

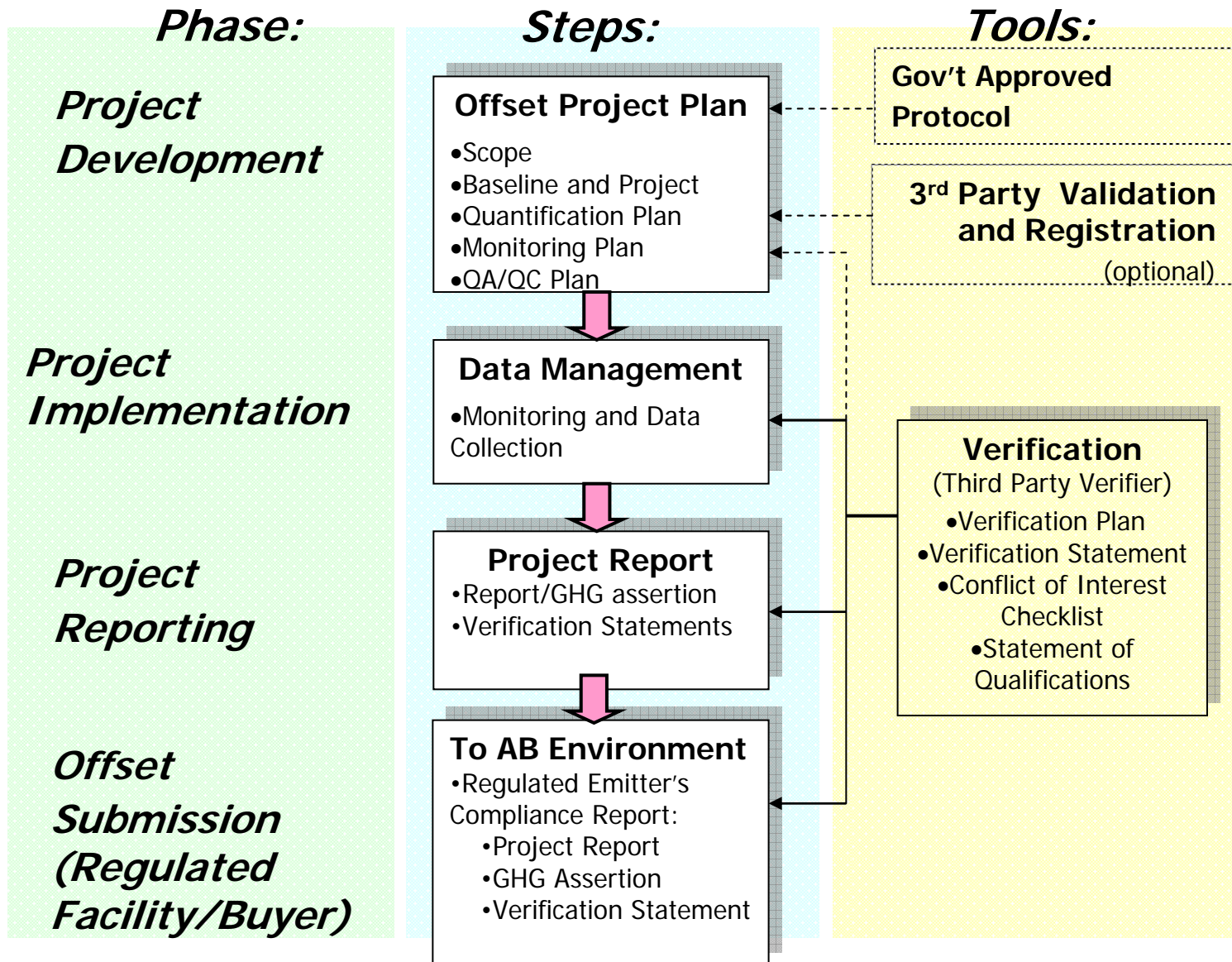


meeting the challenge

Protocol Development Process

Alberta

Getting a Credit to Market in AB



Offset System Design

- Ex-Poste Verification System
 - Need strong government approved protocols
- Validation– optional
 - Business Risk management tool
- Protocols
 - Developed on ISO 14064 Part 2 framework
 - Considered scientific and technical review
 - Basis for linking and building when other markets are developed

Alberta OS Rules

- Fit to Specified Gas Emitter Regulation:
 - Result from activities on or after January 1, 2002;
 - Be real, demonstrable, quantifiable, measurable;
 - Occur at a place other than a regulated facility and from actions not otherwise required by law;
 - Have clearly established ownership;
 - Be counted once for compliance purposes.
 - Be verified by a qualified third party;
 - Occur in Alberta

Standards-Based Protocols

ISO 14064-2

Alberta OS Rules

Alberta Protocol Application

Project Plans

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

- Some requirements given
- Some procedures
- Sectoral

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

Why ISO 14064-2?

- Based on an International Standard:
 - Streamlined Life Cycle Assessment
 - Identify the relevant GHG emissions controlled by the project
 - Also identifies impacts outside the project and off-site of the project (related and affected)
 - Systematic process

ISO Steps

Project

1. Describe the project
2. Identify SSR for the project

Baseline

3. Select baseline scenario (historical, comparison, projection, baselines of similar projects that have been registered)
4. Identify SSR for the baseline scenario

Select 'relevant SSR' and requirements for quantification

5. Select 'relevant SSR' for quantification (those affected and controlled)
6. Establish 'relevant SSR' for monitoring
7. Describe quantification procedures for emissions and removals from 'relevant SSRs'

Quantify reductions / removals

8. Quantify emission reductions or removal enhancements (or reversals)

Alberta Protocol Development Process

- Step 1 - Technical seed document (TSD)
- Step 2 - Adapt the TSD into Alberta protocol format
- Step 3 – 1st – round of expert technical review
- Step 4 - Incorporate review revisions
(Consensus – no sustained objection)
- Step 5 – Prepare abridged protocols
- Step 6 - 2nd round of stakeholder review; recommendations go to Alberta Environment
- Step 7 – 3rd round of reviews – posting for public review; recommendations go to AENV
- Step 8 - Finalization of protocols – to Alberta Environment
- Step 9 – Approval of protocols

Principles Guiding the Reviews

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

Adapting/Adopting...

- Using Best Practice Guidance:
 - Environment Canada's Guide to Protocol/Quantification March 2006 (draft)
 - Protocol adaptation guidelines developed by IPOG March 2007
 - Canada's National Inventory Submission 2006
 - ISO 14064 Part 2 Standard
 - StatsCan Agriculture Census and Farm Environmental Management Survey
 - Expert Opinion (consulted where need be in adapting protocols)
 - WRI GHG protocol

Protocol Format

1. Main Document:
 - Protocol scope and Description
 - Project and Baseline Conditions, Material Flow charts, Flexibility Provisions, Functional Equivalence
 - Quantification Development and Justification
 - Identification of Sinks and Sources; Relevant Sinks/Source selections and comparisons
 - Quantification/Monitoring Procedures for the Relevant Sinks/Sources
 - QA/QC Procedures
 - Appendices on Emission Factors/Additional guidance
2. Excel Calculators accompany protocols
3. AB revisions/technical decisions on Web

Current Protocols for Review

- Renewable Energy
 - Solar, Run of River Hydro, Wind
- Buildings
 - Residential and Industrial/Commercial)
- Beef (Days on Feed and Revised Edible Oil)
- Acid Gas Injection
- Inter-modal Switching
- Landfill Bioreactor
- Road Rehabilitation

My Profile

Welcome to your profile on the Alberta Emissions Offset Registry. Use this page to edit your profile, submit and edit project information, and request both serialization and retirement.

1 new message

- Home
- My Profile
- Search Projects
- Search Participants
- Help
- Contact
- Logout

- Messages
- Edit Profile
- My Projects
 - Project Tonnes (list)
 - Serialized offsets (list project)
 - Delisted offsets (list serial numbers) (list project) (list recipient)
 - Retired Offsets (list serial numbers) (list project) (list recipient)

Register Projects

Offsets are one of the mechanisms regulated entities can use to reach compliance under the Specified Gas Emitters Regulation. These offsets must be Alberta based and meet a number of criteria in order to be used to reach compliance. An offset must originate from a voluntary action in a non-regulated sector or operation.

Additional criteria include:

- Result from actions taken on or after January 1, 2002;
- Occur on or after January 1, 2002;
- Be real, demonstrable, quantifiable;
- Not be required by law;
- Have clearly established ownership;
- Be counted once for compliance purposes.
- Be verified by a qualified third party; and,
- Have occurred in Alberta.

These are minimum criteria. It is important to note that meeting these criteria does not guarantee that an offset will be eligible for compliance

How to Use the Alberta Offset Registry

- Four Steps to Showcase Your Project and Use Greenhouse Gas Emission Reductions or Removals *-pdf will contain all the 4 step info*

Please download the following schedules to register your project

- GHG Project Application Form
- Schedule A – Acknowledgement of GHG Clean Projects Registry Mandate
- Schedule B – GHG Clean projects Registry Services Agreement
- Schedule C – Designation of Authorized Project Contact

Request Serialization

- Submit Schedule D

Request Retirement

- Submit Schedule D

Saved Searches

Load Saved Search

APPLY DELETE

results show on search page

A Word About the Registry

A Word About the Grid Intensity Factor

- Working Group led by AENV
 - 7 months; many approaches
- WRI/CDM Methodology
 - WRI - <http://pdf.wri.org/GHGProtocol-Electricity.pdf>
 - CDM - http://cdm.unfccc.int/methodologies/Tools/EB35_repan12_Tool_grid_emission.pdf
- Number will be between 0.55 and 0.7 tonnes CO₂e/MWh - 0.65 is being confirmed