

Reporting Regulation Overview and Key Questions

BC Greenhouse Gas Reduction
(Cap and Trade) Act

BC Ministry of Environment

January 28, 2009



Agenda

1. A brief overview of the regulation (15-20 min)
 - ✓ Who has to report?
 - ✓ Core requirements
 - ✓ Alternative parameter measurement
 - ✓ Reporting
 - ✓ Verification
2. Discussion of key questions (~1 hr)



Important Elements

1. Reporting threshold of 10,000 tonnes CO₂e by calendar year, excluding biomass listed in Schedule C
2. Sufficient rigour to support a market-based trading program
 - a) Third party verification for facilities 25,000 tonnes or greater
 - b) Financial level data controls and data audit trail
 - c) Prescribed quantification methods
3. Data collection started January 1, 2010 for calendar year
4. Emissions reports submitted by March 31, 2011
5. Public disclosure of reported emissions



Reporting Operation

(S.1- Definitions and interpretation)

✓ **Single facility operation**

an operation that operates in a facility and carries out a covered activity listed in Table 1 of Schedule A

✓ **Linear facilities operation**

all of the facilities within BC that are under management and control of the same person and carry out one or more covered activities listed in Table 2 of Schedule A



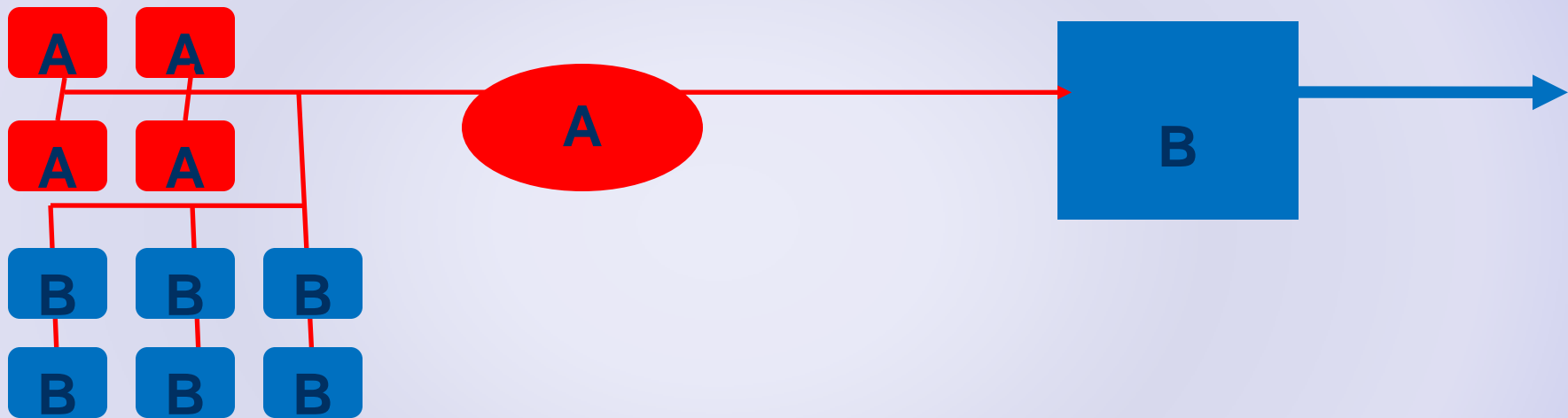
Facility Definition

(S.1- Definitions and interpretation)

“Facility” includes

- (a) All buildings, structures, stationary items and equipment that
 - i. Are located or used primarily on a single site, contiguous sites or adjacent sites;
 - ii. Are managed or controlled by the same person, and
 - iii. Function as a single integrated site,
- (b) Wastewater collection and wastewater treatment systems that treat waster from a facility, if the systems are on or adjacent to a site or sites referred to in paragraph (a) (i) and are managed or controlled by the person referred to in paragraph (a) (ii), and
- (c) Mobile equipment , primarily used at the site or sites referred to in paragraph (a) (i) , that functions as part of the integrated site;

Linear Facilities Operation Aggregation



- ✓ Operation A would assess against thresholds and report for their four wells, gathering lines and small processing plant
- ✓ Operation B would assess against thresholds and report their six wells, major processing plant and transmission pipeline

Example: Cement Plant

Reporting Operation

CEMENT PLANT

Activity

Stationary combustion

Mobile equipment

Cement production

Coal storage



Source Type

Combustion at a stationary device

Combustion by mobile equipment

Process emissions from kilns

Fugitive emissions from coal piles



GHG Type

- Non-biomass CO₂
- Biomass CO₂
- CH₄
- N₂O

- Non-biomass CO₂
- Biomass CO₂
- CH₄
- N₂O

Non-biomass CO₂

CH₄



Schedule C Biomass CO₂ and Thresholds

(S.6 - Reporting operations; Schedule C - Biomass exclusions)

| | Fossil fuel /process and non-Schedule C biomass CO₂ e emissions | Schedule C Biomass CO₂ emissions | Required to Report |
|-------------|---|--|---------------------------|
| Operation A | >10kt | >10kt | Yes |
| Operation B | <10kt | >10kt | No |

(Operation A would report Schedule C biomass along with its attributable emissions)



Core Requirements

- ✓ **Registration** of tombstone information by April 1, 2010
- ✓ **Quantification methods** prescribed for most sources and presented in the methodology manual
- ✓ **Alternative methodologies** can be used if emissions calculated using alternative methods are no greater than the lesser of 20,000 metric tons or 3% of total GHGs
- ✓ **Data Collection:** The operator must collect the data necessary to calculate emissions
- ✓ **Instrumentation** used to quantify emissions must be calibrated and meet methodology requirements



Alternative Parameter Measurement

(S.13-Methodologies for quantifying GHG emissions,)

- ✓ For 2010 only, alternative parameter measurement methodologies can be used:
 - ✓ If the necessary systems are not in place to use the prescribed methodology
 - ✓ And as long as the parameter is quantified in as accurate a manner as practicable
- ✓ A “parameter” means a physical property that is measured for the purpose of quantifying emissions
- ✓ Director approval required for use after March 31, 2010



Emissions Reports

(S. 5-Reporting GHG emissions,S.12-Content of reports)

- ✓ Electronic submission with tombstone information and:
 - ✓ GHG emissions by activity, source type, category of emissions (Schedule B), greenhouse gas, etc
 - ✓ Additional info. required for specific quantification methods
 - ✓ Historical data for any 2006-2009 year > 20,000 tonnes
 - ✓ List of non-attributable emission sources >100 tonnes
 - ✓ Identification of responsible persons
 - ✓ Signed certification
 - ✓ Linear facilities: emissions for individual linear facilities >10,000 tonnes and specific data if 1,000 to 10,000 tonnes



Verification

(Part 4, Sections 18-26)

- ✓ Third party verification for operations that emit over 25,000 tonnes CO₂e annually (exc. Schedule C biomass)
 - ✓ Historical 2006-2009 reports do not need to be verified.
 - ✓ Operators need to contract with an eligible verification body

- ✓ Reasonable level of assurance

- ✓ 5% materiality and qualitative assertion



Verification (Sections 18-26)

- ✓ Verification bodies must be accredited to ISO14065 (CARB verifiers allowed for 2010 and 2011)
- ✓ Verification process must follow ISO 14064-3
- ✓ Verification statement (detailed, prescribed content) must be submitted with the emissions report
- ✓ Verification deadline for 2010 and 2011 emissions reports is Sept. 1 of the following calendar year

Reporting Timeline for 2010

| | |
|-------------|--|
| January 1 | BEGIN COLLECTING EMISSIONS DATA Ensure data collection and documentation systems support compliance with regulatory requirements |
| February 1 | SUBMIT ALTERNATIVE PARAMETER MEASUREMENT REQUEST (IF NECESSARY) |
| February 28 | INITIAL FORECAST OF EMISSIONS Forecast emissions to determine if likely to be >10,000 tonnes |
| April 1 | REGISTER If forecast greater than 10,000 tonnes. Form will be on MOE webpage |

Reporting Timeline for 2011

| | |
|-------------|--|
| January 1 | BEGIN COMPILING EMISSIONS DATA FOR 2010 EMISSIONS REPORT CONTINUE COLLECTING DATA - 2011 EMISSIONS ENGAGE VERIFICATION BODY (IF REQUIRED) |
| March 31 | SUBMIT 2010 REPORT |
| September 1 | SUBMIT SUPPLEMENTARY REPORT WITH VERIFICATION STATEMENT |



▼ Reporting Regulation

- What's New
- ▶ About the Reporting Regulation
- ▶ Reporting Operations
- ▶ Verification

RESOURCES

- ➔ Emissions Estimator
- ➔ Methodology Manual
- ➔ Verification Manual
- ➔ Cap and Trade Act Mailing List

LEGISLATION

- ➔ *Greenhouse Gas Reduction (Cap and Trade) Act*
- ➔ Other Acts & Regulations
- ➔ Policy Intention Papers

Ministry of
Environment

Reporting Regulation – Greenhouse Gas Reduction (Cap and Trade) Act

Introduction

The [Reporting Regulation](#), under authority of the *Greenhouse Gas Reduction (Cap and Trade) Act*, was approved by Order of the Lieutenant Governor in Council on November 25, 2009. The regulation sets out the requirements for reporting operations within B.C. emitting 10,000 tonnes or more of carbon dioxide equivalent per year to report greenhouse gas emissions to the British Columbia Ministry of Environment. Those reporting operations with emissions of 25,000 tonnes or greater are required to have emissions reports verified by a third party.

Additional Information and Updates

In addition to the information provided on the information for [reporting operations](#) and [verification information](#) web pages, the ministry has prepared a [Methodology Manual](#) (PDF/888 KB), [Verification Manual](#) (PDF/300 KB) and [Emissions Estimator](#) (for the purpose of taking a first step in evaluating registration requirements).

The Ministry is presently developing additional guidance and information material to support understanding and implementation of the regulation. The Ministry is making [presentations](#) that provide an overview of the regulation and answers to [questions and answers](#) available.

If you have any questions regarding the Reporting Regulation please contact the Ministry of Environment at: dennis.paradine@gov.bc.ca

What's New

- » 2010 Alternative Measurement Methodology Approval
- » GHG Reporting Session, January 28, 2010

Verification
ManualMethodology
ManualEmissions
EstimatorAlternative Parameter
Measurement
Form

Topics on which we've been asked questions:

- ✓ Single site facilities - boundaries
- ✓ Linear facilities
 - ✓ what is included and excluded
 - ✓ ensuring efficient verification
- ✓ Contractor emissions
- ✓ On-road mobile equipment
- ✓ Alternative parameter measurement
- ✓ Registration process, including forecasts
- ✓ Stationary combustion metering and calibration
- ✓ Verification:
 - ✓ qualified professionals / independent peer reviewer
 - ✓ verification body as a legal “person”
 - ✓ January to March 2010 alternative parameter methods
 - ✓ templates



Need more information....

Reporting: Dennis.Paradine@gov.bc.ca or 250-387-0732

Verification: Christine.Woodhouse@gov.bc.ca or 250 387-7950

Submission of Alternative Parameter Measurement Forms:
ghgreporting@gov.bc.ca

See: <http://www.env.gov.bc.ca/epd/codes/ggrcta/reporting-regulation/index.htm> for more information