



Request for Proposals: Bay of Fundy In-Stream Tidal Energy Demonstration Project

The Province of Nova Scotia is seeking proposals to demonstrate an additional in-stream tidal technology at the Fundy Ocean Research Center for Energy (FORCE) in the Minas Passage, Bay of Fundy, home to the highest tides in the world.

The request for proposals is open to developers interested in testing a single device, or array of devices, up to five megawatts (MW). FORCE will soon be installing subsea cables to its four underwater berths, with a total combined capacity of 64 MW.

Together, Nova Scotia and FORCE offer tidal energy developers a supportive climate for the testing and demonstration of in-stream tidal energy devices.

RESOURCE POWER

- 50,000 MW of energy potential in Bay of Fundy
- 7,000 MW of energy potential in Minas Passage
- 13 meter tidal range
- Peak surface speed of 5 meters/second

PRE-APPROVED SITE

- Federal and provincial permits in place
- Independent environmental monitoring program underway

INFRASTRUCTURE IN PLACE

- 138 kV transmission line connects FORCE to national grid
- On-site substation complete; individual control rooms for each developer
- Four double-armoured, 200 amp-rated, 34.5 kV submarine power cables ready for installation (first cable scheduled 2013)



SITE DATA AVAILABLE

- High-resolution multi-beam bathymetry
- High-frequency current data
- Seabed survey imaging

MARKET SUPPORT

- Feed-in tariff process for large-scale single device and array projects currently underway
- Ongoing socio-economic and supply chain research
- Home to the largest concentration of ocean technology firms in North America

POLICY SUPPORT

- Nova Scotia's *Marine Renewable Energy Strategy* target: 300 MW of commercially-competitive energy
- Sector-specific legislation under development, including marine renewable energy licensing system

LEARN MORE

Government of Nova Scotia

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