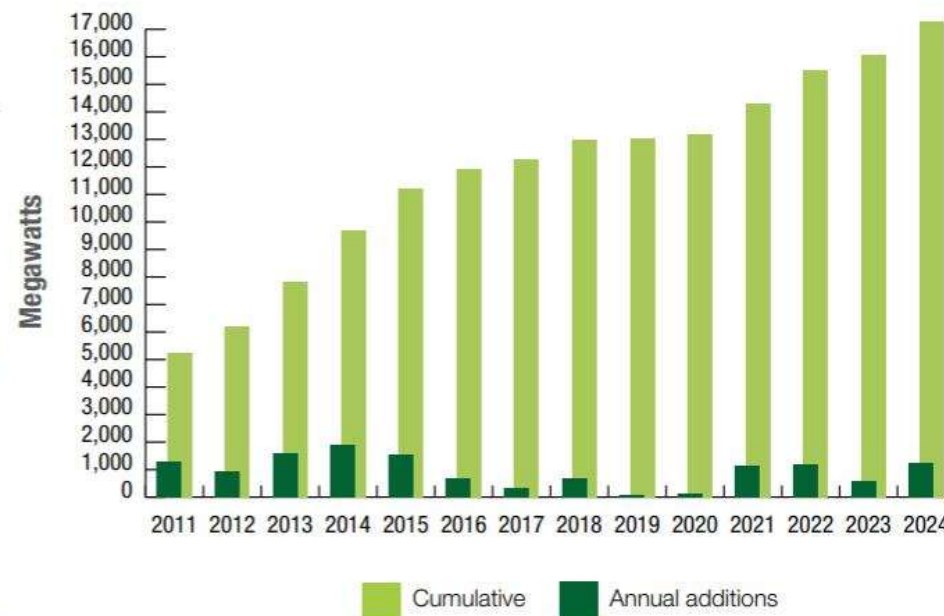


Generation
(2024):

40.4 TWh
more than
tripled

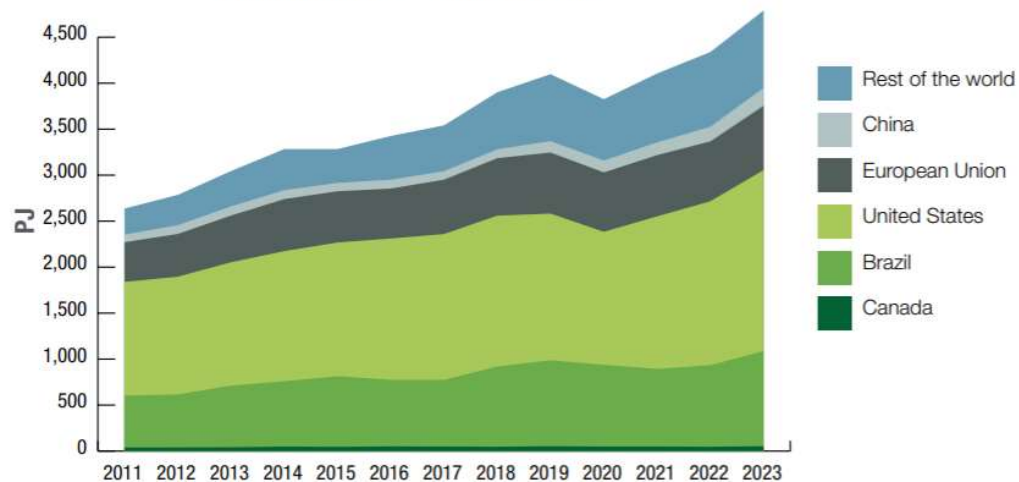


INSTALLED CAPACITY

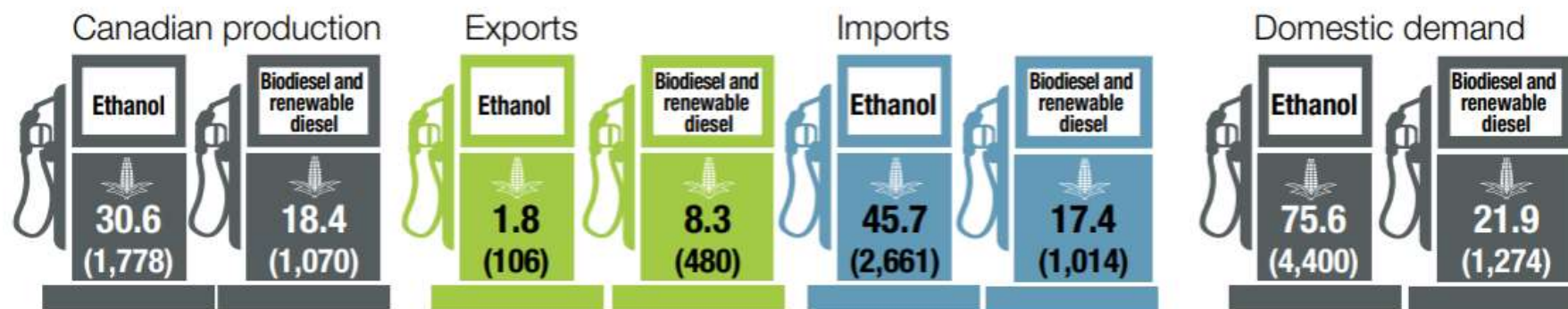


Liquid Biofuels

WORLD BIOFUELS PRODUCTION



CANADIAN SUPPLY AND DEMAND (2025) - MB/D (MILLION LITRES)



CANADA

Waste-to-Energy/Value



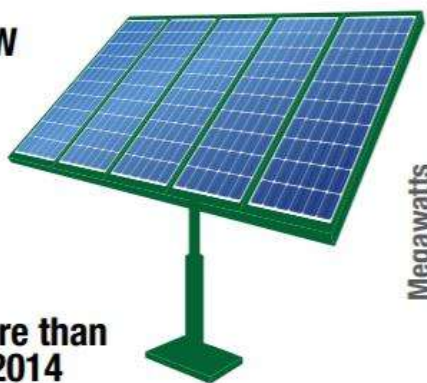
Solar Photovoltaic

Capacity (2024):

5,290 MW



2.4x more than
in 2014



Generation (2024):

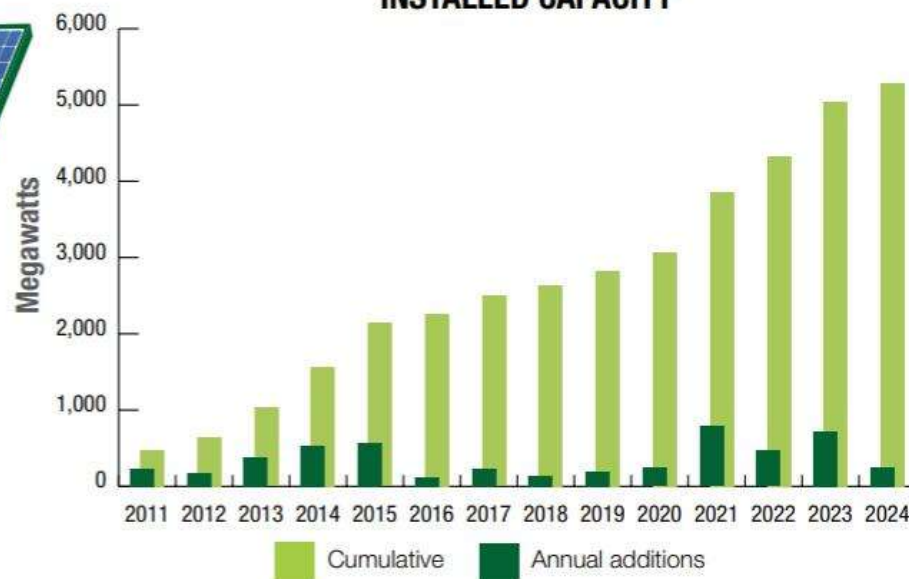
7 TWh



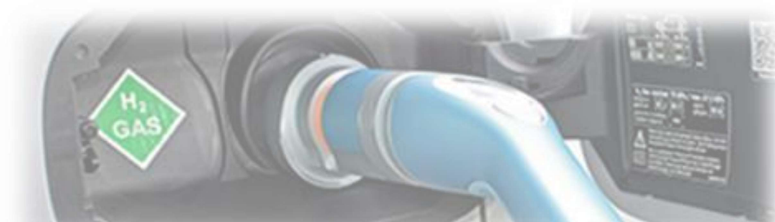
3.0x more than
in 2014



INSTALLED CAPACITY



Hydrogen and Fuel cells



Carbon Capture, Utilization and Storage (CCUS)



[QUEST Project](#)

Nuclear



What Canada is Doing Next

Canada's 2030 Emissions Reduction Plan



Thank you!

Merci!

Kiitos!

Tack!