

Marine Renewable Energy Open House

Ottawa

March 2016



marine
renewables
canada

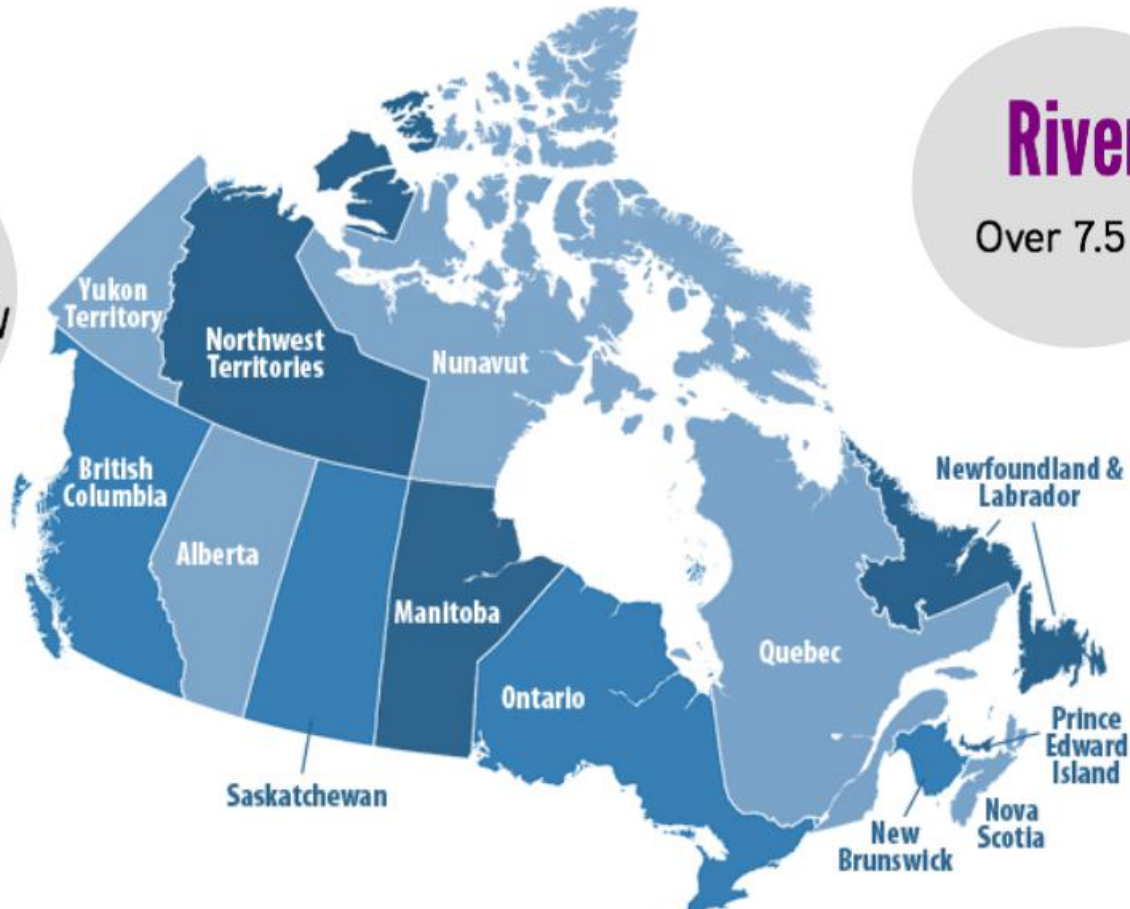
The power to think bigger.

The Resource



Wave

West: 37,000 MW
East: 146,500 MW



River

Over 7.5 GW

Tidal

40,000 MW

A map of Canada with numerous red dots scattered across its coastal waters, representing potential sites for marine renewable energy. The dots are concentrated in the Atlantic, Pacific, and Great Lakes regions, with fewer dots in the Arctic and Hudson Bay areas. A semi-transparent grey banner is overlaid across the center of the map.

Canada's marine renewable energy opportunity

Global Market

Canada

FORCE
- 22 MW permitted
- 64 MW electrical infrastructure

Fundy Tidal Inc. (NS)
- 3 projects; 2.95 MW

Canoe Pass Tidal (BC)
- 500 kW

West Coast Wave Initiative (BC)

Canadian Hydrokinetic Turbine Test Centre (MB)

10 device developers

Supply chain 150+

France

EDF + OpenHydro
- 14 MW tidal project; operational in 2018

GDF Suez + Alstom
- 8.4 MW; 2017

France Energies Marine
- 5 test sites (tidal, wave, offshore wind)

United Kingdom

MeyGen
- 398 MW tidal project in Pentland Firth

European Marine Energy Centre (EMEC)

WaveHub
- Three 10 MW wave energy arrays planned

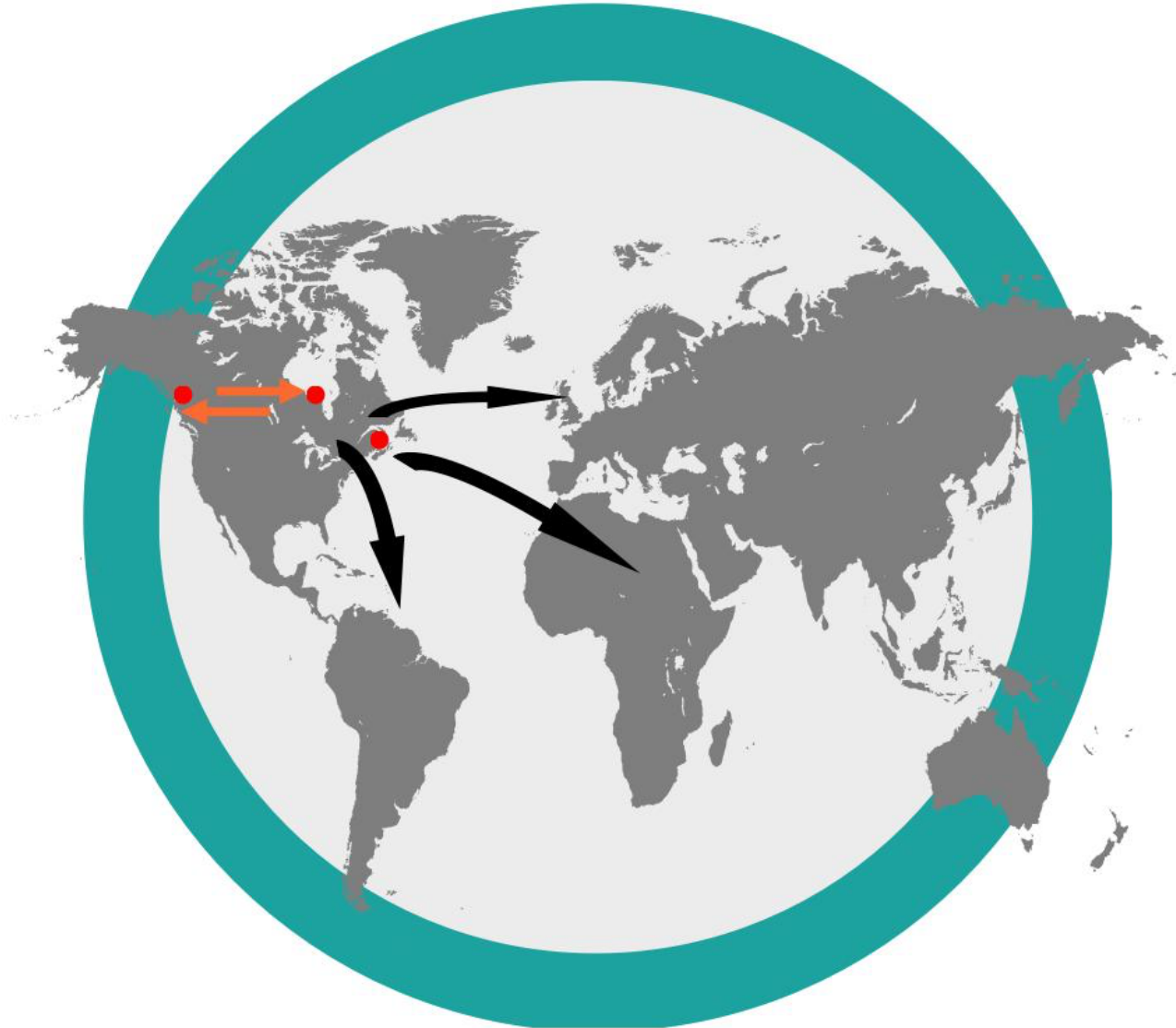
Tidal Ventures Limited
- 100 MW tidal project

Fairhead Tidal
- 100 MW tidal project

Perpetuus Tidal Energy Centre
- 30 MW tidal array in the Isle of Wight

- OES vision = 748 GW of ocean energy by 2050:
 - Nearly 200,000 careers by 2030
 - Saving up to 5.2 billion tonnes of CO2 by 2050
 - \$900-\$1,000 billion value by 2050 (*Carbon Trust*)

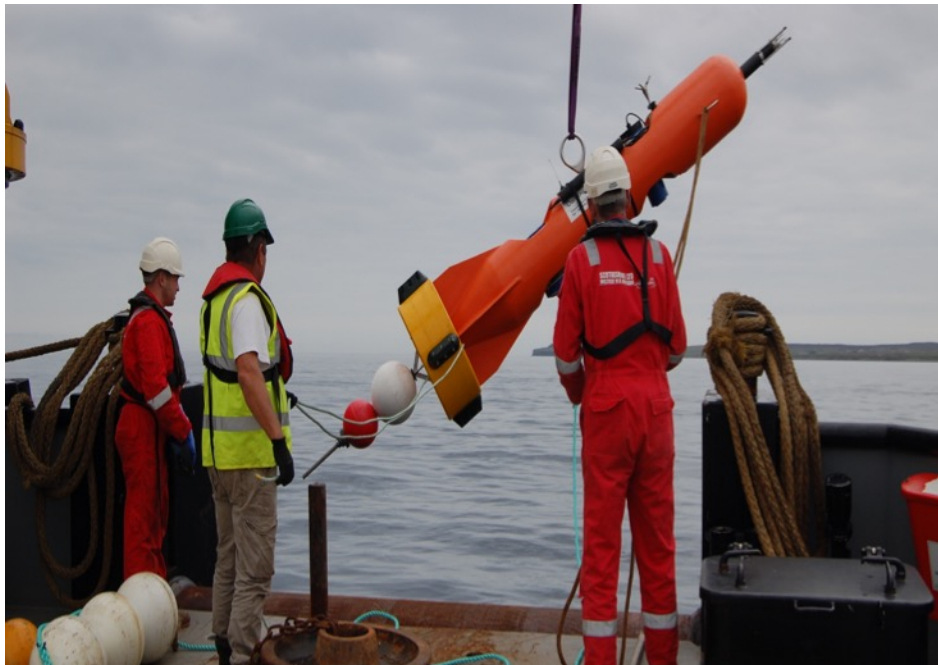
The Vision

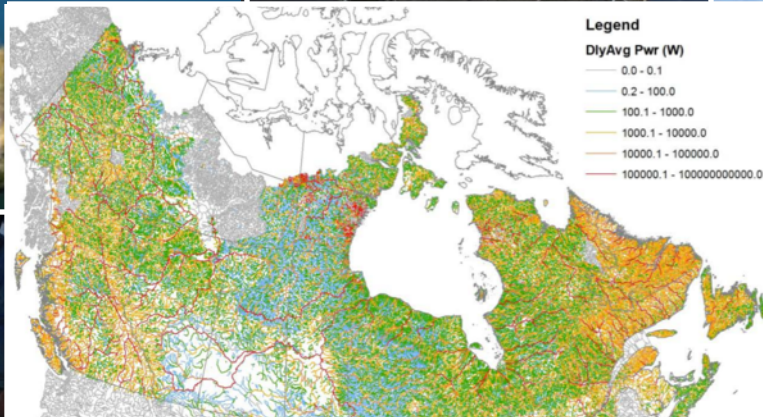


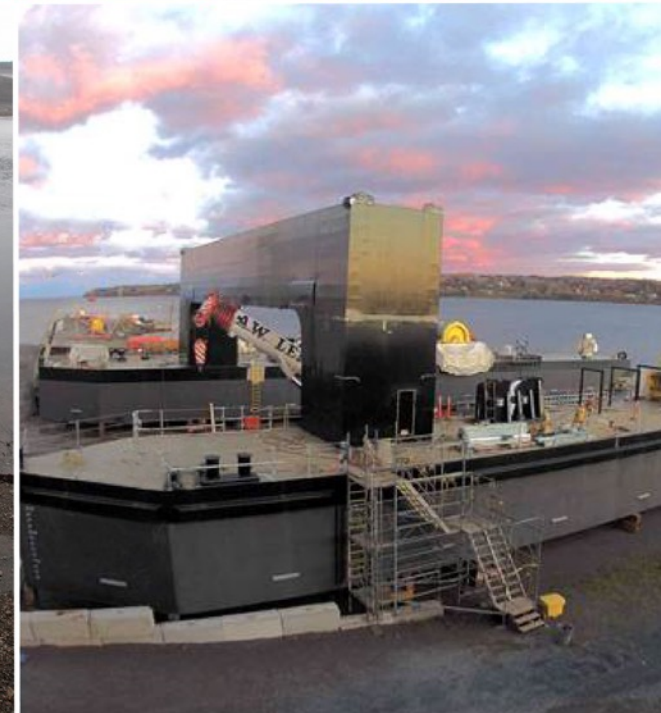
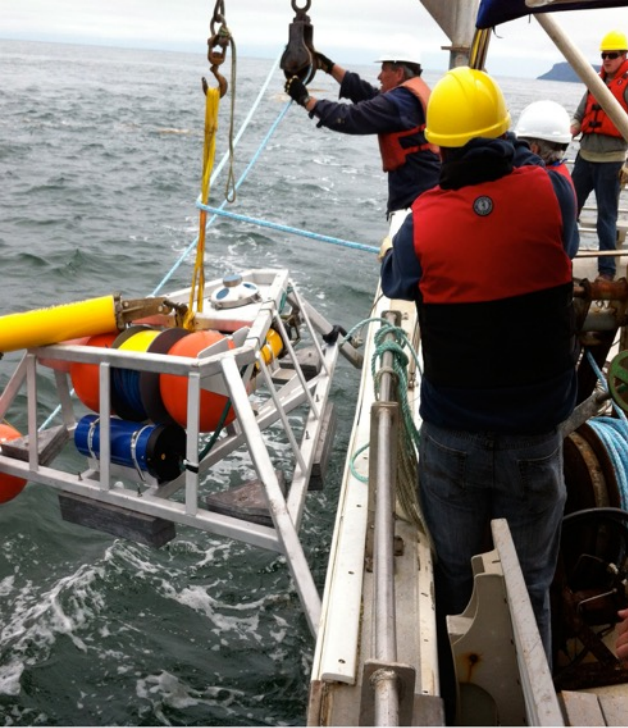
Canada's opportunity



- Jobs, trade, and innovation
 - ~70% of project requirements to use local suppliers
 - Cross-sector transfer of expertise, services, supplies
 - Capturing even 10% of global market share results in \$4-5 billion by 2050
- Clean, renewable energy
 - Predictable, reliable resources
- Energy security and diversification
 - Resource in every province
 - Remote and northern communities







GET IN TOUCH

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