

# North American GHG Regulation - Where Do We Stand? -

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#### Agenda

- ICF Overview
- Update on US legislative/regulatory developments
- Status of Canadian GHG regulation
- > SEC reporting guidance
- Questions



# ICF History, Experience and Climate Services

#### **ICF** History

- Founded in 1969 Forty years of experience
- Headquarters in the Washington, D.C. area; global presence with 50 offices throughout the world
- Working throughout the energy and environment space
  - Fuel and emission markets, environmental assessment and compliance, policy analysis
  - Air, water, waste
- More than 3,500 employees

#### Highlights of Climate Experience

- Over 230 professionals with climate-related expertise
- Provided climate policy advice to > 60 governments
- Providing climate strategy advice to > 65 companies in the FT Global 500

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#### **Climate Service Offerings**

- Carbon market pricing analysis
- Compliance analysis—how will legislation/regulation affect a company's operations/business
- > **Energy efficiency**—portfolio assessment
- Voluntary strategy support—companies not likely to face compliance constraints
- Value-at-risk—how will various lines of business be affected by action on climate?
- Financial industry—investment portfolios, carbon offset businesses, etc. they are/have been developing
- Carbon offset projects—project feasibility, project support (PDDs), due diligence, market analysis
- Carbon footprinting—initial entrée leading to broader environmental/sustainability strategy

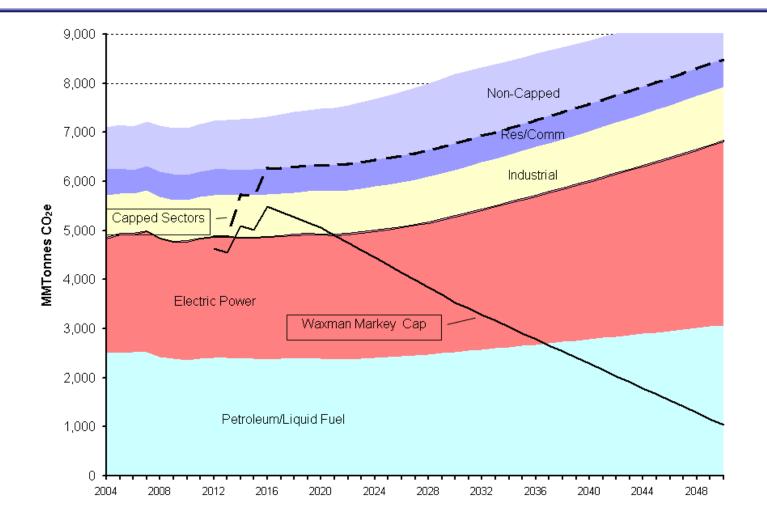


## **Current Legislative Proposals**

- Waxman/Markey Bill HR 2454 passed June 26, 2009. Kerry/Boxer Senate bill passed out of committee in November.
- National, economy-wide cap and trade program starting in 2012. Reductions from 2005 levels:
  - 17% by 2020 (20% in Senate bill)
  - 42% by 2030
  - 83% by 2050
- Large emitting facilities covered directly: Electric generators (2012) and industrial facilities that emit >25,000 tons GHG/year (2014)
- CO<sub>2</sub> emitted from petroleum and small natural gas users (residential, commercial) regulated at point of production or import (upstream).
  - Petroleum refiners and importers (2012)
  - Natural gas liquid producers (2012)
  - Gas LDCs (for deliveries to non-capped entities) (2016)
- Extensive use of domestic and international emission offsets.



#### Waxman-Markey Cap





## **U.S. Legislative Outlook**

- With the Senate bill out of committee, the Senate is now free to pursue active discussion on a modified bill.
  - Targets and timetables not changing.
- Cantwell/Collins bill proposed with regulation at point of production, 100% auction, limited trading and offsets, most revenue allocated to consumers.
- Kerry, Graham, Lieberman developing an integrated, revised proposal. Could include some Cantwell provisions as well as:
  - Fuel tax instead of cap for transportation emissions.
  - Support for nuclear and oil and gas development.
- Progress this Spring could allow passage in the Fall or early next year.
- > Most likely driver is industry desire for an alternative to direct regulation.



### **Direct EPA Regulation - Background**

- > April 2007 Supreme Court rules that EPA can regulate  $CO_{2=}$
- July 2008 EPA releases Notice of Proposed Rulemaking exploring regulatory options but suggesting that legislation would be a better approach
- Sept 30, 2009 EPA proposes NSR/Title V "Tailoring Rule" addressing implementation of CAA limits on GHGs.
- December 2009 Final Endangerment Finding signed by Administrator, took effect January 14<sup>th</sup> 2010
- March 29, 2010 "Johnson Memo" reconsideration establishes driver and schedule for required permitting of GHG emissions for new and modified facilities.
- April 1, 2010 National Emissions & Corporate Average Fuel Economy Standards (CAFÉ) finalized by EPA and NHTSA.



#### **Direct Regulation - PSD**

- The EPA has announced that the Endangerment Finding and CAFÉ standards will trigger regulation of GHGs from stationary sources under Prevention of Significant Deterioration – PSD starting in 2011.
- PSD is part of the New Source Review (NSR) process, which requires emission reductions from new and modified sources.
- PSD requires new and modified stationary sources to adopt Best Available Control Technologies (BACT).
- BACT is determined on a case-by-case basis often by a state permitting agency and must be demonstrated and commercially available and meet some measure of cost-effectiveness.
- Historically, regulators have not been allowed to require a fundamental change in project design, for example, to require a source to change the type of combustor or fuel in the project proposal. Not clear whether this will change.



## **Implications of Direct Regulation**

- The direct requirements under PSD may not be strict initially but the delay and uncertainty are likely to be significant and could affect financing for all kinds of large projects.
- Other forms of regulation such as New Source Performance Standards are being developed and other requirements such as Title V permit updates will be triggered.
- The overall effect on large emitters could be very costly and disruptive and could drive support for a legislative solution. This is already starting to happen in the power sector.
- > There are legal and legislative challenges to these regulations but:
  - Their success is unclear.
  - Further delay is not helpful to industry.



#### **Possible Future Scenarios**

- Clean Air Act regulation currently happening
- Federal GHG legislation stalled now but moving forward later?
- Intermediate options
  - Power sector only cap
  - Energy bill only
  - Four-P power sector bill
- Delay/continued uncertainty could be most difficult outcome



#### But Wait, There's More...

- > Coal-fired powerplants should be planning now for compliance on  $SO_2$ ,  $NO_x$ , air toxics, ash, water (316 a/b).
- Gas prices are lower and likely to stay that way.
- Can coal plants pay for the criteria pollutant controls and survive long enough to be replaced by cleaner technologies? Does GHG regulation put them over the edge?
- Lack of certainty dries up capital and creates delay. Regulatory delay makes it worse.
- The calculation is relatively straightforward under cap and trade. Under direct regulation, it may be the uncertainty that kills them.

# Canadian GHG Policy: Update and Federal Policy Shift



#### Policy Shift:

- "Alignment" with US GHG policy,
- Intensity-based system to a federal economy-wide cap and trade approach
- 2020 reduction target of 20% below 2006 levels.
- Compliance Mechanisms:
  - Limited details, the government has focused on the design and roll-out of the domestic Offset System.
  - Policy discussions with several provinces focused largely on information sharing, policy harmonization issues/challenges and building equivalency agreements.
  - Bilateral meetings with thermal electricity and oil & gas sectors.
- Emissions Reporting:
  - Canadian emitters (50,000 tCO2e+) have until 1 June 2010 to report their 2009 GHG emissions to Environment Canada.
  - Most of the Provinces have similar (but not identical) requirements to report as well (BC, AB, SK, ON)



#### North American Climate Change Commitments & US/Canadian Alignment

- Main Challenge Different Country Profiles:
  - Major issue is around the relative differences between the size, cost and composition of the emissions reduction challenges between Canada and the US.
  - Canada is exposed to significantly higher costs within certain sectors and industries than the US (e.g. manufacturing and oil sands).
  - The means of setting targets and allocation distribution (gratis vs. auction) will establish the relative level of emission reduction effort by sector and by country.
- Canada-US Policy Alignment:
  - If Canada and the US fail to properly align policy designs, there exist significant risks to competitiveness, particularly for trade-exposed sectors.
  - Without appropriate policy alignment, or opportunities for alignment, valid concern around the imposition of border tax adjustments and "green protectionism".
- Clean Energy Dialogue:
  - Cross-border dialogue include: CCS; Clean Energy Systems; and Smart Grid.
- Low-Carbon Fuel Standard (LCFS):
  - Federal: limit the procurement by federal entities of transportation fuel derived from "C-intensive" unconventional oil.
  - California: LCFS for transportation fuels aimed at reduction in the carbon intensity of the fuel mix.



# Investor Relations, Reporting and Disclosure

- There were a record 68 climate-related shareholder resolutions filed by U.S. investors during 2009 proxy season, including a first-ever majority vote (51.2 percent) with IDACORP, an electric utility in Idaho.
- Virtually all major accounting standards bodies (e.g. IFRS, IASB, FASB, US GAAP, etc.) have created task forces to provide comprehensive guidance on how corporations should account for emission allowances.
- On February 2, 2010, the SEC published interpretative guidance intended to clarify the duty public companies have to disclose business risks and opportunities posed by climate change.
- SEC's guidance highlights the following areas where climate change may trigger disclosure requirements:
  - Impact of Legislation and Regulation
  - Impact of International Accords
  - Indirect Consequences of Regulation or Business Trends
  - Physical Impacts of Climate Change
- Companies who have not done so should establish a process for assessing whether and to what extent climate change matters are material to the company and, if so, include appropriate disclosures in their SEC filings



#### Conclusions

- We are far from the end of the process of regulating GHGs. It will not be done soon, but it is not going away.
- Direct federal regulation and regional regulation may precede federal legislation but will then precipitate it.
- The need for certainty may eventually drive industry to demand legislation.
- Current bills represent a good depiction of most of the characteristics of future federal legislation.
- Investors should be evaluating how companies are responding to and planning for these outcomes.



## **Appendix**

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# **Award-Winning Performance**

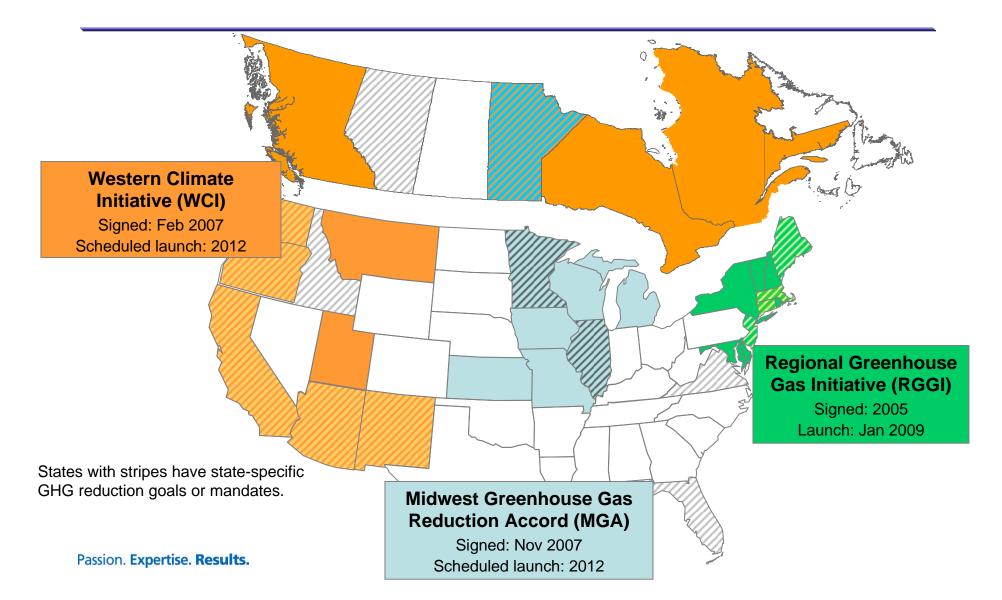


- Recognized year after year for excellent client support by Environmental Finance readers survey
- Best Advisor in four categories plus one Runner-Up in 2009





#### **State Initiatives on GHG Regulation**

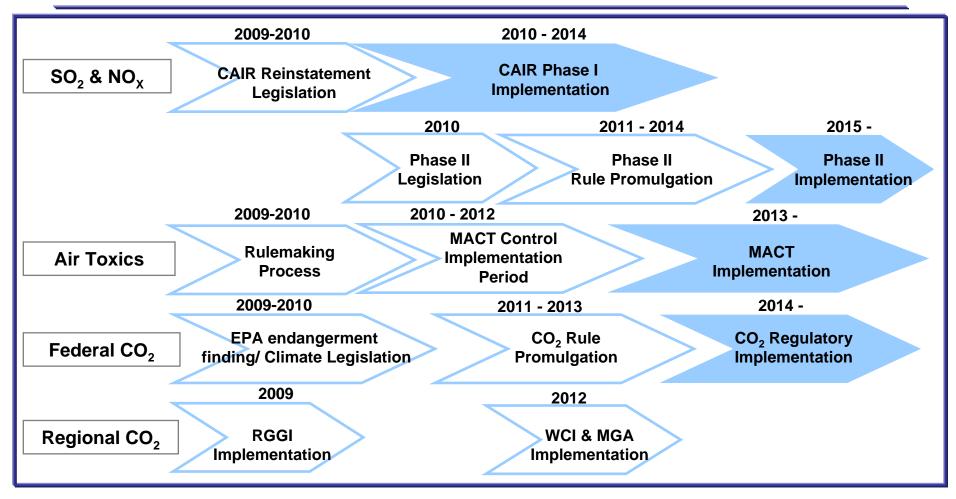




- RGGI Power sector cap and trade continuing but over-allocated. More actions by NE states – Low Carbon Fuel Standard (LCFS) MOU signed on Dec 30<sup>th</sup>; some discussion of expanding coverage under RGGI to other sources
- WCI continues to move forward, released draft guidance for establishing allowance budgets for WCI partner jurisdictions on Nov 25, 2009; currently in the process of harmonizing the WCI reporting rules with the Federal rules; a number of upcoming meetings scheduled. Some states may withdraw.
- MGGRA draft model rule released in Oct 2009
- Linking of Regional GHG Initiatives Representatives of RGGI/MGGRA/WCI met in 2009 to discuss linkage



#### **Regulatory Uncertainty Across Multiple Air Emissions**



Does not include other media and issues - Water, Ash Ponds

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