



cleanBC

CLIMATE  
LEADERSHIP  
SYMPOSIUM

Public Sector and Local  
Government Action



# CORPORATE AND COMMUNITY- WIDE EMISSIONS SESSION

Climate Action Secretariat  
Ministry of Environment and Climate Change Strategy

October 19, 2023



CleanBC  
Roadmap to 2030

# TOPICS

Corporate Inventories

Community-Wide Inventories

Community Energy and Emissions Inventory (CEEI) and CEEI Database Project Update

Tract and Neighbourhood Data Modelling (TaNDM)

LGCAP Data and Power BI Model

Breakout Sessions

# CORPORATE EMISSIONS INVENTORIES

An assessment of an organization's greenhouse gas emissions that occur within a defined boundary and within a defined period

Supports:

- Climate leadership
- Emissions reductions and cost savings
- Climate lens
- Environmental Social and Governance (ESG) reporting

# BOUNDARIES AND EMISSIONS SOURCES

Traditional services framework: Scope 1 and Scope 2 emission sources for local government and Modern Treaty Nations

- Administration and governance
- Drinking water, stormwater and wastewater
- Solid waste collection, transportation and diversion
- Roads and traffic operations
- Arts, recreational and cultural services
- Fire protection

# CONTRACTED SERVICES

- In 2022, 10% of corporate inventories were associated with contracted services
- We want apples to apples comparisons over years
- Shifting from estimates to actual fuel consumption data



# CARBON NEUTRALITY

Carbon neutral refers to a jurisdiction or organization achieving a state of no net greenhouse gas emissions being released into the atmosphere (e.g., reducing emissions as far as practical and purchasing offsets or other similar mechanisms).



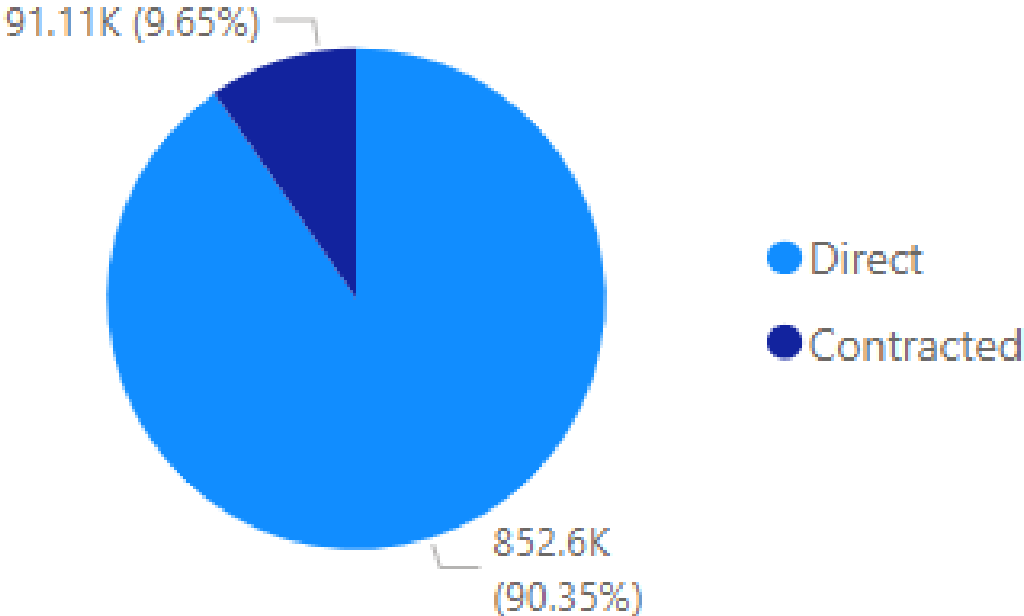
# OVERVIEW

Corporate Emissions Reporting

104✓

Previous Year: 52 (+100%)

2022 Corporate Emissions in tCO2e





# WHAT WE HEARD – HIGHLIGHTS

- Capacity and resourcing challenges
- Flexible scope – protocol agnostic
- Data collection and validation challenges
- Reporting system improvements:
  - Automation
  - Visualisation and analysis
  - Tracking progress



# RESPONSE

Continuous  
Program  
Improvements

One-on-One  
Support

Networking and  
Knowledge  
Sharing

# PROPOSED PROGRAM CHANGES

Corporate reporting population threshold (5000)

Armstrong, Castlegar, Chetwynd, Creston, Dawson Creek, Duncan, Fernie, Highlands, Invermere, Kent, Kimberly, Ladysmith, Merritt, Metchosin, Nelson, North Saanich, Oliver, Osoyoos, Parksville, Peachland, Powell River, Prince Rupert, Qualicum Beach, Quesnel, Revelstoke, Sechelt District, Sidney, Smithers, Sooke, Spallumcheen, Summerland, Terrace, Trail, View Royal, Whistler, Williams Lake, ACRD, KBRD, qathet RD, SLRD, Strathcona RD

Protocol agnostic scope for LGCAP

# Corporate Reporting Community of Practice

The purpose of the Community of Practice is to:

1. help build local government staff technical expertise in corporate inventory development
2. bring together local government staff to learn from one another
3. collect input on how the Province can better support corporate measurement activities and make improvements to program tools and resources



# COMMUNITY-WIDE EMISSIONS INVENTORIES

An assessment of all domestic anthropogenic emissions occurring in a jurisdiction's boundary over a defined period

# COMMUNITY ENERGY AND EMISSIONS INVENTORY

- Buildings, Transportation and Waste
- Common monitoring and reporting system at the local government-level
- Critical input for GHG targets, energy policies and actions



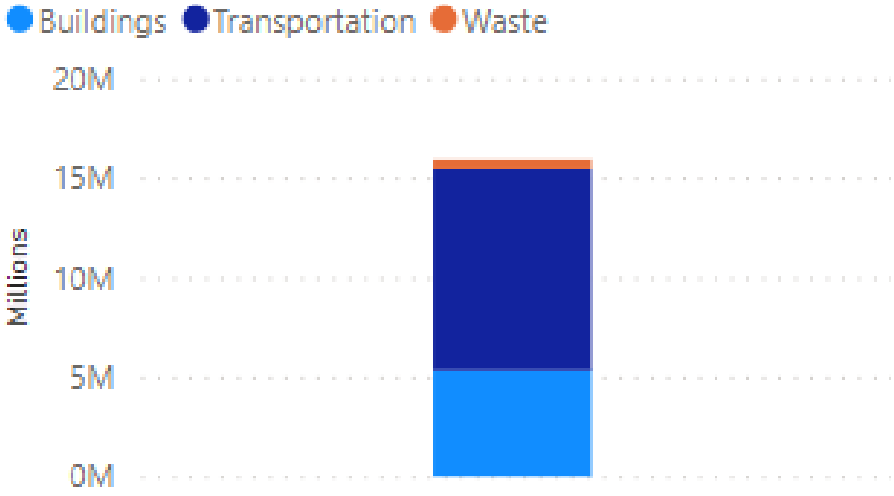
# OVERVIEW

**Community-Wide Emissions Reporting**

**8!**

Previous Year: 26 (-69.23%)

2022 Community-Wide Emissions in tCO2e



# CEEI Update

## 2021 Inventory

Buildings Data

Waste Data

Transportation Data



## 2022 and Beyond

Further Sectoral Coverage

Supporting Indicators



# CEEI Database

- More timely
- More accurate
- More automated
- Analysis, visualisation and communication



# TRACT AND NEIGHBOURHOOD DATA MODELLING (TANDM)

- TaNDM aims to improve the structure, level of geography and quality of the buildings CEEI
- The inventory for Kelowna, BC will develop and demonstrate:
  - Inventory reports by more granular building types including BC Building Code categories, Part 3 and 9 buildings and vintages
  - Spatially disaggregated reporting by neighbourhood
  - A validation method comparing measured utility data against modelled data for residential dwellings to assess model accuracy

# LGCAP Survey Results - B.C. Overview

Action	Status
Climate action plans	97 communities (18% increase from first year of program)
Net-zero commitments	42 communities
Climate lens application	25 communities
Community-wide GHG emissions	8 communities (69% decrease from 2021)
Corporate emissions reporting	104 communities (100% increase from 2021)
Funding put into reserve	\$14.225 million
Funding community-wide initiatives	\$0.482 million invested
Funding transportation initiatives	\$1.276 million invested
Funding buildings initiatives	\$1.868 million invested
Risk and vulnerability assessments	79 communities (30% increase from 2021)