

Second Round Stakeholder Review Workshop

5th Cycle of Protocols in Alberta's Offset System

October 29-30, 2009

Matrix Hotel, Edmonton



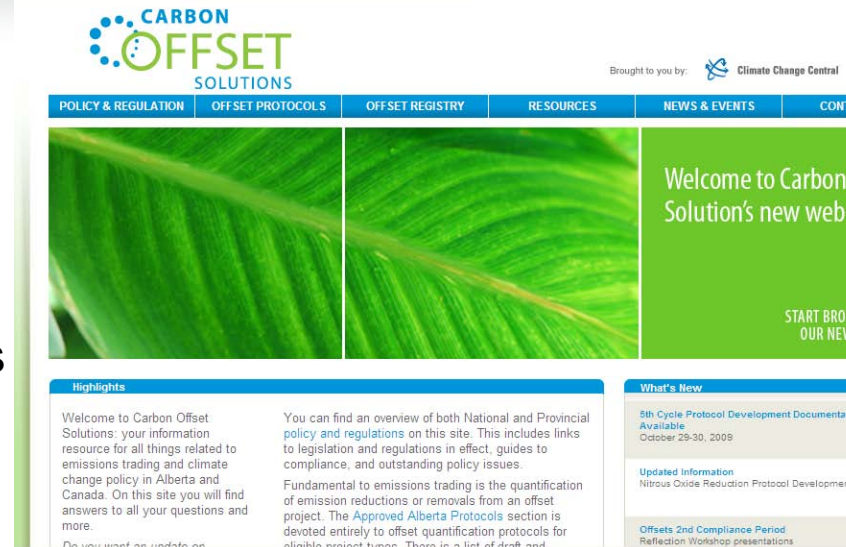
Climate Change Central

Albertans taking action

Offset System Services – C3

Six key service areas:

1. Process and coordination for development and review of protocols
2. Hosting and developing the offset system registry user-friendly interface
3. Offset and emissions trading policy analysis
4. Drafting guidance documents for protocol development, validation, project development, and verification
5. Facilitating impartial evaluation and monitoring of the offset system
6. Providing informational support to the market such as materials to educate market players and additional tools for a well-functioning offset system



AGENDA: Thursday, October 29, 2009

8:00 to 8:30	Welcome & Continental Breakfast
8:30 to 9:30	Agenda Overview and Overview of Protocol Development Process <i>Climate Change Central</i>
9:30 to 10:30	SOLUTION GAS CONSERVATION <i>Protocol Developer - ICF</i>
10:30 to 11:00	<i>REFRESHMENT BREAK</i>
11:00 to 12:00	REDUCTION OF METHANE EMISSIONS FROM OIL AND GAS <i>Protocol Developer – BlueSource</i>
12:00 to 1:00	<i>LUNCH BREAK</i>
1:00 to 2:00	PUMP SYSTEM CONVERSION EMISSION REDUCTION PROTOCOL <i>Protocol Developer – Encana</i>
2:00 to 3:00	CARBON CAPTURE AND STORAGE EMISSION REDUCTION <i>Protocol Developer – BlueSource</i>
3:00 to 3:15	<i>REFRESHMENT BREAK</i>
3:15 to 4:15	MECHANICAL PULP SLUDGE UTILIZATION – AGRICULTURE APPLICATION <i>Protocol Developer – Alberta Research Council</i>
4:15 to 4:30	Day Wrap-up; Questions; Closing Comments <i>Climate Change Central</i>



AGENDA: Friday, October 30, 2009

8:00 to 8:30	Welcome & Continental Breakfast
8:30 to 9:00	Agenda Overview and Overview of Protocol Development Process Climate Change Central
9:00 to 10:30	DISCUSSION ON ALBERTA PROTOCOL DEVELOPMENT AND REVIEW PROCESS (Open Discussion) <i>**Telephone dial-in capability for discussion</i> Dial in Phone Number: 1-866-792-1318 Conference ID: 4483462#
10:30 to 11:00	REFRESHMENT BREAK
11:00 to 12:00	NORTH AMERICAN PROTOCOL UPDATE (Open Discussion) <ul style="list-style-type: none">AFFORESTATION PROTOCOL REVIEW of technical modifications <i>**Telephone dial-in capability for discussion</i> Dial in Phone Number: 1-866-792-1318 Conference ID: 4483462#
12:00 to 1:00	LUNCH BREAK
1:00 to 2:00	NITROUS OXIDE EMISSION REDUCTION PROTOCOL Protocol Developer – BlueSource / ClimateCHECK (Canadian Fertilizer Institute)
2:00 – 2:15	REFRESHMENT BREAK
2:15 to 3:15	SELECTION FOR RESIDUAL FEED INTAKE IN BEEF CATTLE Protocol Developer – Alberta Agriculture/University of Alberta
3:15 to 4:15	SUMMERFALLOW REDUCTION AGRICULTURE PRACTICES Protocol Developer – BlueSource /Alberta Agriculture
4:15 to 5:00	Questions; Summary; Closing Comments Climate Change Central

Alberta Carbon Offsets: Science-based Protocols

- **ISO 14064-2:2006 Framework**
 - In synch with past (2003-2006) and current Federal framework
- **Standards are Stringent**
 - Considers all GHG's impacted by the Project
 - Streamlined life cycle assessment
- **Development and Review Process**
 - Transparent, based on Good Practice Guidance
 - Guided by Four Criteria:
 - Environmental Integrity; Practicality; Building on past knowledge and good practice; Streamlined life cycle



ISO 14064-2 Principles

1. **Relevance** - select GHG sources and sinks, emission factors and formulae appropriate to the environmental integrity of the protocol.
2. **Completeness** – should consider all relevant GHG emissions and removals. Relevant information used to support decisions made in the quantification process should be transparently documented.
3. **Consistency** - to ensure meaningful comparison of GHG-related information. In particular, like emissions need to be compared in baseline and project scenarios – ‘Functional equivalence’.
4. **Accuracy** - reduce bias and uncertainties as far as practical; rely on IPCC and National Inventory methods as much as possible.
5. **Conservativeness** - conservative assumptions, values and procedures are used to ensure that GHG emission reductions or removal enhancements are not over-estimated.
6. **Transparency** - present your calculations, assumptions and decisions in a clear, upfront manner that facilitates review by reviewers, interested parties, verifiers - ultimately Alberta Environment will need this to accept the protocols.



Standards-Based, Consensus-Building Exercise

ISO 14064-2

- Defines the Requirements
- Tells the developer what to do not how to do it
- Generic, nonsectoral

Alberta OS Rules

- Some requirements defined through the Policy
- Some procedures are a given
- Sectoral

Alberta Protocol Application

- Performance-based standard' approach:
-simplified and prescriptive to achieve a certain level of performance
- Project Type
- Many criteria and procedures established and justified – the how to's

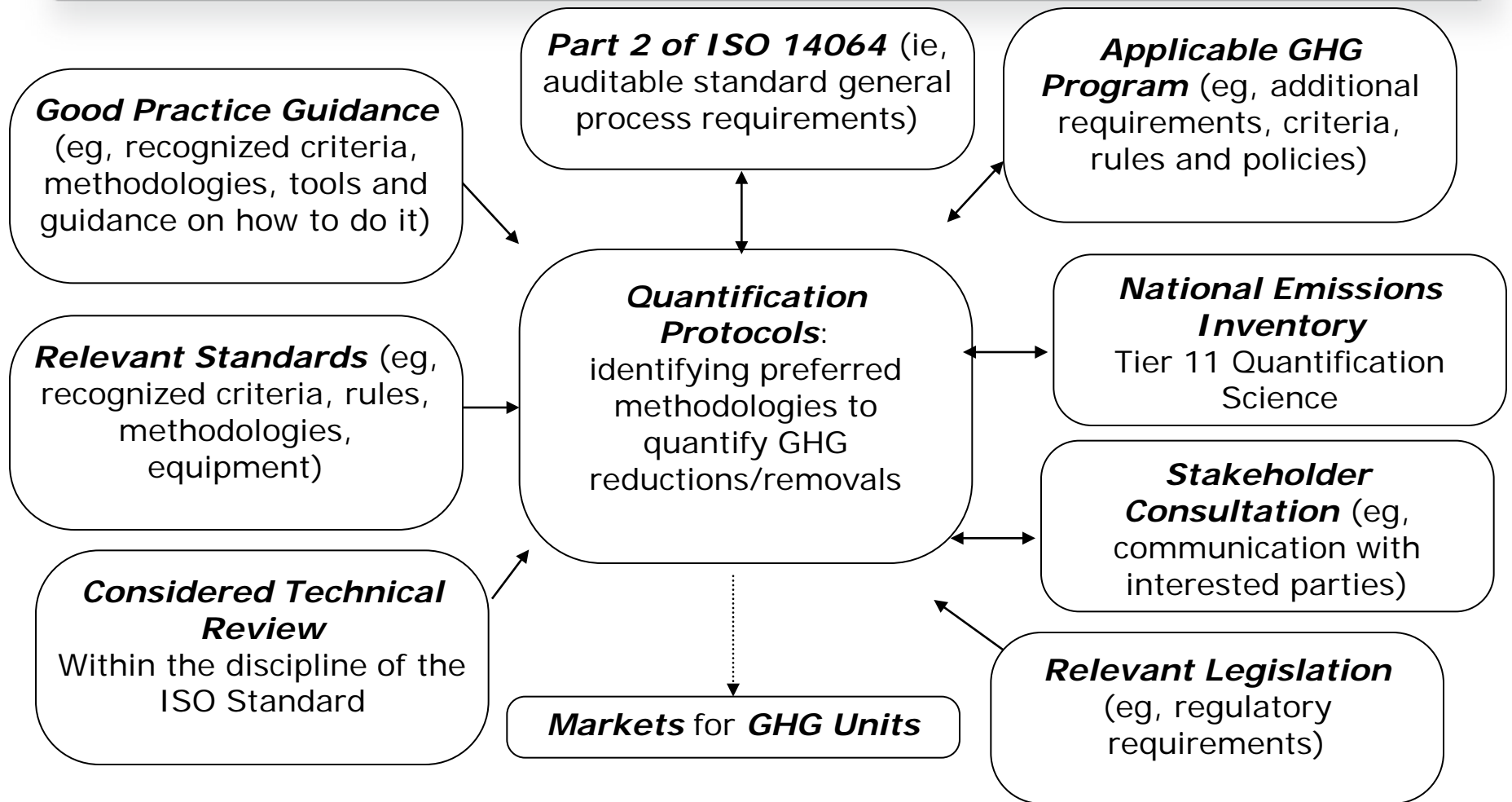
Project Plans



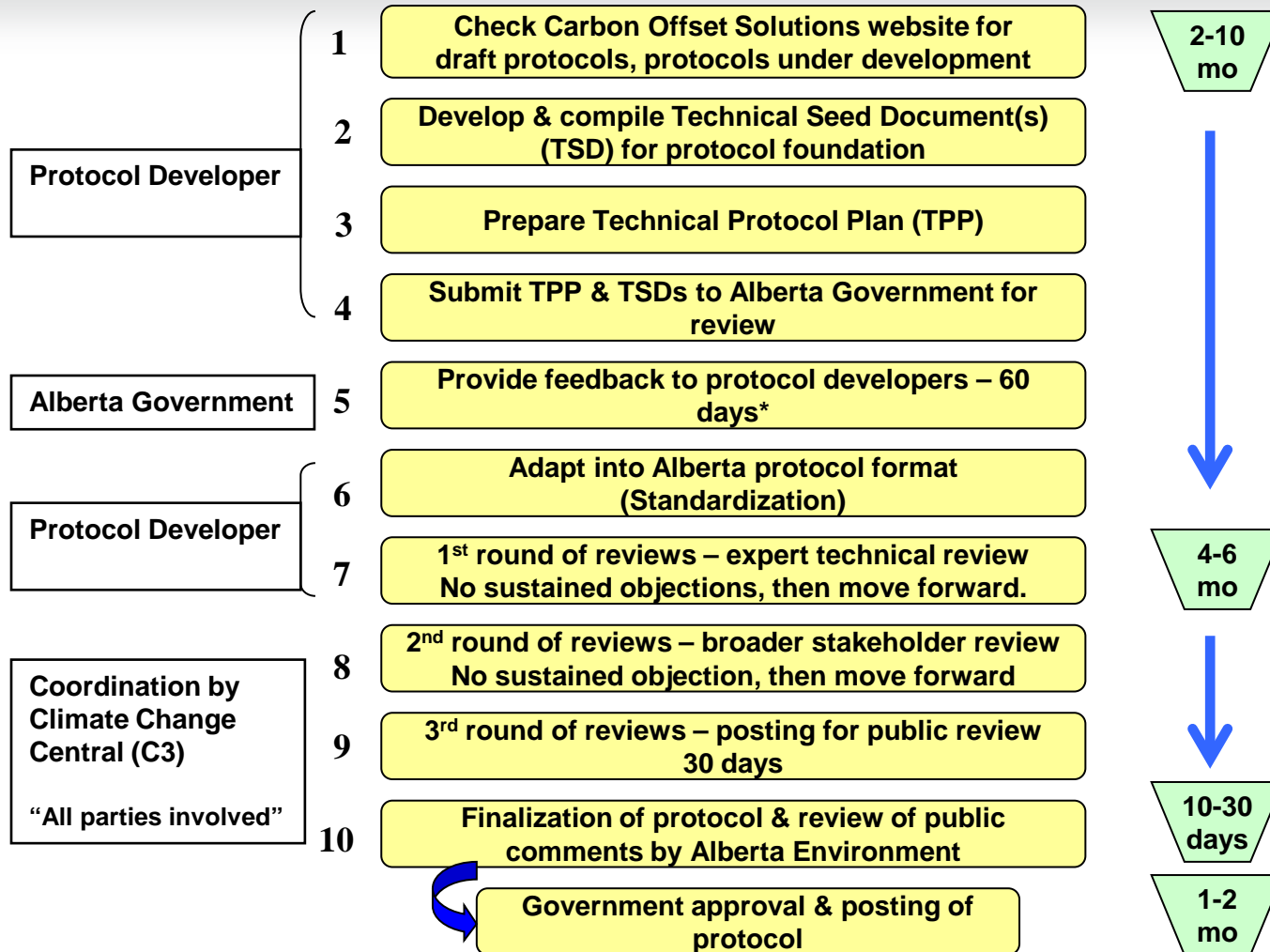
- Project specific
- Must show they meet the requirements
- Establish some criteria and procedures



Protocol Development Requires:



Protocol Review and Milestones Today



Steps Before the Review Process – Traditional:

- **Phase 1 – Scoping and Compilation of Available Science**
 - Based on transparent, peer reviewed science, best practice guidance, scientific input/review from leading researchers and technical experts
 - ISO 14064-2 Framework; *technical scoping document*
- **Phase 2 – Science Discussion Document**
 - *Science Discussion Paper* (SDD) compiled and reviewed by outside experts
- **Phase 3 – Science Coordination**
 - SDD used to coordinate science, foster discussion, identify options and build consensus on key protocol factors
 - 80% Consensus to advance options; *Technical Seed Document*
- **Phase 4 – Protocol Standardization into Alberta Template**

Enters the Alberta Review Process



Alberta Protocol Review Process

- Fall of '07 – Evaluated by CSA GHG Services Group
- Jan 1, '08 – Industry invited to develop Protocols
- Innovation in Project Types - incredible response
 - Covering the expanse of unregulated activities
 - No brainers to new technologies
 - BUT...
- Level of technical development and transparency waned
- Noticed by outside observers – concern over robustness and extent of the input



Protocol Revisions

- Government gives credit duration period of 8 years (maybe 5+)
 - ‘Sink’ Protocols longer (Soils 20y; Afforestation 60y)
- Protocols reviewed every 5 years – based on Best Available Science of the Day
- Grandfathering of Projects with “Protocol of the Day”
- But – if a direct problem in quantification – amendments immediate (eg. *Afforestation*)
 - If impacts existing projects – stakeholder consultation
- Anticipate protocol reviews will be a collaborative, transparent process



Principles Guiding the Review

1. **Environmental Integrity**
 - Solid technical context upstream, downstream and at project site
2. **Usability**
 - Must be a balance between being practical and having integrity
3. **Adapting from others**
 - If techniques/approaches are being used elsewhere (CDM, JI, other systems) and are applicable here
4. **Streamlined Life Cycle**
 - ISO 14064 process, consider all potential sources and sinks in the technical review



Want More Information?



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