

# British Columbia's Draft Methane Management Offset Protocol

June 22, 2021

# Territorial Acknowledgement



**Signs of Lekwungen**

Artist: Butch Dick

Outside the Royal BC Museum, Victoria  
British Columbia

# Agenda

- Background
- Overview of draft MMOP
- Next steps

# Staff

- **Adria Fradley**, Executive Director, Clean Growth Branch ([adria.fradley@gov.bc.ca](mailto:adria.fradley@gov.bc.ca)).
- **Chris Fleming**, Acting Director, Industrial Reporting and Control ([chris.s.fleming@gov.bc.ca](mailto:chris.s.fleming@gov.bc.ca)).
- **Andrea Orellana**, Unit Head, Emissions Mitigation ([andrea.orellana@gov.bc.ca](mailto:andrea.orellana@gov.bc.ca)).
- **Jordan Kummerfield**, Senior Policy Analyst ([jordan.kummerfield@gov.bc.ca](mailto:jordan.kummerfield@gov.bc.ca)).
- **Warren Greeves**, Senior Economic Advisor, ([warren.greeves@gov.bc.ca](mailto:warren.greeves@gov.bc.ca)).

General contact: [GHGRegulator@gov.bc.ca](mailto:GHGRegulator@gov.bc.ca)

Background

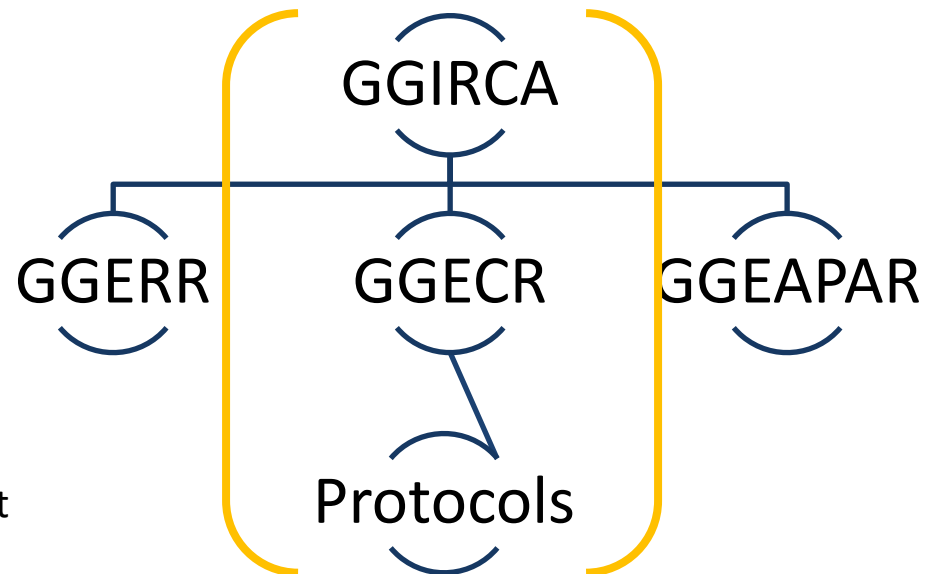
# **B.C.'S OFFSET PROGRAM**

# B.C.'s Legislative Framework for Offsets

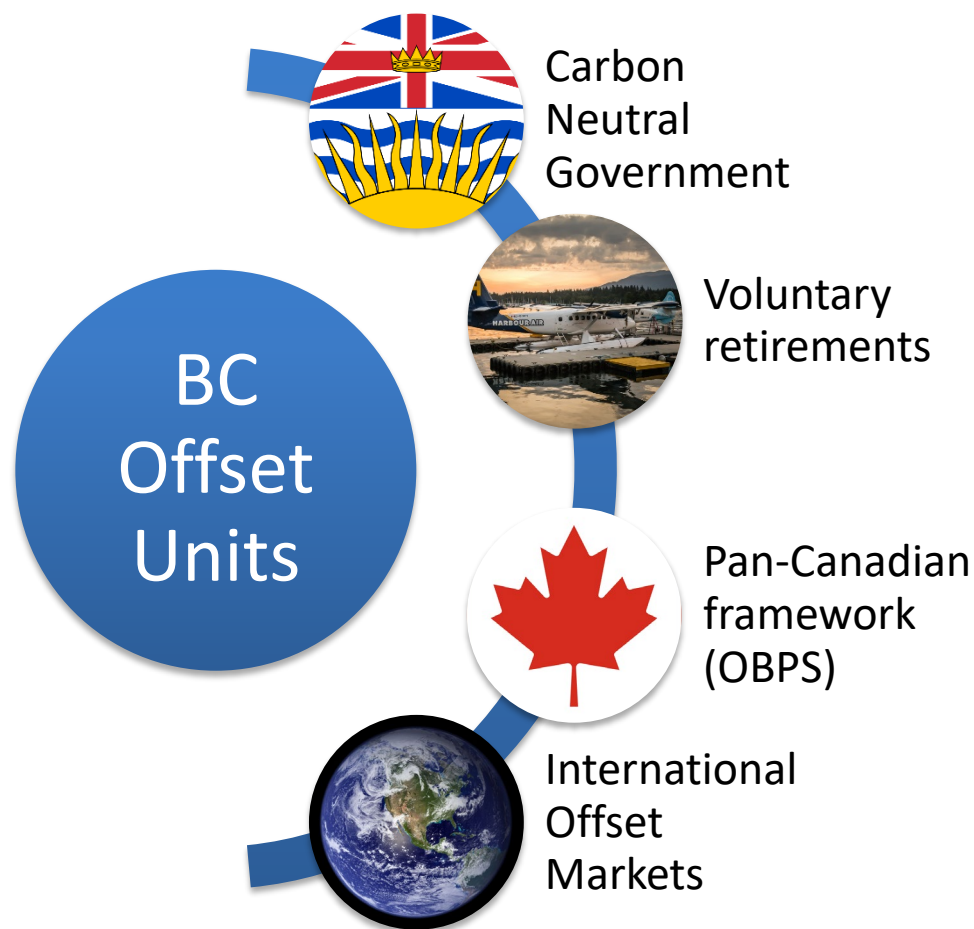
Under GGIRCA (2016), Offset projects **must meet approved protocol requirements and criteria established in the Greenhouse Gas Emission Control Regulation.**

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.



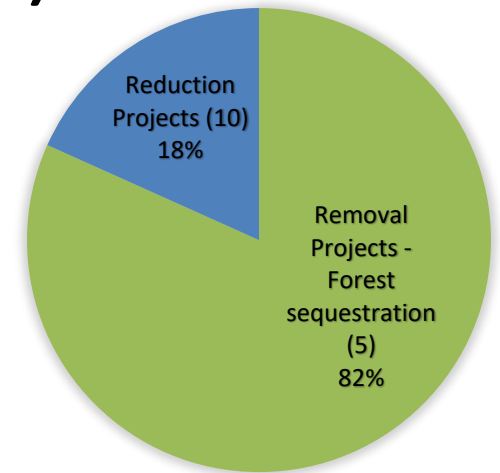
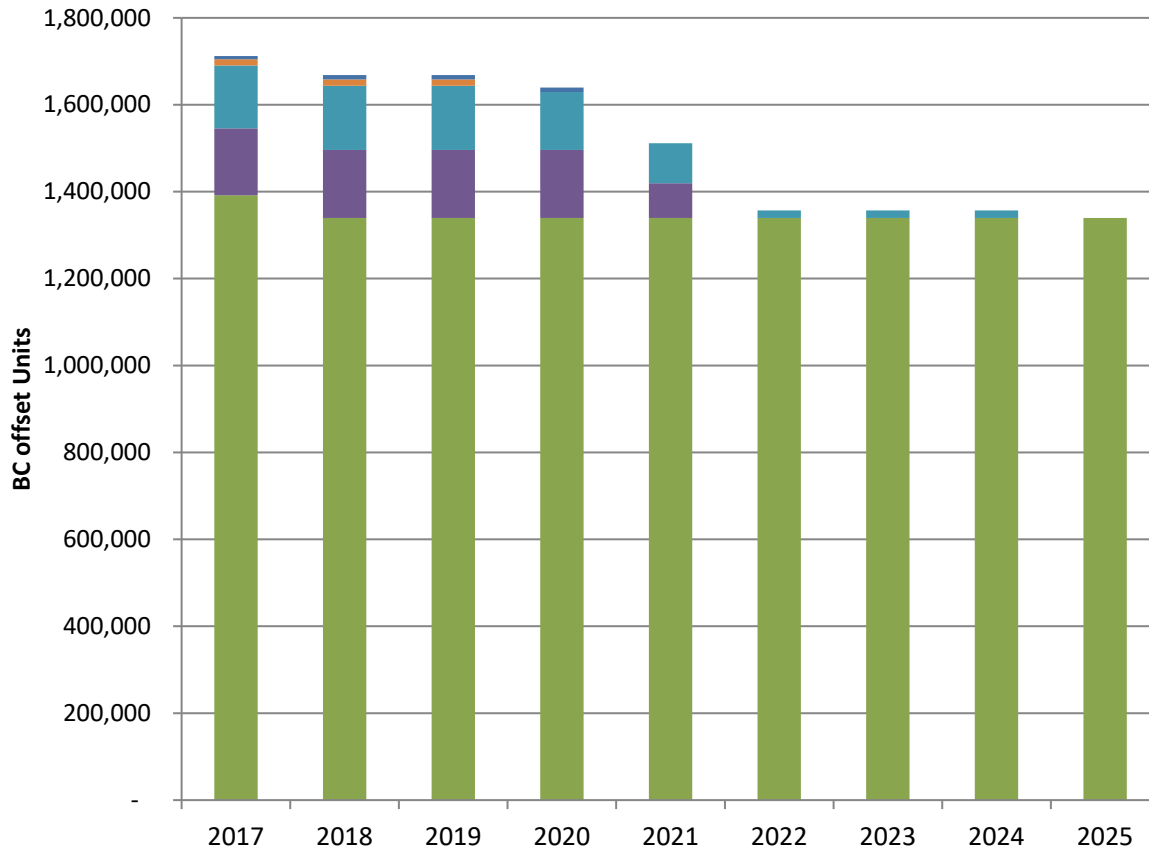
# B.C. Offset Program Overview



BC's Carbon Offset Program supports:

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

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



- Landfill Gas Management (1)
- Fuel Switch - Biomass Gasification (1)
- Fuel Switch - Biomass in Forestry (6)
- Fuel Switch - Electrification O&G (3)
- Forest Sequestration and Storage (5)



# Current Status

- **Fuel Switch Protocol**
- **Forest Carbon Offset Protocol** (public consultation finished)
  - Afforestation and Reforestation
  - Conservation / Improved Forest Management
  - Avoided conversion
- **Methane Management Protocol** (currently out for feedback)
  - Landfill gas management
  - Organic waste diversion
  - Anaerobic digestion (wastewater, manure, other organics)
- **Offset Guidance** (posted soon)



Technical Briefing

# OVERVIEW OF MMOP

# Intro to MMOP

- MMOP will enable credit generation from reducing the release of methane for organic waste decomposition.
- MMOP supports increased production of biomethane and/or renewable natural gas in B.C.
- Eligible project types:
  - Landfill gas collection
  - Organic waste diversion
  - Anaerobic digestion of waste from
    - Organics diverted from landfill
    - Wastewater treatment
    - Manure management

# MMOP Walkthrough

1. Guidance
2. Definitions and Abbreviations
3. Eligibility
  - 3.4 Demonstrating Additionality
4. Project Boundary
5. Baseline Scenario Determination
6. Sources, Sinks and Reservoirs (SSRs)
7. Quantification of Emissions Reduction
8. Project Reduction Estimates
9. Data Collection & Monitoring
10. Reference Materials

# 1. Guidance

- General guidance on the use of the protocol
- Outlines possible interactions with existing B.C. policy and programs
- Highlights the responsibilities of project proponent regarding:
  - Assumptions made in Project Plan
  - Selection of qualified Validation Body

## 2. Definitions and Abbrev.

- Explains how terms are used in MMOP
- Lists the equations and tables for reference
  - Each is cross referenced within the document
  - Clicking on a text reference will direct you to the corresponding item within the document

# 3. Eligibility

- Provides eligibility criteria for each project type:
  - Defines project activities
  - Eligible sources of project reductions
  - Outlines criteria associated with project facility or system

# 3. Eligibility (con't)

- Start date
  - Up to five years prior to the posting date of the Protocol [GGIRCA 10(6)]
- Crediting Period
  - Up to 10 year increments; 20 years total
- Reporting Period
  - At least every three years after initial report covering initial 12-month period
  - Organized by 12-month periods



## 3.4 Demonstrating Additionality

- Projects must demonstrate:
  - Regulatory surplus
  - Exclusive ownership of reductions
  - Actions not counted under another program
- Assertions must be included in the Project Plan and for each period covered by a Project Report

## 4. Project Boundary

- Outlines requirements for identifying the location of the project activities for both Stand Alone and Program of Activities projects
- Includes specific requirements for each project type regarding:
  - Identifying the sources of waste, and
  - Describing the devices or technologies employed

# 5. Baseline Scenario Determination

## The Baseline Scenario:

- Describes the activities on the Project Site and quantity of emissions that would have occurred from selected sources had the Project not been implemented
- Determined using a Project-Specific assessment of Baseline Scenario candidates or set using a pre-established Performance Standard depending on the project type

## 6. Sources, Sinks and Reservoirs (SSRs)

- Provides list of required SSRs that must be accounted for in Project Plan for each project type
- No sinks or reservoirs covered under MMOP
- Biogenic emissions are excluded
- No credits will be issued for reductions in fuel or energy use

# 7. Quantification of Emissions Reduction

- Provides equations to quantify the emissions associated with the relevant SSRs for each project type for both the Baseline and Project scenarios

*Project Reductions = Baseline Emissions – Project Emissions*

- Section 8 - Outlines requirements around projecting estimated Project Reductions over the life of the project

# 9. Data Collection & Monitoring

- Outlines the data or parameters that must be accounted for each project type at:
  - Validation (i.e. – before the project)
  - During the Crediting Period
- No monitoring is required after crediting period

# 10. Reference Materials

Includes:

- Data tables and references,
- Methods for data substitution, and
- Using proxies in cases of missing data

MMOP 60-day comment period

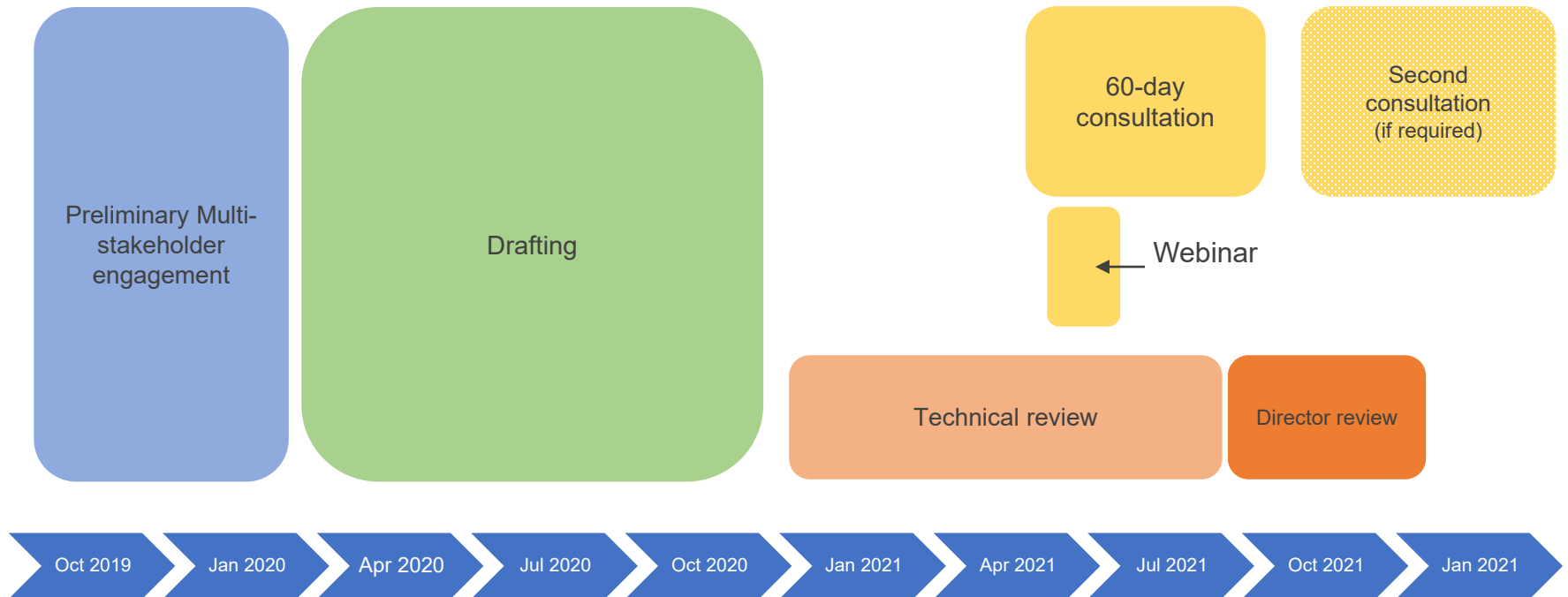
# **NEXT STEPS IN ENGAGEMENT**



# Providing Feedback

- For more information and to access the Protocol or Discussion Document, please visit our consultation website at <https://www2.gov.bc.ca/gov/content/environment/climate-change/industry/offset-projects/consultation>
- Consultation closes on August 3, 2021 (midnight)
- Please submit written feedback by email to [GHGRegulator@gov.bc.ca](mailto:GHGRegulator@gov.bc.ca) using subject line: “MMOP Feedback”
- Ministry of Environment and Climate Change Strategy Representatives are available to meet on request

# Protocol Development Timeline



# Thank you for your attendance!

## Resources

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

Please direct all enquiries to  
[GHGRegulator@gov.bc.ca](mailto:GHGRegulator@gov.bc.ca)

## Questions?