



cleanBC

our nature. our power. **our future.**

CleanBC Communities Fund (CCF) GHG Methodology

February 22, 2022

TERRITORIAL ACKNOWLEDGMENT



WEBINARS



Introductory Webinar

- **Posted to website** - Learn more about CCF program eligibility, objectives, application requirements, and tips from program staff and previously successful applicants to help strengthen your application submission.

GHG Methodology Webinar

- **February 22, 2022, 2:00pm – 3:00pm** - Gain a deeper understanding of the greenhouse gas (GHG) assessment process and evaluation criteria, learn about best practices for generating baseline and project emissions scenarios, and a chance for Q&A.

Innovation and Resilience Webinar

- **March 2, 2022 - 11:00am – Noon** - Learn how you can integrate innovation and climate resilience into your CCF application submission.

Recordings and slides will be posted here: cleanbc.gov.bc.ca/communitiesfund

- Investing in Canada Infrastructure Program (ICIP) \$3.9B Federal/Provincial ICIP Agreement announced Apr 2, 2018
- Green Infrastructure - Climate Change Mitigation sub-stream
- [Clean Communities Fund \(CCF\)](#) contributes to Canada's target of GHG reductions
- Infrastructure that creates economic growth; sustains well-paying jobs; builds inclusive communities; supports a low-carbon, green economy
- Intake 3: \$134 million (combined federal and provincial funding)
 - Opened Jan 26, 2022 and closes May 25, 2022

Must meet one program outcome:

1. Increased capacity to manage renewable energy
2. Increased access to clean energy transportation
3. Increased energy efficiency of buildings
4. Increased generation of clean energy

Projects must also:

- Support public infrastructure, defined as tangible capital assets primarily for public use and benefit



CCF INTAKES

- Intake 1 (2018-2019):
 - Up to \$63 million combined Federal/Provincial funding
- Intake 2 (2020):
 - Up to \$47 million combined
- Intake 3 (2022):
 - Up to \$134 million combined
 - Opened Jan 26, 2022 and closes May 25, 2022
- Search for other funding opportunities in new [BC Community Climate Funding Guide](#)



CCF – INTAKE 3 TIMELINES



- Request BCeID access to the LGIS application portal by May 4, 2022
- Intake 3 closes May 25, 2022 at 3pm
- Shortlisted projects (confidential Provincial approval in principle) estimated late 2022
- Final Federal approval estimated late summer 2023
- Projects must not start construction or tender contracts until final federal approval is received.
- All projects must be substantially completed by March 31, 2027

CLIMATE LENS & GHG PRELIMINARY ASSESSMENT



- Why implement a Climate Lens?
 - Provides insight into the climate impacts of individual projects;
 - Encourages improved choices by project planners; and
 - Consistent with the Pan-Canadian Framework for Clean Growth and Climate Change which included a commitment to reduce Canada's GHG emissions by 40-45% below 2005 levels by 2030
- Preliminary GHG Assessment (submitted at time of application) vs. Climate Lens (completed prior to Federal approval)
- [New Climate Lens General Guidance \(2021\)](#)

COST & QUALIFIED PROFESSIONALS



- The costs of undertaking assessment(s) will be deemed eligible for all projects approved for federal funding
- Be sure to include costs of climate lens assessments into application Detailed Cost Estimates
- It is the Applicant's responsibility to ensure that the Climate Lens is completed by someone with appropriate qualifications and knowledge of the project
- If applicant uses own-force labour for Climate Lens, these costs are not eligible for reimbursement

GHG QUANTIFICATION APPROACH



- Measures the anticipated GHG emissions impact of an infrastructure project
- 1) Boundary of the assessment – time and space
 - 2) Greenhouse gases considered – primarily CH₄, N₂O and CO₂
 - 3) Emission scopes – direct and indirect
 - 4) Data collection and calculation procedures – data sources and analysis
 - 5) Exclusions from the assessment – what was omitted and why
 - 6) Assumptions – underlying assumptions used in the absence of data

KEY PRINCIPLES FOR CALCULATING GHG EMISSIONS



ISO-14064-2 Principles for Quantification, Monitoring and Reporting of GHG Reductions or Removal Enhancements

Relevance – Use the most appropriate data and methods

Completeness – Provide all relevant emissions and removals

Consistency – Meaningful comparisons

Accuracy – Minimize uncertainty

Transparency – Everything explained

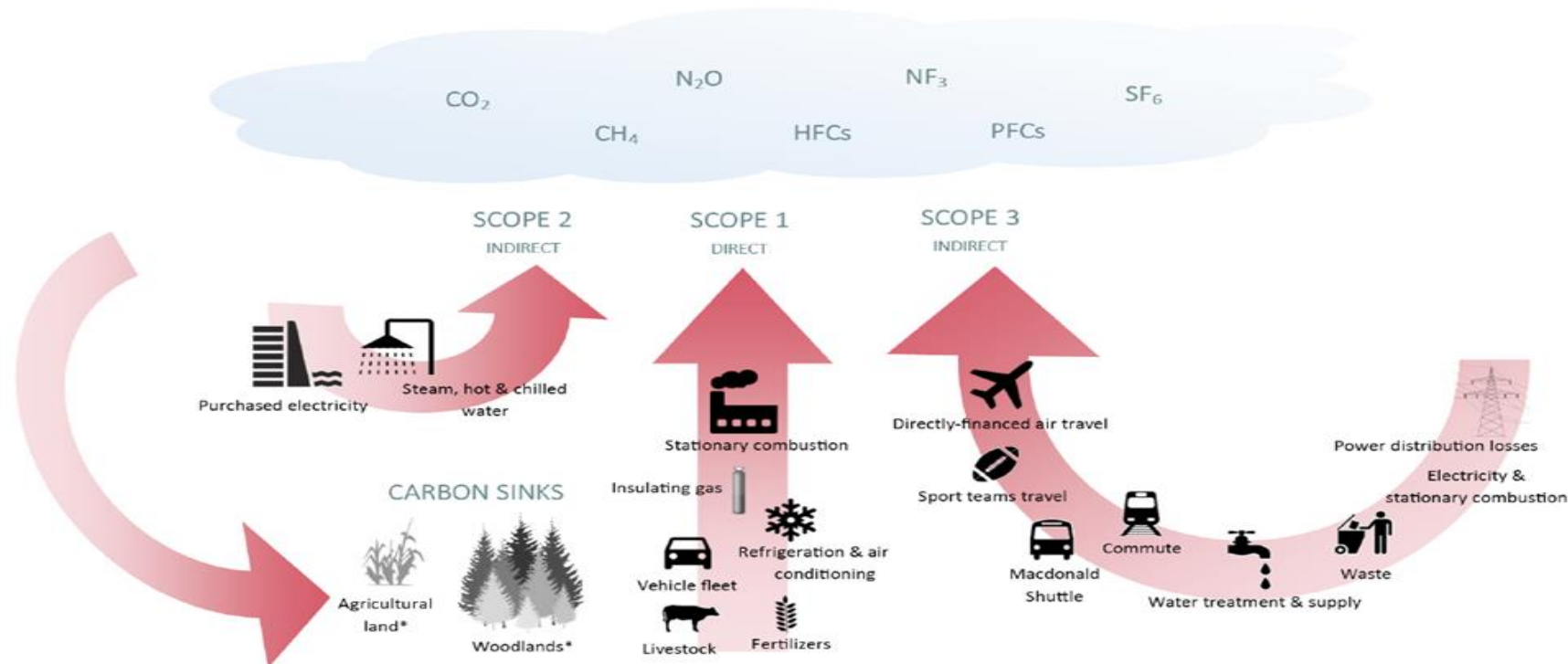
Conservativeness – Err on the side of underestimating potential reductions

For more information, refer to: [GHG Calculation Methodology](#)

EXAMPLE FROM CCF WEBSITE

[GHG Preliminary Assessment Example](#) - Fuel switching project:

- Start date and lifespan, location, identification of baseline and project source, sinks and reservoirs
- GHG gases included and calculated as CO₂e
- Scope 1 (direct), 2 (indirect electricity) and 3 inclusions (other indirect)



EXAMPLE FROM CCF WEBSITE CONT'D...



Fuel switching project:

- Emissions from baseline and project.
 - Reductions in 2030 and over the lifetime.
 - Everything done with clearly defined equations
- Exclusions outlined by individual source, sink and reservoir
- Assumptions made by calculation

GHG Mitigation Assessment (all GHGs should be entered in tonnes of CO ₂ equivalent)					
Expected lifespan of the asset		32 years	Indicate the year in which the expected lifespan of the asset begins		2019
2030 GHG Results			Lifetime GHG Results		
Baseline scenario emissions, in 2030		153 tCO ₂ e	Baseline scenario emissions, lifetime (cumulative)		4,606 tCO ₂ e
Estimated project emissions, in 2030		6.7 tCO ₂ e	Estimated project emissions, Lifetime (cumulative)		200 tCO ₂ e
Net emissions	REDUCTION or INCREASE	146.3 tCO ₂ e	Net emissions	REDUCTION or INCREASE	4,406 tCO ₂ e

APPLICATION TIPS

1. Preliminary GHG Assessment = Very Important! Sign up for [webinar!](#)
2. Use an Appendix (Excel) to Show Calculations
3. Backup your Numbers with References
 - Review the [Program Guide](#), [GHG Calculation Methodology](#), [GHG Preliminary Assessment Example](#)
 - [2020 BC Methodological Guidance for Quantifying Greenhouse Gas Emissions](#) - Emission factors, energy densities for fossil fuels, and global warming potentials
4. Include cost for Climate Lens in "Detailed Cost Estimate"
5. Demonstrate how project will contribute to community resilience

CONTACT US



- Brief description of infrastructure: what you are building and why?
- What are projected greenhouse gas (GHG) reductions?
- Partnerships with local governments and Indigenous Communities?
- High-level project costs
- Rough timeline (start and completion dates)
- What are your specific issues and questions?

Please email questions about your project to: claire.yick@gov.bc.ca

QUESTIONS?

