



Opportunities within Canadian Environmental Technology Sector

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Overview

Canada's Environmental Technology market is large and growing, with over \$18.4 billion in revenues. In 2010, export revenues were \$1.4 billion, and sales of environmental goods accounted for 55% of industry revenues. Canada's ET market comprises of several firms that develop similar technologies and products, which support the environmental market. Canada's waste management and remediation services, for one is the largest single part of the Canadian environment industry. This sector represents nearly one quarter of total environmental industry revenues. Another large segment of the Canadian environment industry includes water and wastewater technologies. In 2012, the estimated upgrade costs for wastewater treatment facilities were estimated at \$1.4 billion.

Other environmental technology strengths that Canada fosters include wind energy technology. Canada is currently the 9th largest producer of wind energy in the world, with the Canadian Federal government committed to seeing 90% of Canada's electricity generated by non-emitting sources by 2020. Similarly, Canada's clean technology market is estimated to be \$10.6 billion and projected to exceed \$26 billion in the next five years.

Sub-Sector Best Prospects

Wastewater Treatment:

- Pipeline construction for the Biosolids Energy Centre and conveyance facilities.
- Advisors needed for legal, finance, risk/insurance, fairness, and conflict of interest adjudicator.
- Proposals sought for planning, surveying, and drilling.
- Macaulay Point and Clover Point Conveyance system – Project scope includes grit removal, partition pump station to pump to McLoughlin, maintain screening and overflow pumping.
- McLoughlin Facilities – Request for proposals will occur during the second quarter of 2013, contract will be awarded by December 2013, and construction will start in 2014.
- Biosolids Energy Centre – Request for proposals will occur during the first quarter of 2014, contract will be awarded by September 2014, and construction will start in October 2014.

Wind Energy:

- Wind turbines, tower sections, rotor blades, casting and forgings and transformers.
- Gears and generators.
- Hydro energy turbines and equipment
- Engineering, construction and logistics services.
- Smart Grid.

Opportunities

Wastewater Treatment:

- Wastewater treatment facilities in Newfoundland Labrador, Quebec, Nova Scotia, British Columbia, Ontario, Alberta, Saskatchewan, the Yukon, and an additional 150 federally owned plants throughout Canada by 2020.
- First Nation Communities 18 water projects - \$165 million in federal funding allocated
- Capital Region District Wastewater treatment plant (\$782.7 million) Victoria, BC

❖ The Core Area Wastewater Treatment Program has 3 main projects:

1. McLoughlin Wastewater Treatment Plant: Consists of a 0.8 kilometer harbor crossing and 1.6 kilometer marine outfall pipeline.
2. Biosolids Energy Centre: Consists of the design and construction of a sludge dewatering and stabilization facility, biosolids storage and truck loading facility, pumping stations, 18 kilometer pipeline to transfer waste from McLoughlin Wastewater Treatment Plant to the Biosolids Energy Centre.
3. Conveyance System Upgrades: Consists of Macaulay Point-McLoughlin Conveyance (\$13 million), Clover Point-Ogden Point Conveyance (\$20 million), Currie Pump Station upgrade/pipelines, consisting of an extension of the Trent Pump Station siphon (\$12.8 million), Craigflower Pump Station replacement (\$10 million), Arbutus Road Attenuation Tank (\$9.5 million).

Wind Energy:

- Experts predict that between now and 2025, 15% of Canada's energy mix will be phased out and will need replacement. Investment of approximately USD \$185 billion dollars will be required for procurement needs (under prospects) - \$95 billion in generating capacity, \$27 billion in transmission and \$63 billion in distribution.
- There are strong political incentives offered by the Canadian federal and provincial governments, and a true commitment to wind energy.

Clean Tech:

- There are several opportunities to be found within different sectors under clean tech. Within oil and gas opportunities include carbon capture and storage, tailing and tailing pond, oil shipment and storage, and leak detection services. In environmental services and green building opportunities such as reclamation and remediation of groundwater and soil, solar energy, eco-certified lumber, double glaze windows, and low volatile organic compound paints are included.

Related Events

- [Americana: International Environmental Technology Show](#)- 19-21st March 2013, Montreal, QC
- [Canada Green Building Council Conference & Expo](#)- 4-6th June 2013, Vancouver, BC
- [GLOBE Environment Trade Show](#)- 26-28th March 2014, Vancouver, BC
- [Canada All Energy Clean-Tech Expo](#) - 9-10th April 2014, Toronto, ON

Web Resources:

- [Export.gov - Renewable Energy Canada CCG 2012](#)
- [Canadian Environmental Technology Industry](#)

For More Information

Please contact Jared Byrne at the U.S. Commercial Service in Canada at Jared.Byrne@trade.gov or (403) 265-2116. You can also visit our website at <http://www.export.gov/canada>.

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