

### CleanBC Industrial Incentive Program Update

February 23, 2022

#### **Presentation Overview**

Context	<ul> <li>Background about CleanBC program for Industry</li> </ul>		
CIIP in a nutshell	<ul> <li>Benchmark and Eligibility Thresholds</li> <li>CIIP Program requirements</li> </ul>		
Highlights	• Highlights of 2021		
CIIP Applications Review	<ul> <li>CIIP applications review</li> <li>Most Common Mistakes</li> </ul>		
CIIP Application Process	<ul><li>Process Chart for the next CIIP Cycle</li><li>Timeline</li></ul>		
Looking forward	• CIIP Next Steps		
Questions?			



#### Context

- In Dec 2018, government announced the **CleanBC** plan to reduce climate pollution and build a low-carbon economy
- Includes **CleanBC Program for Industry (CPI)** with the following objective:
  - Enhancing British Columbia's competitive advantages while reducing our own GHG emissions intensity
- Two CPI Initiatives:
  - CleanBC Industrial Incentive Program (CIIP): incentive payments based on operations' emissions intensity compared to a world-leading performance benchmark
  - CleanBC Industry Fund (CIF): funding for industrial emissions reduction projects
- The program is funded by the carbon tax paid by industry above \$30/tonne

## **Program for Industry**

Incentive Payments

Reduction Projects Lower Emissions Investment from the fund helps reduce emissions – and operations with lower emissions receive incentive payments

Large Industrial Operations

cleanBC



Clean Industry Fund



# CIP Program Requirements

- Eligibility Criteria:
  - Must be a GGIRCA "reporting operation"
    - Emit 10,000+ tC02e, excl. Sched. C Biomass
    - $\odot$  Submit an emission report for the applicable reporting year
    - $\,\circ\,$  Must be in an eligible sector
  - Material non-compliance under GGIRCA could result in ineligibility or impact future payments under CIIP
- Must submit a CIIP application with all required additional information by program deadline
  - If applicable (emissions >25,000 tCO2e), must also submit verification statement and report, including for production



## **CIIP in a Nutshell**



## 2021 CIIP Program Year

- 459 applications from 75 operators received and processed (518 applications, 82 operators in 2020)
- Incentive payments calculated based on facility's performance against benchmarks and thresholds
- Budget breakdown for 3<sup>rd</sup> year of CPI:
  - 67% → CleanBC Industrial Incentive Program
  - 23%  $\rightarrow$  CleanBC Industry Fund

## 2021 CIIP Program Year cleanBC

- 75% of total reported industrial emissions
- CIIP payments of just over \$65M (\$16M less than 2020)
- Reconciliation of 2020 applications
- Assessment included the effect of non-material errors



## **Application Review**

Area of comments	2020	2021	Change
No. of applications	518	459	11%
Applications with no comment	94	182	<b>1</b> 94%
Total no. of comments	2387	516	<b>↓</b> 78%
Administration-related	206	116	44%
Emissions-related	587	148	75%
Fuel-related	1138	161	86%
Production-related	456	91	<b>80%</b>



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No. of Comments per Application



516 comments!

### **Common Mistakes**



- Legal name and BC Corporate Registry number do not align
- Difference in emissions reported to CIIP vs. SWRS
- Discrepancy between reported emissions and emissions allocated to the products
- Using incorrect emissions factor for purchased electricity and heat
- Not assigning the emissions from purchased electricity to the products
- Incorrect emissions allocation between the products in multi-product facilities
- Reporting venting and flaring emissions but not reporting the associated fuel usages
- Reported fuel usages not matching with the associated emissions
- Reporting the total venting flow rate, instead of pneumatic venting only

## Payment Reconciliation cleanBC

#### Why?

- SWRS reports updated after approval of CIIP applications
- New program and processes both to industry stakeholders and program staff



- Consistent tools and more rigorous processes developed in 2021
- Grant agreements allow for a reconciliation to occur as a corrective action

## Payment Reconciliation cleanBC

#### **Corrective Action**

- 36 operators were contacted for clarification on their 2020 applications; applications were revised and resubmitted
- Reconciliation amounts (overpayment/underpayment) for 100 facilities added as adjustment to 2021 incentive payments
- Reconciliation of previous year submissions is part of the CIIP process

## cleanBC cleanBC cleanBC

Improving the CIIP Web System and guidance materials to:

- Address any issues and minimize the possible sources of mistakes
- Provide further clarity on application requirements
- Reduce the application review period and number of communications necessary
- Increase the accuracy of the applications to confirm incentive payments
- Provide clarity on incentive payment calculation

#### **Application process**





## 2021 Cycle Timeline cleanBC



- 1. CIIP Web System registration opens in April; CAS confirms user access
- 2. CIIP Web System expected to open on May 24<sup>th</sup> and close on June 30th
  - Emissions information pre-filled from SWRS information
  - Submission of verification statement/report with the SWRS reports
- 3. CAS assesses CIIP applications and may ask clarifying questions
- 4. CIIP applications approved and grant agreements issued
- 5. Signed grant agreements received and payments distributed to applicants

#### **CIIP Next Steps**



- Updated guidance materials will be posted in early May
- CIIP workshop on May 10<sup>th</sup>
- Consultation with industry on additional benchmarking
  - Sold electricity, Oil and gas other, Petroleum storage
- Survey on CIIP program and web system application
- Questions, feedback and suggestions for improvement are always welcome! <u>GHGRegulator@gov.bc.ca</u>



#### **QUESTIONS?**



## Industrial GHG Emissions Reporting

February 23, 2022



#### **Presentation Overview**

- 2020 Industrial Emissions
- New Public Reporting Website
- New Electricity Emission Intensity Factor Methodology







#### **Industrial Reporters**





#### **Industrial Emissions**





#### **2020: Total Emissions**

#### **Excluding CO2 Bio**

**Including CO2 Bio** 





#### **Emissions by Source Category**





#### New Annual Public Reporting



Ministry of Environment and Climate Change Strategy Alberta

British Columbia

### **Purpose of Public Reporting**

- Make Industrial emissions accessible
- Expectation of government transparency
- Commitment of CleanBC
- Deliver value to users/stakeholders







Home > Environmental protection and sustainability > Climate Change > Data and inventories >

Provincial Inventory

#### Industrial facility GHG reporting

 Community energy and emissions inventory

#### Industrial facility greenhouse gas emissions

B.C. requires industrial facilities that emit 10,000 tonnes or more of carbon dioxide equivalent (CO<sub>2</sub>e) per year and electricity import operations to report their emissions to government, as per the <u>Greenhouse Gas Emission</u> <u>Reporting Regulation</u>.

Annual industrial GHG emission report summaries serve several important purposes, including:

- Increasing the accessibility of industrial emissions data
- Informing policy and actions to reduce B.C. emissions
- Informing the public about significant sources of emissions

Learn more about how emissions data is reported and verified.

#### Interactive industrial emissions data

#### Large B.C. Industrial Facilities



https://www2.gov.bc.ca/gov/content/environment/climate-change/data/industrial-facility-ghg

#### +ab|eau<sup>‡</sup>pub|ic

MIN Ministry of Environment and BRITISH Climate Change Strategy **COLUMBIA** 

#### Large BC Industry GHG Emissions by Sector







Ministry of Environment and Climate Change Strategy Year

2020

#### **Next Steps**

- Engagement to determine user needs
  - Industry
  - Public, NGOs, academic, financial sector
  - Intergovernmental, Indigenous community
- Renegotiation of SWRS Provincial Agreement
- Interested in providing input?
  - Survey
  - Email <u>GHGRegulator@gov.bc.ca</u>







#### New Electricity El Factor Methodology



#### **Electricity Emission Intensity Factor**

 For quantifying emissions from electricity which is not self-generated

- Integrated grid (tCO2e/GWh)
  - 2019 EEIF = 29.9
  - -2020 EEIF = 40.1
  - 2021 EEIF = est. 9-14



## Methodology Update

• Goal: to more accurately reflect the carbon intensity of electricity consumed in BC

- Methodology amended:
  - Net imports basis
    - New reporting requirements for EIOs
  - 4-year rolling average



#### **Additional Information**

- EEIF website & FAQ document
  - <u>https://www2.gov.bc.ca/gov/content/environment/climate-</u> <u>change/industry/reporting/quantify/electricity</u>
- GGIRCA Bulletin #022
  - <u>https://www2.gov.bc.ca/gov/content/environment/climate-</u> <u>change/industry/bulletins-legislation-guidance</u>
- Email <u>GHGRegulator@gov.bc.ca</u>



#### **Questions?**





Ministry of Environment and Climate Change Strategy

#### Greenhouse Gas Emission Reporting Regulation Compliance Program and Policy Updates

CleanBC Program for Industry Workshop February 23, 2022



#### Agenda

Compliance program updates

- Role of C&E
- Compliance Priorities
- Program Updates

**Regulatory policy changes** 

• Summary of recent regulatory amendments


### Role of C&E



Policy review and development





# **Compliance** Priorities

- Promoting compliance and due diligence
- Ensure complete and accurate reporting of industrial emissions
- Manage risks to implementation of CleanBC Program for Industry and Roadmap to 2030





## **COVID-19** Program Update



- Please follow current Public Health Orders, which may impact industrial operations and verification work in B.C.
- 2 policies in place that support operators and verification bodies impacted by COVID-19:
  - Virtual site visits (Bulletin 010)
  - Deadline extensions for submission of emission reports and verification statements (Bulletin 015)



# Virtual Site Visits

- Virtual site visits are allowed generally allowed if:
  - At least one of the site visits in the last two reporting periods was conducted in person
  - No significant changes have been made to a facility or their processes/ activities
- See Bulletin 010 on the BC Government website for details





### **Deadline Extensions**



- Emission reports are due on May 31 each year
- Industrial operators can request an extension if:
  - An in-person site visit cannot safely be conducted prior to the deadline, and
  - $\circ~$  They do not meet the criteria for a virtual site visit
- See Bulletin 015 on the BC Government website for details



# **CIIP: Product Data Verification**





# **CIIP: Product Data Verification**



Policy approach is consistent with the Regulation



VB must be accredited and comply with ISO 14064-3. Regulatory and CIIP verification work may be conducted at same time by same VB.



VB must conduct all procedures necessary to obtain reasonable level of assurance

- Site visits required, may be virtual if facility meets requirements
- Comprehensive data review, direct observations, interviews, etc.



#### All errors must be documented and require correction if:

- Correctable in reasonable amount of time at reasonable effort
- Result in misstatement > 0.1% of product qty.



#### Non-Reporter Outreach Program

- Clarified regulatory authority to require information from industrial operations that do not report
- C&E team contacted over 60 operations last year to confirm compliance
- We work collaboratively to review information collected by other Ministries





### Industrial GHG Reporting Program Update



#### Overview of amendments to the Greenhouse Gas Emission Reporting Regulation (GGERR)



# Reporting fugitive methane emissions from open pit coal mining

- Previously quantified "in accordance with best industry practices".
- Operators must now use the methodology described in the National Inventory Report.
- See GGIRCA Bulletin 016 on the BC Government website.

#### Emissions = Σ (EF x Coal)

#### Where:

EF = the emission factor for the type of coal in the table titled "Fugitive Emission Factors for Coal Mining" for surface mines in British Columbia in the National Inventory Report

- (a) in the most recent National Inventory Report, and
- (b) before the end of the applicable reporting period.

Coal = the amount of the type of coal extracted



### Reporting of on-site mobile fuel combustion emissions and fugitive coalbed methane

• Emissions from on-site mobile fuel combustion and fugitive coalbed methane are no longer "reporting-only emissions"

#### • 4 main impacts in the GGERR:

- Section 4 Attributable emissions
- Section 18 Supplementary reports (error correction requirements)
- Section 27 Verification obligation threshold
- Section 32 Materiality

The definition of "reporting-only emissions" has been changed to "carbon dioxide from biomass listed in Schedule C"

• See GGIRCA Bulletin 017 on the BC Government website.



# Updated fugitive emission factors for pneumatic devices in oil and gas operations

- New vent rates for pneumatic devices and retrofitted devices added to Schedule A of GGERR
- Applies to 2022 reporting period and beyond
- See GGIRCA Bulletin 018 on the BC Government website





# Requirement to report emissions from combustion of non-woody biomass

- Requirement was previously omitted from the GGERR
- Regulation has been updated to require reporting of this emission type from GSC
- See GGIRCA Bulletin 019 on the BC Government website

The GGERR has been amended to add "carbon dioxide from biomass not listed in Schedule C" to Column 4 of Item 1(a) in Schedule A.



# Emission report error correction requirements during the verification process

• A verification body must not provide a verification statement unless:

Any errors, omissions and misstatements in the emission report have been corrected if possible, in a reasonable amount of time at a reasonable effort

Those errors do not result in a net misstatement that exceeds the lesser of:

- 1,000 tonnes CO<sub>2</sub>e, not including reporting only emissions,
- 1% of the total emissions attributable to the reporting operation during the reporting period, not including reporting-only emissions, or
- An amount specified by the director that is less than the lesser of the amounts in subparagraphs noted above.

#### • See GGIRCA Bulletin 020 on the BC Government website.



# Transition to new versions of ISO standards

- VBs are not required to transition to new ISO standards until required to do so by their accreditation body
- If a VB receives approval to use the new standard prior to the transition deadline, the VB should use them
- See GGIRCA Bulletin 021 on the BC Government website.

Verification bodies should transition to using ISO 14064-3:2019 and ISO 14065:2020 by the deadline set by their accreditation body



# Requirement for non-reporting industrial operations to submit information

- If a non-reporting operation is suspected to meet the reporting threshold, information needed to verify compliance may be requested
- For example: copies of invoices, reports, or calculations relied on by the operation to forecast emissions
- See GGIRCA Bulletin 023 on the BC Government website.

Non-reporting industrial operations must submit records to the Director under GGIRCA, if requested to do



# For Additional Information

# Send questions or comments to the Compliance team at Industrial Reporting and Control:

GHGRegulator@gov.bc.ca







# B.C.'s Offset Program Update

### Annual Clean Growth Workshop February 23, 2022



# Agenda

- Brief outline of the B.C. Offset Program
- B.C.'s Offset Strategy in B.C.
- Proposed Offset Protocol Policy
- Next Steps
- Questions and Answers



### **B.C. Offset Program Overview**



BC's Carbon Offset Program supports:

- Additional GHG emission reductions and removals; and
- 2) Transition to a resilient, innovative, low-carbon economy that works for everyone.



## B.C.'s Legislative Framework for Offsets

Under GGIRCA (2016), Offset projects must meet approved protocol requirements and criteria established in the Greenhouse Gas Emission Control Regulation.

Offset units may be credited for **verified** project activities **located in B.C.** involving the:

- 1. Reduction of greenhouse gas (GHG) emissions into the atmosphere; and/or
- 2. **Removal** of GHG emissions from the atmosphere.





# B.C. Offsets under legislation

- B.C. offsets awarded for conservatively estimated and thirdparty verified carbon reductions and removals in B.C.
- Project start date must be 2014 or after
- Project plans must be developed using Director-approved offset protocols, third-party validated and submitted through the B.C. Carbon Registry
- Crediting periods:
  - Up to 10 years for emission reduction projects
  - Up to 25 years for sequestration projects.
- 100-year monitoring requirements for sequestration projects
- All transactions publicly available in the BC Carbon Registry



# **Current Status**

- Fuel Switch Protocol
- Forest Carbon Offset Protocol (under final review)
  - Afforestation and Reforestation
  - Conservation / Improved Forest Management
  - Avoided conversion
- Methane Management Protocol (under final review)
  - Landfill gas management
  - Organic waste diversion
  - Anaerobic digestion (wastewater, manure, other organics)
- Offset Protocol Policy (posted for public comments soon)





## B.C. Offset Project Workflow





# B.C. Annual Offset Supply (Pre-GGIRCA legacy projects)





## B.C. Offset Market Uptake





# **Offset Strategy**

At a high level, the B.C. Offset Program will:

- Tailor its offerings to meet the requirements of the voluntary market
- Focus on protocol types that align with provincial climate goals
- Empower project types that:
  - Advance Indigenous reconciliation,
  - Provide economic development opportunities,
  - Protect ecological biodiversity, and/or
  - Advance access or deployment of low-carbon technologies



# **OFFSET PROTOCOL POLICY (OPP)**



# Intro to OPP

- Outlines government policy on how B.C. offset protocols will be:
  - Identified and prioritized for development,
  - Developed,
  - Periodically reviewed, and
  - Amended or deactivated



# Identifying opportunities

Two pathways for identification:

- Routine scan of other jurisdictions, and
- Proposed by interested parties
  - Must clearly demonstrate how suggested protocol addresses:
    - Prioritization criteria, and
    - Regulatory requirements



# Prioritization for development

- Criteria:
  - Alignment with B.C.'s broad government priorities
  - Monitoring, reporting and verification (MRV) methodology readiness
  - Technological readiness
  - Potential scale of opportunity in B.C.
  - Marketability of offset units



# **Development process**

- Review of relevant technical documentation
- Regulatory alignment review
- Internal consultation for policy alignment
- Develop protocol for users
- Public Engagement
- Preparation of final document
- Legal Review
- Director approval and release



# **Review of Approved Protocols**

To assess continued consistency with:

- Regulatory requirements,
- The shared interests of the offset program and project owners,
- The scientific literature, and
- Quantification, verification and monitoring best practice



### Protocol Review Process & Outcomes

#### Three stage review:

- Review of relevant technical documentation
- Regulatory alignment review
- Internal government scan for policy alignment
- Outcomes:
- No action
- Deactivation
  - Permanent
  - Temporary (for amendments)



# Next Steps

- Public Engagement on the proposed OPP to be open soon
- Release Director-approved protocols:
  - Methane Management
  - Forest Carbon
- Continue the development process for identified protocol priorities:
  - Technological Carbon Capture and Storage
  - Reductions in the agricultural sector



# Thank you for your attention!

Resources

<u>https://www2.gov.bc.ca/gov/content/environment/cli</u> <u>mate-change/industry/offset-projects</u>

> Please direct all enquiries to <u>GHGRegulator@gov.bc.ca</u>

#### **Questions?**

