

UPDATE
July 8, 2022

**Cariboo
Regional District**

Rob van Adrichem
Director, External Relations



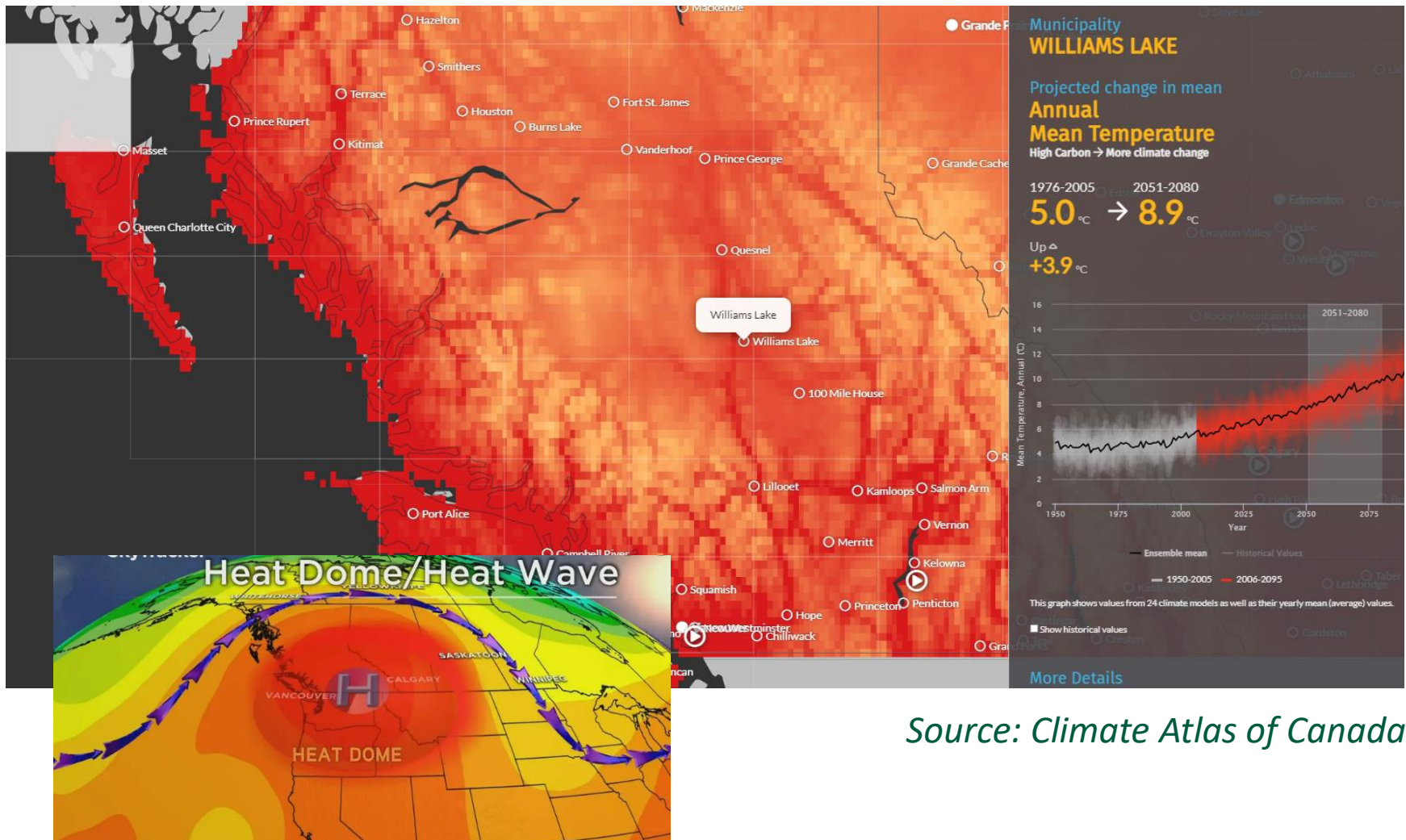
Community Energy
Association

Today's presentation:

- Our regional climate and emissions context
- What/who is CEA and what are we doing to reduce GHG emissions?
 - Energy Step Code
 - Charge North
 - Networks
- Discussion of needs, ideas, and opportunities. Next steps?

Collaborating for Climate Action.

The Issue



Source: Climate Atlas of Canada

In Northern BC:

- Geographic realities
- Some current solutions may not be relevant to our region
- Low levels of government capacity

Emissions:

- **Northern BC:** 2.97 million tonnes CO₂e
- 9.8% of BC's total, with 6.6% of the population

Source: Provincial GHG inventory and BC Community Energy and Emissions Inventory

CRD Regional Emissions (not including industry):

- 554,000 tonnes CO₂e
- \$300 million in energy spend annually

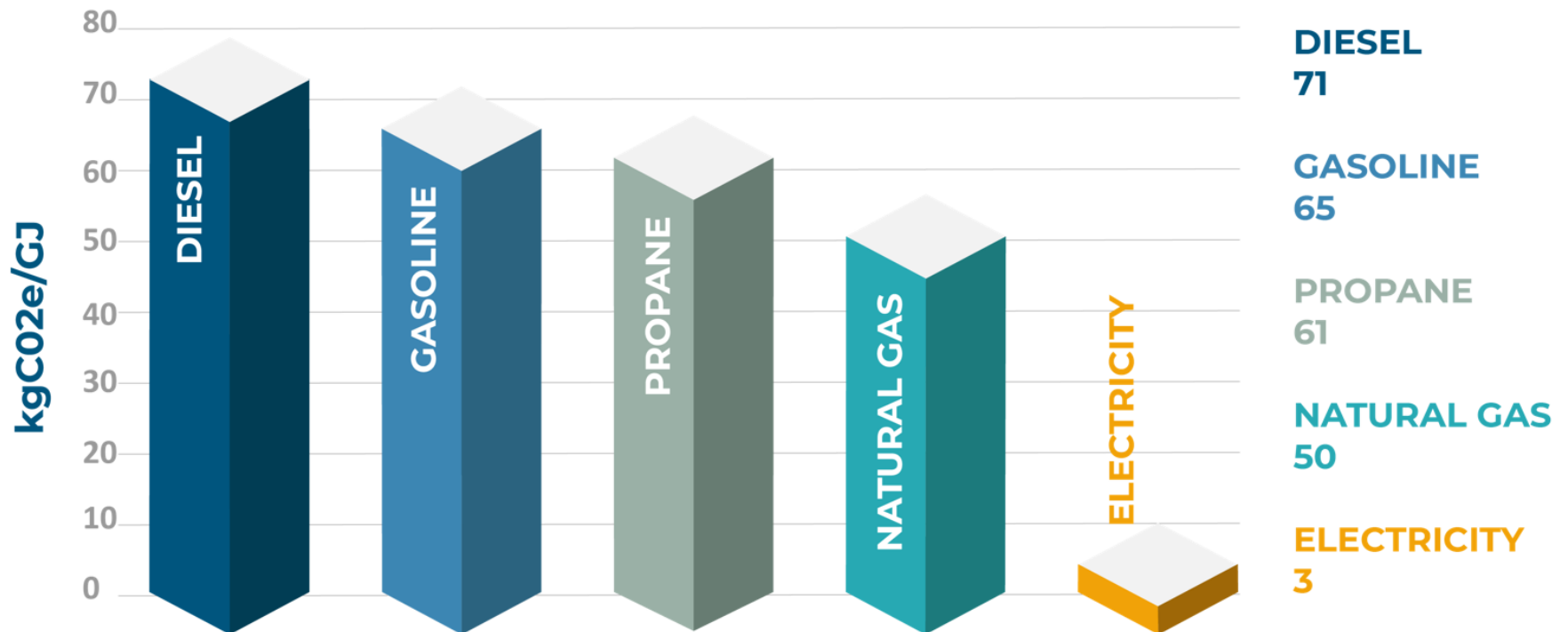
Distribution of Emissions

| | Buildings | Transportation | Waste |
|----------------|-----------|----------------|-------|
| 100 Mile House | 33% | 65% | 2% |
| Quesnel | 39% | 58% | 3% |
| Wells | 51% | 44% | 5% |
| Williams Lake | 33% | 65% | 2% |

All data sources: Provincial GHG inventory and BC Community Energy and Emissions Inventory for 2017

Emissions

Emission Factors of End Use Fuels in BC



Emissions



Local Government Relative Influence over GHG Emissions

High ← → Low

Municipal infrastructure,
buildings and fleet

Transportation network
Land use patterns
Solid waste
Building efficiency
standards

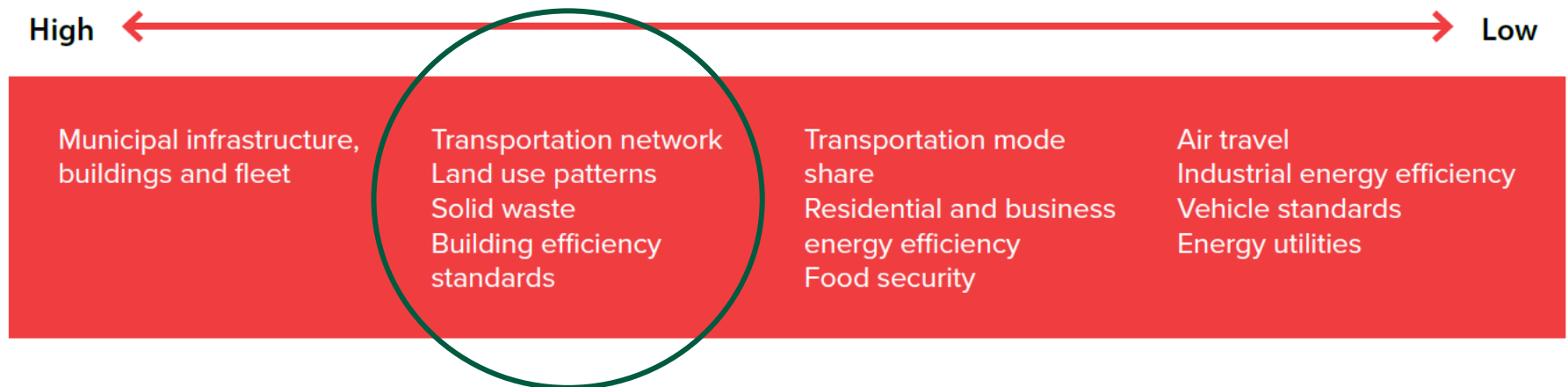
Transportation mode
share
Residential and business
energy efficiency
Food security

Air travel
Industrial energy efficiency
Vehicle standards
Energy utilities

Emissions



Local Government Relative Influence over GHG Emissions



**Two areas of influence:
EV charging and new
buildings.**

New Homes



Building a Legacy North:

- A partnership with CHBA Northern BC to provide training about the Energy Step Code for builders and local governments.
- To date: more than a dozen webinars and 1000+ registrations:
 - Working with Energy Advisors
 - Residential solar
 - Cold climate heat pumps
 - Airtightness and enclosures
- Case Studies
- Building assembly demos
- Dream Home videos
- Step Up to Step Code Week



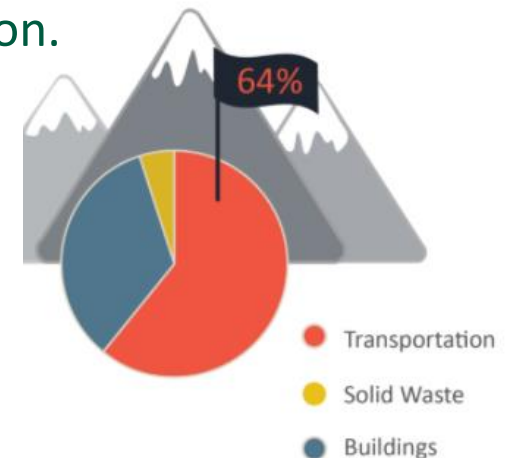
Charge North



Electric Vehicle Charging Network:

- Up to 58 charging stations
- along 2800km of highways

Rural regions have a high percentage of local greenhouse gas emissions from transportation.



About CEA



CEA is the only non-profit in BC focused exclusively on supporting local governments and indigenous communities on **CLIMATE** and **ENERGY** activities.



CEA Members



CEA Members are recognized as leaders in driving climate action in BC and are among the province's most driven advocates for inspiring climate solutions.

PUBLIC SECTOR

- BC Hydro
- Federation of Canadian Municipalities
- University of British Columbia
- BC Transit
- Province of BC

PRIVATE SECTOR

- SES Consulting
- Chastity Davis Consulting
- University of British Columbia
- FLO/AddEnergie
- FortisBC

ASSOCIATIONS & FOUNDATIONS

- Engineers and Geoscientists BC
- Urban Development Institute
- Planning Institute of BC
- Union of BC Municipalities
- Real Estate Foundation of BC



CEA Expertise



OUR STAFF

CEA staff are located around BC and have diverse experience in the complex, technical solutions to climate change and translating them into action for communities.



By topic, for local government staff:

- Electric Vehicles
- Energy Step Code (including a Northern BC group)
- Building Retrofits
- Embodied Emissions – starting this month

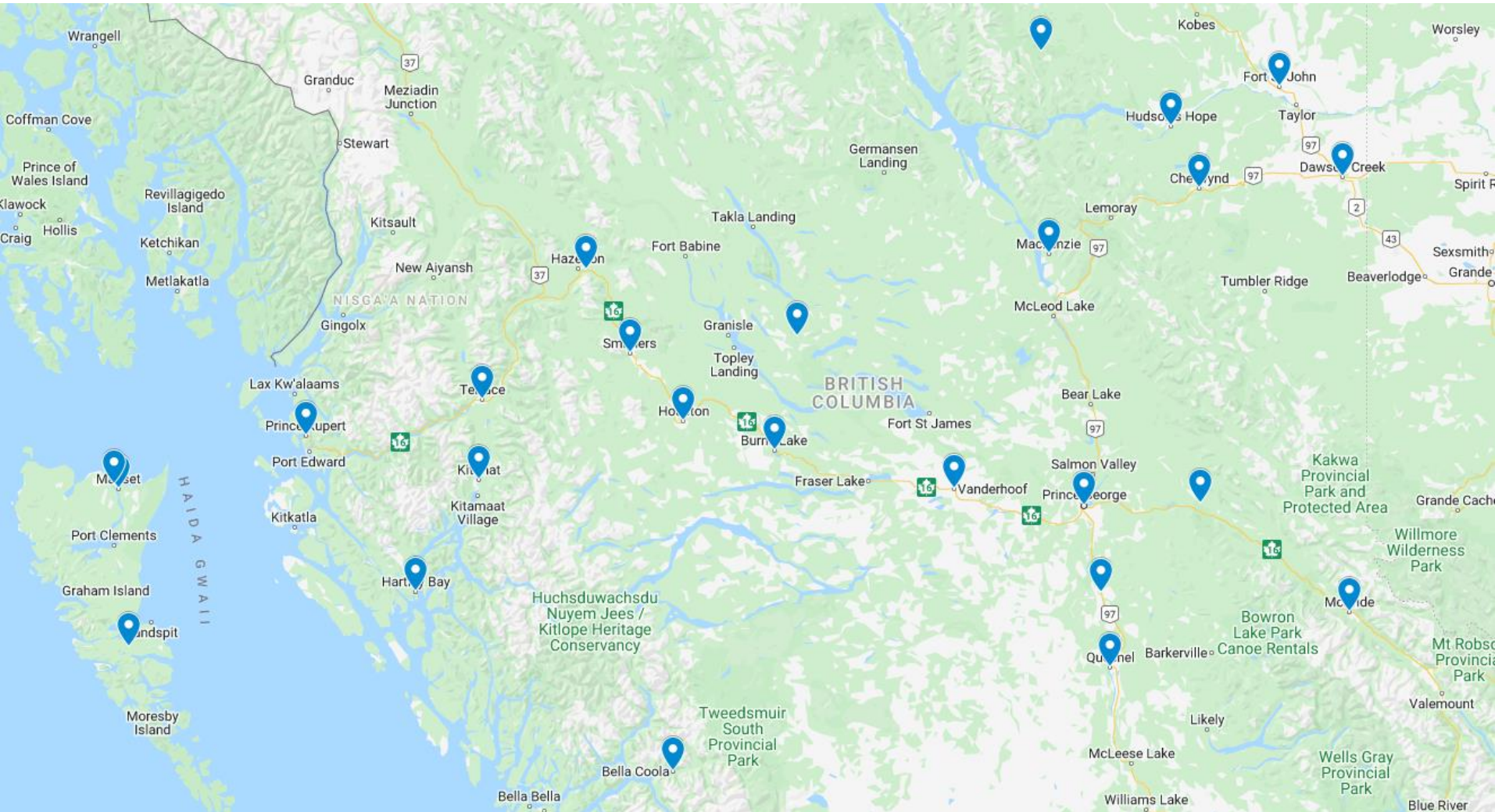
For elected officials:

- BC Municipal Climate Leadership Council (BCMCLC)

By region:

- Southern Interior (Thompson-Okanagan) – launched in June
- Northern BC – launched in April
- Vancouver Island – soon

Northern Network



Next Steps



Some Future Opportunities:

- New/additional Government of BC funding for local climate action: communityenergy.ca/lgcap
- Establishment of the Northern Network and advancing local/regional priorities together with business and industry, education and research, and health.
- Retrofit Assist – retrofitassist.ca
- Charge North roll-out, increased EV awareness.
- Bioeconomy, hydrogen, and renewable gas.

Collaboration is the way to overcome our challenges ...and end up with better solutions than if we worked alone.

Thank you



Rob van Adrichem

rvanadrichem@communityenergy.bc.ca

www.communityenergy.ca