

Canadian industries and businesses are facing new challenges in sorting through a slate of new greenhouse gas (GHG) regulations introduced by federal, provincial and even municipal governments are posing difficult and often conflicting requirements for compliance.

Levelton is helping industrial and business clients find case specific GHG solutions

The Government of Canada announced ratification of the Kyoto Protocol in 2002 and made a commitment to reduce the country's domestic GHG emissions by six percent below 1990 levels by 2012. That goal may now be out of reach as Canada's 2006 domestic GHG emissions of 721 MMt of CO₂e were 22 percent above the 1990 CO₂e emissions level of 592 MMt.

In April 2007 the Canadian Federal Government launched "The Clean Air Regulatory Framework" to act firmly on its Kyoto commitment. The Federal Government aims to reduce domestic GHG emissions by 150 MMt or 20 percent below 2006 levels by 2020 by establishing:

- GHG emission reduction targets for industry sectors
- Emission-intensity based emissions reduction targets for Large Final Emitters (LFE: those releasing 100 kT of CO₂e or over per year)
- GHG emissions monitoring and reporting requirements
- An emission trading system



Canadian provinces are also developing their own set of policies, plans and regulations for their respective provincial jurisdictions. Alberta has introduced the Specified Gas Emitters Regulation, while the BC Government introduced a "revenue-neutral carbon tax" effective July 1, 2008 under the new BC Carbon Tax Act. BC, Ontario, Quebec and Manitoba have also joined the Western Climate Initiative (WCI) – a North America wide multi-jurisdictional collaboration aimed at reducing region-wide GHG emissions. WCI goals include:

- Setting regional emissions reduction goals
- Developing a registry to track and manage emissions reductions
- Designing a multi-jurisdictional market-based GHG emissions cap and trade system

Starting in 2010 all entities and facilities within the WCI jurisdictions with annual verifiable emissions 10 Kt of CO₂e or above will have to report their GHG emissions. This threshold is in sharp contrast with the federal GHG emissions reporting threshold of 100 Kt of CO₂e per annum. Other implications of the major Canadian provinces joining the WCI that will affect regulated facilities include:

- Preparing annual verified GHG emissions inventories that require third party audits
- Reporting GHG emissions annually to the Climate Registry
- Participating in multi-jurisdictional GHG emission trading markets
- Recurring investment on technology upgrades and emission controls to meet the emission caps established by each WCI partner



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Levelton Consultants Ltd. (Levelton) is helping industrial and commercial clients prepare for a carbon constrained business environment by:

- Preparing GHG Inventory Management Plans (IMP)
- Developing and verifying annual GHG Emissions Inventories and offset projects
- Identifying facility specific emission reduction opportunities and developing emission reduction plans and strategies
- Evaluating GHG emissions liabilities
- Identifying market-based GHG emissions trading opportunities

We are also providing GHG emissions verification and validations services to facilities reporting under Alberta's Specified GHG Emitters Regulation (SGER).



Levelton's strength in the field of GHG Emissions and Climate Change emanates from the numerous projects of provincial and national importance which we have recently and successfully completed, including:

- GHG Emissions Inventory and Emission Reduction Strategies for Vancouver International Airport (YVR)
- GHG (Policy and Regulatory) Support Services to the Mining Association of BC
- GHG Emission Verification services to Imperial Oil & Syncrude, Alberta
- GHG Emissions Inventory for the City of Revelstoke
- Options to reduce CO₂ emissions from electricity generation in the APEC region
- Development and use of a lifecycle greenhouse gas computer model for Canada (GHGenius)

Please contact us if you have questions about our current GHG services or if you would like to discuss your GHG management needs with us. We offer services nationally through our offices in BC and Alberta.

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