CANADIAN STANDARDS

ISO's Climate Change Standards

Kevin Boehmer Secretary, ISO TC207 WG5 & WG6 **Canadian Standards Association** TEAM COP11 Parallel Event - ISO Standards Panel Montreal, December 8, 2005

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ISO in Brief

- > ISO the International Organization for Standardization was established in 1947 and is based in Geneva, Switzerland;
- ISO a non-governmental organization is a federation of the national standards bodies of 149 countries (one per country) and 500+ international/regional liaison members:
- > ISO is comprised of 3,000+ technical groups that develop standards with the broadest possible base of stakeholder groups;
- ISO develops standards by transparent, consensus-based procedures based on national input;
- ISO meetings attract some 50,000 experts a year;
- ISO has published over 15,000 international standards;
- ISO standards are designed to be implemented world-wide.

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ISO Climate Change Chronology

ISO/TC 207 Climate Change Task Force	 <u>Purpose</u>: ISO's initial consideration of climate change issues, focusing on the linkage to existing ISO 14000 standards. <u>Timeline</u>: Pre-2000
ISO Technical Management Board – Ad Hoc Group on Climate Change	 <u>Purpose</u>: Research market needs for ISO climate change standards and provide strategic advice to the Technical Management Board <u>Timeline</u>: January 2000 – February 2002
ISO/TC 207 Working Group 5 on Climate Change	 <u>Purpose</u>: Develop standards for GHG quantification, monitoring, reporting and verification. <u>Timeline</u>: June 2002 – present
Joint ISO CASCO/TC 207 Working Group 6 on Validation AND Verification Bodies	 <u>Purpose</u>: Develop standards for the accreditation of GHG validation and verification bodies. <u>Timeline</u>: September 2004 – present

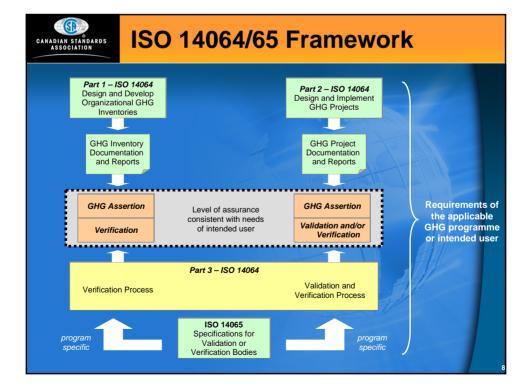
CANADIAN STANDARDS ASSOCIATION	SO GHG Standards
Scope	Standard
Organizations	Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1).
Projects	Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions and removal enhancements (ISO 14064-2).
Validation and Verification	Greenhouse gases - Part 3: Specification with guidance for the <i>validation and verification</i> of greenhouse gas assertions (ISO 14064-3).
Accreditation	Greenhouse gases - Specification for greenhouse gas validation and verification bodies for use in <i>accreditation</i> and other forms of recognition (ISO 14065).

CANADIAN STANDARDS Who is Doing the Work?				
ISO TC 207 – Environmental Management <i>Managed by CSA (Canada)</i>				
Working Group 5 (ISO 14064) – Climate Change Managed by CSA (Canada) & DSM (Malaysia)	Working Group 6 (ISO 14065) – Recognition of GHG V/V Bodies <i>Managed by CSA (Canada) &</i> SSA (South Africa)			
Started work in late 2002.	Started work in late 2004.			
175 experts, 45 countries.	• 75 experts, 30 countries.			
Liaisons/observers include: Liaisons/observers include:				
World Business Council on Sustainable	International Accreditation Forum			
Development (WBCSD) World Resources Institute (WRI) 	 United Nations Framework Convention on Climate Change (UNFCCC) 			
➢ World Bank	International Emissions Trading			
 Intergovernmental Panel on Climate Change (IPCC) 	Association (IETA)			
United Nations Framework Convention on				

Climate Change (UNFCCC)

CANADIAN STANDARDS ASSOCIATION ISO 14064 Development						
Activity	2002 J J A S O N D	2003 J F M A M J J A S O N	D J	2004		2006 F M
Meeting 1 (South Africa)	1	-				
Working Draft 1 - Analysis & Preparation			≻	Malaysia/Canada	led Working Group;	
Meeting 2 (Germany)	2		≻		m ± 45 countries and	
Working Draft 1 - Preparation & Distribution			_	23 liaison organia	zations.	
Meeting 3 (Malaysia)		3				
Working Draft 2 - Preparation & Distribution						
Meeting 4 (Indonesia)		4				
Committee Draft 1 - Preparation & Distribution						
Meeting 5 (London)				5		
Committee Draft 2 - Preparation & Distribution						
Meeting 6 (Argentina)				6		
DIS Preparation & Ballot						
WG5 Meeting 7 (Australia)					7	
FDIS Preparation & Ballot						
WG5 Meeting 8 (Spain)					8	
Final Editting & Publication						_ √





ISO 14064-1: Organizations

1 Scope

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- 2 Definitions
- 3 Principles

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- 4 GHG inventory design and development
 - 4.1 Organizational boundaries
 - 4.2 Operational boundaries

4.3 Quantification of GHG emissions and removals

5 GHG Inventory components

5.1 GHG emissions and removals

- 5.2 Organizational activities to reduce GHG emissions or increase GHG removals
- 5.3 Base year GHG inventory

6 GHG inventory quality management

- 6.1 GHG information management and monitoring
- 6.2 Document retention and record keeping

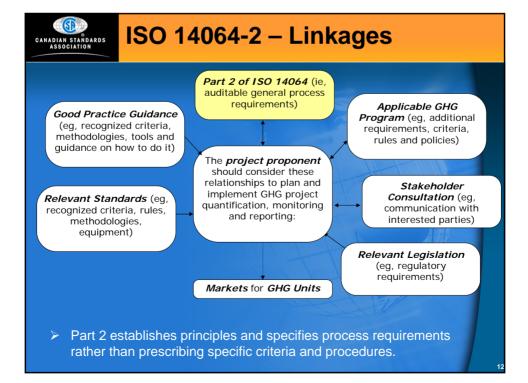
7 GHG reporting

- 7.1 GHG report planning
- 7.2 GHG report content
- 7.3 GHG report format
- 7.4 GHG report dissemination
- 8 Verification (1st party)

Benefits of ISO 14064-1

- Provides a template for use in the market to provide clarity and consistency between users and their stakeholders.
- Provide requirements for quantification & reporting of GHGs to:
 - Enhance the credibility, consistency, and transparency of GHG quantification, monitoring and reporting and hence enhance environmental integrity;
 - Facilitate organization GHG management strategies:
 - Corporate risk management;
 - Identifying mitigation opportunities.
 - Facilitate tracking of performance and progress in the reduction of GHGs to:
 - Enable target setting and goals;
 - Assist participation in voluntary initiatives (eg GHG registries or reporting programs;
 - Preparation and/or participation in GHG markets.

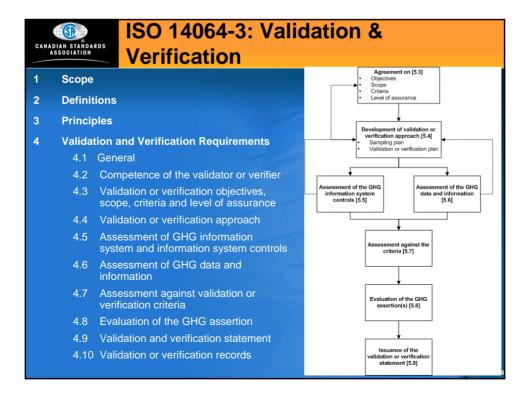
CANADIAN STA ASSOCIAT	NDARDS	ISO 14064-2: Projects
1	Scope	
2	Definit	ions
3	Princip	les
4	Introdu	action to GHG projects
5	Requir	ements for GHG projects
	5.1	General requirements
	5.2	Describing the project
	5.3	Identifying GHG sources, sinks and reservoirs for the project
	5.4	Determining the baseline scenario
	5.5	Identifying GHG sources, sinks and reservoirs relevant to the baseline scenario
	5.6	Selecting GHG sources, sinks and reservoirs for regular monitoring and quantification
	5.7	Quantifying greenhouse gases
	5.8	Managing data quality
	5.9	Monitoring the GHG project
	5.10	Documenting the GHG project
	5.11	Validating or verifying the GHG project
	5.12	Reporting the GHG project 11





- Benefits organizations, governments, project proponents and stakeholders worldwide by providing clarity, transparency and consistency for quantifying, monitoring, reporting, validating and verifying GHG emission reductions/removal enhancements from GHG projects.
- May benefit GHG markets by facilitating the development • and supply of GHG projects and/or lowering transaction costs.
- Can be applied in: •

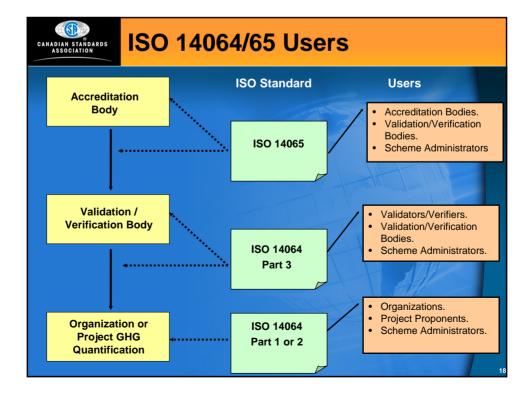
- CDM/JI projects in the context of the Kyoto Protocol;
- CDM/JI projects in the context of emission trading programmes (eg, EU-ETS);
- > Other GHG-projects in the context of emission trading programmes (eg, Canada's Offsets System.





Purpose	 Specifies principles and requirements for bodies that undertake validation or verification of greenhouse gas (GHG) assertions. Can be used to accredit or recognize validation or verification bodies.
Principles	- Impartiality - Competence - Confidentiality - Openness - Factual Approach to Decision Making
General Requirements	 Legal and contractual matters Governance and management commitment Management of impartiality Liability and financing
Competencies	 Management and personnel Validation and verification team, inc. team leader Use of contracted staff Outsourcing

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Communication and Records	 Information exchange. Confidentiality. Publicly accessible information Records
Validation and Verification Process	 Refers to ISO 14063-3. Pre-engagement. Approach. Validation or verification Review and issuance of the GHG statement Records Facts discovered after the validation or verification.
Other Requirements	 Appeals Complaints Management system
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ISO GHG Standards Status

Standard	Current Status	Expected Publication
ISO 14064 - Part 1 Organization quantification	 Final Draft International Standard (FDIS) Vote closes Feb. 1/06 	≻ March 2006.
ISO 14064 - Part 2 Project quantification	 Final Draft International Standard (FDIS) Vote closes Feb. 1/06 	≻ March 2006.
ISO 14064 - Part 3 Validation and verification	 Final Draft International Standard (FDIS) Vote closes Feb. 1/06 	> March 2006.
ISO 14065 – Accreditation and recognition	 Draft International Standard (DIS) to be released Dec/05 or Jan/06. 	≻ Late-2006 to early- 2007.

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Summary

- Climate change programmes (voluntary, mandatory) have or are being developed in many jurisdictions - there is a need for consistency in GHG quantification, verification and accreditation approaches to reduce duplication, minimize costs and provide for comparability.
- ISO 14064/5 standards:
 - ✓ Are GHG policy neutral;
 - Can be applied across organization and project types, sizes and sectors;
 - ✓ Satisfy an important market need;
 - ✓ Involve a wide range of stakeholders;
 - Act as a common "building block" to initiatives or GHG programmes;
 - ✓ Are auditable (ie, validation/verification).
- ISO 14064/5 is not a GHG programme or scheme, but discrete GHG quantification, verification and accreditation tools for use by organizations, project proponents or GHG programmes.



