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The Ocean Renewable Energy Group

Ocean Energy in Canada

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All Energy

May 22, 2008

- **BC Activities**
- **Inland Provinces & River Systems**
- **C-MER**
- **Bay of Fundy Demonstration Site**
- **International Collaborations**

BC Activities

- **SyncWave Energy and Marinus Power MOU**
 - Resource measurement buoy deployed
 - Demonstration planned for 09/10



BC Activities

- **BC Tidal Energy and Marine Current Turbines MOU**
 - Three 1.2 MW turbines
 - Goal of 2009



Alberta and Manitoba

- **New Energy Corp.**
 - Commercial units in wastewater and irrigation flows, hydro intake canals
 - Research unit in Manitoba river
 - Ice and weather testing
 - Anchored and suspended systems



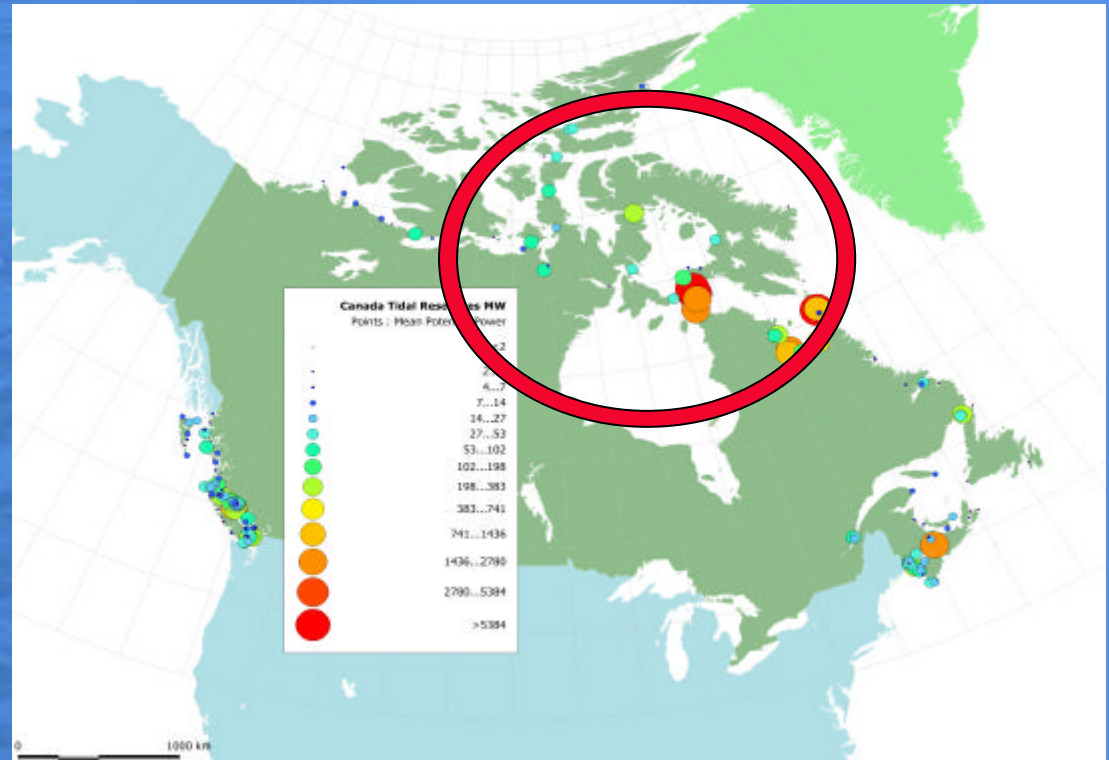
Ontario and Quebec

- **Verdant Cornwall River Project**
 - Site and resource assessment
 - Commercial 2010-2012
 - Max 15 MW
- **Quebec**
 - Consortium of industry, government and research – connections with France
 - Feasibility and resource studies

Nunavut

Canada Potential Tidal Current Resource Sites

- Strong interest in tidal technologies
 - Diesel generation
 - Remote locations



C-MER

- **Canadian Marine Energy Research Network**
 - Virtual network of collaboration
 - National and international
 - Academic and government researchers and facilities, industry partners
 - Organisational workshop May 08
 - Funding proposal Fall 08

Bay of Fundy Strategic Enviro Assessment

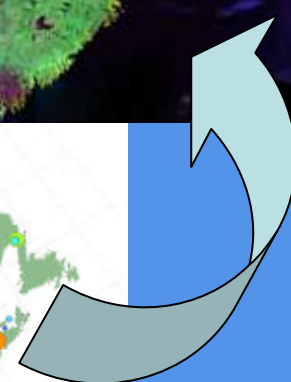
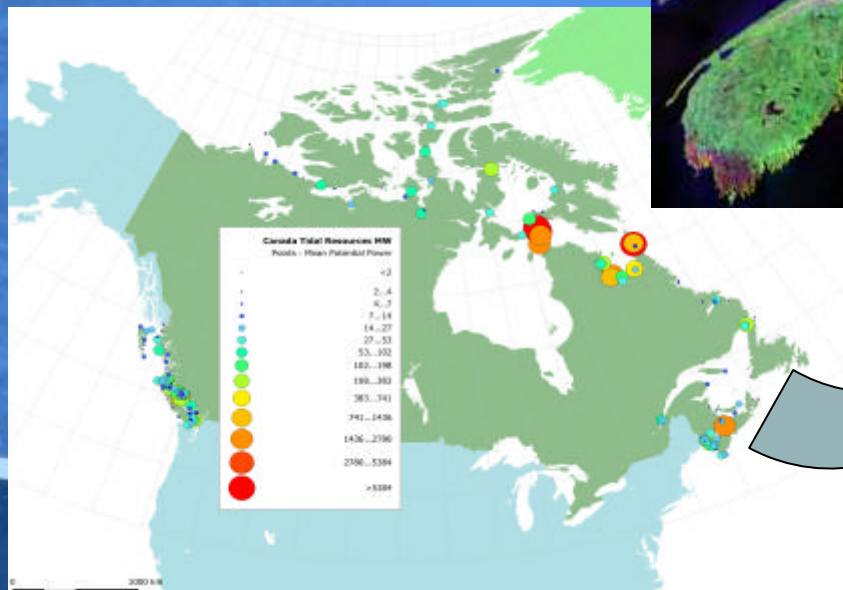
- **Ten Sustainability Principles**
 - Public control remains
 - Net reduction in GHGs
 - Avoid adverse effects to fisheries
 - Strengthen local development capacity

Bay of Fundy Demonstration Centre

Minas Channel

- 10 knot currents
- 3 berths
- Grid connection
- Operational late '09/early '10

Canada Potential Tidal Current Resource

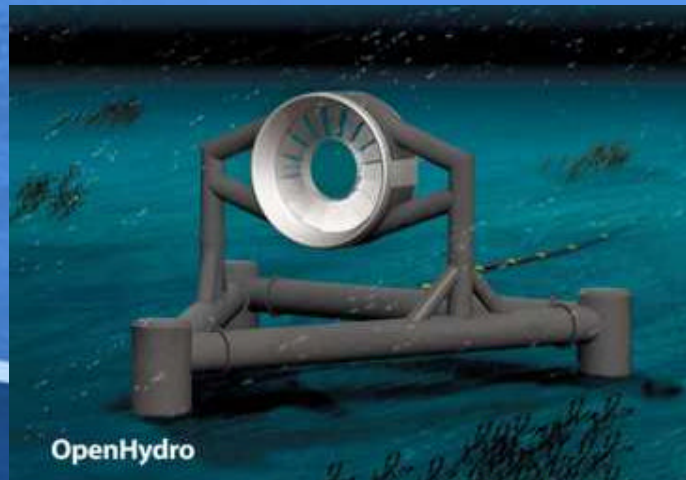


Bay of Fundy Technologies



Site specific environmental
assessment

Federal and provincial permits



International Collaborations

- **To increase knowledge exchange and accelerate development**
 - **Can-US Pacific North West**
 - **Can-US North East**
 - **BWEA**
 - **EU Ocean Energy Association**



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