

# IEA Task 28



## *Observations from Canada*



Task 28 Working Group Meeting

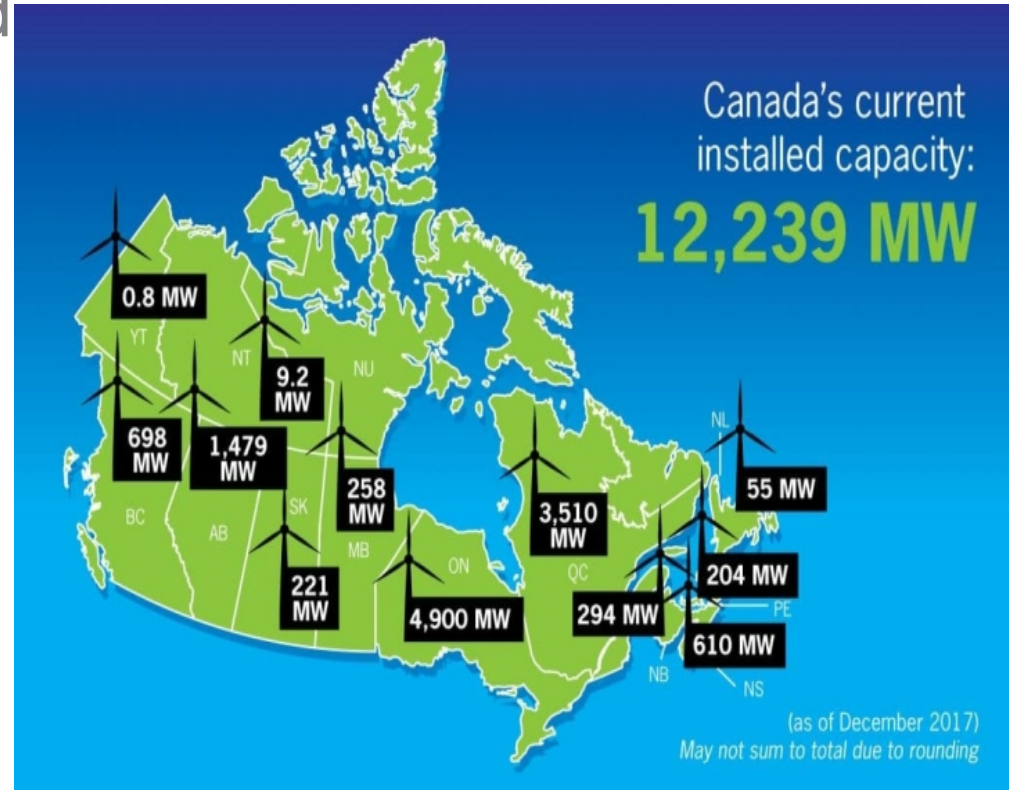
DTU, Riso Campus, Roskilde, DK

March 26-28, 2018

Jamie Baxter, Geography, University of Western Ontario

# Energy Update:

- 12,200+ MW installed wind capacity
- 295 projects, 6400+ turbines (all onshore)
- 30,081 GWh as on 2017-10-25
- Capacity is 6% of Canada's demand



CanWEA <https://canwea.ca/wind-energy/installed-capacity/>

# Energy Update:

- Growth tapering

- 3% in 2017;
- 8% 2015-17 (3yr)
- 23% 2012-2014 (3yr)
- 41% 2002-2011 (10yr)

Marine Renewables Canada to focus on synergies with offshore wind

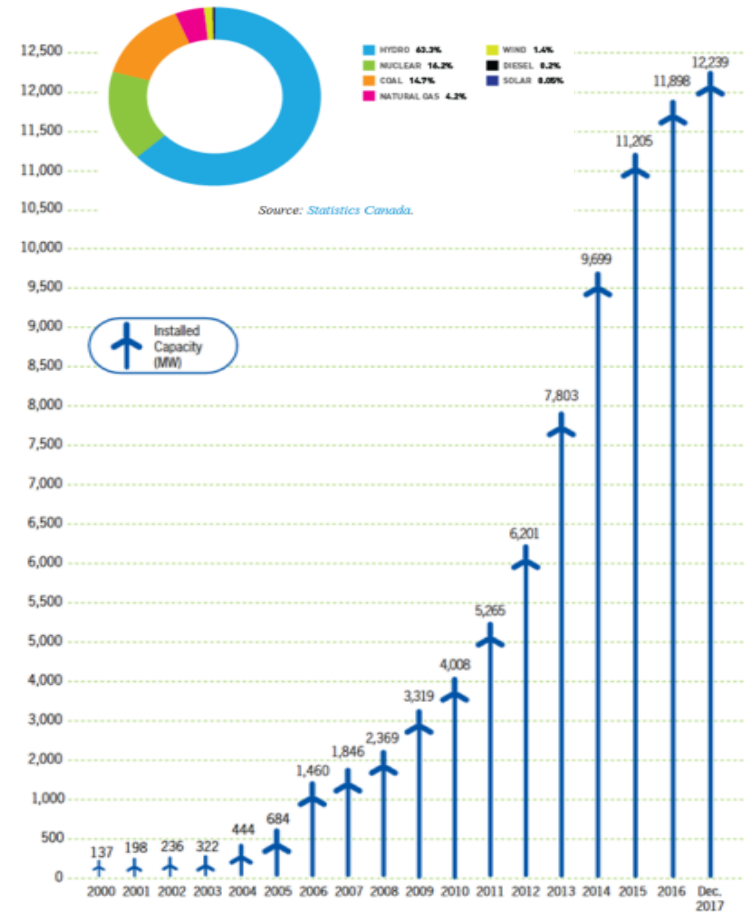
Feb 12, 2018 |



- Wind and renewable energy targets

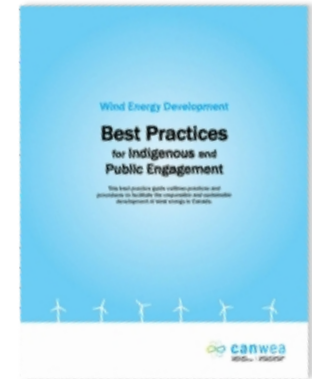
- Some relevance to 2020 climate targets - 59% RE already using mainly hydro
- Select provinces actively pursuing RE goals (e.g. **Nova Scotia**; 40% by 2020;)

ELECTRICITY GENERATION IN CANADA



# Policy/regulation Update:

- Energy production provincial responsibility
- Under political pressure, **Ontario** has suspended its Large Renewable Procurement (LRP) II
  - Status of RE in limbo ‘technology neutral approach’
  - no action until after June 2018 election
- December 2017, **Alberta** first round of its first Renewable Electricity Program competitive procurement competition (5000 MW)
  - 600 MW wind; average price 3.7c/kWh (Ontario’s latest LRP average 8.59c/kWh)
- \$700M federal government to reduce diesel dependency in remote/Indigenous communities

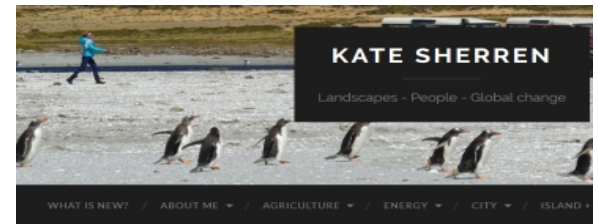


# Research Update:

- Meaning of community wind energy (MOCWE – U. of Western Ontario) <http://coarep.uwo.ca>
- Energy transitions in Canada (U. of Alberta) <http://energytransitions.ca/>
- Positive Energy (U. Ottawa) <https://www.uottawa.ca/positive-energy/>
- Achieving strength, health and autonomy through renewable energy development for the future (Queen's U.) <http://heclab.com/a-shared-future/>
- Offshore research <http://www.marinerenewables.ca/>
- Numerous research centers: e.g., <https://wise.uwaterloo.ca/>; <http://sei.info.yorku.ca/>



Ontario is ground 0 for much citizen concern about turbines in Canada



## Convenient untruths in Alberta

JUNE 2, 2017 / KBSHERREN / 0 COMMENTS

Alberta rich in most energy, inertia at grassroots to transition from fossil f.