

Future Energy Landscape



Affordable

Abundant

Clean

Transportable

Energy Dense

Reliable / Resilient





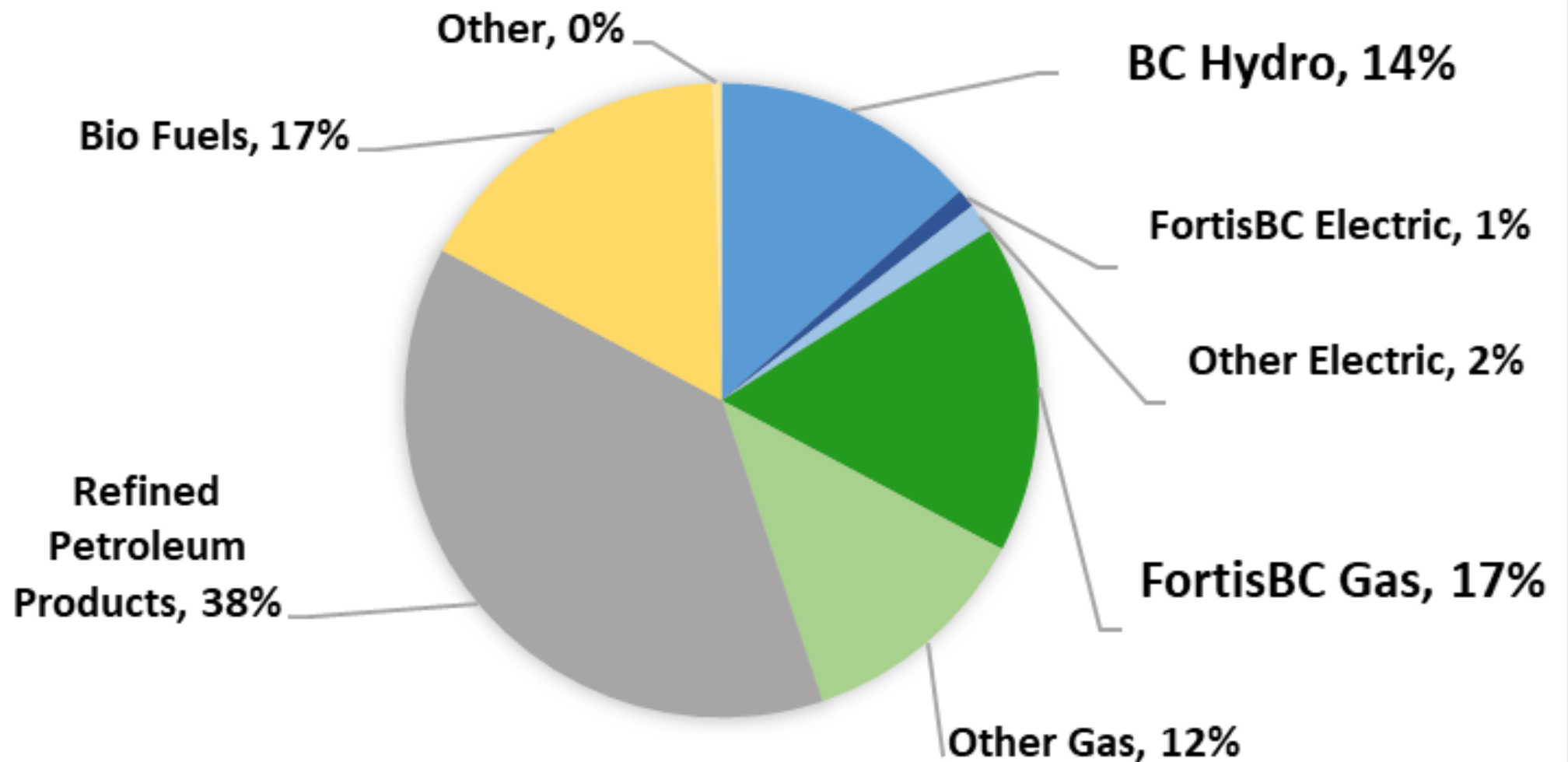


super

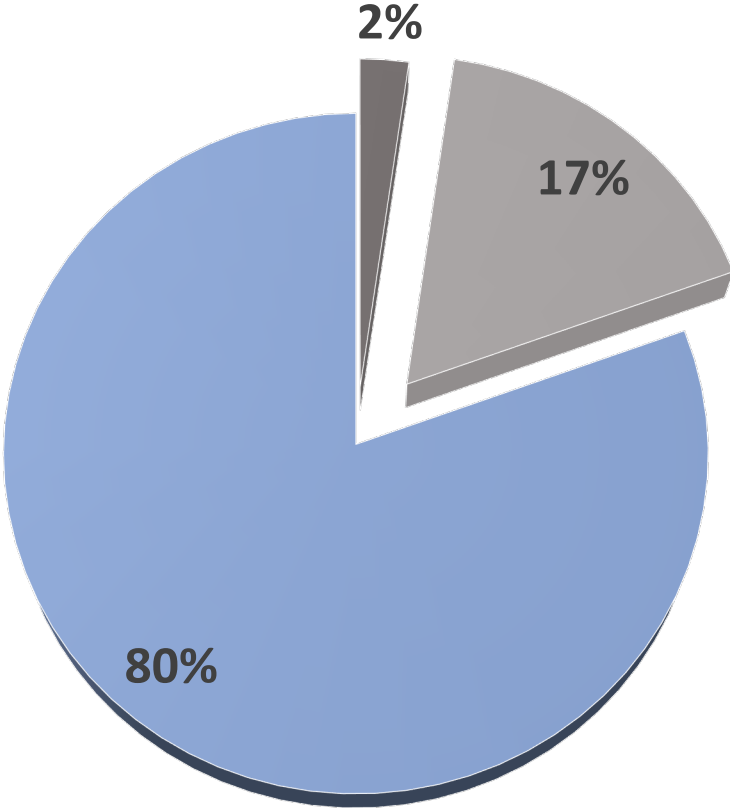
diesel



BC ENERGY DEMAND 2019

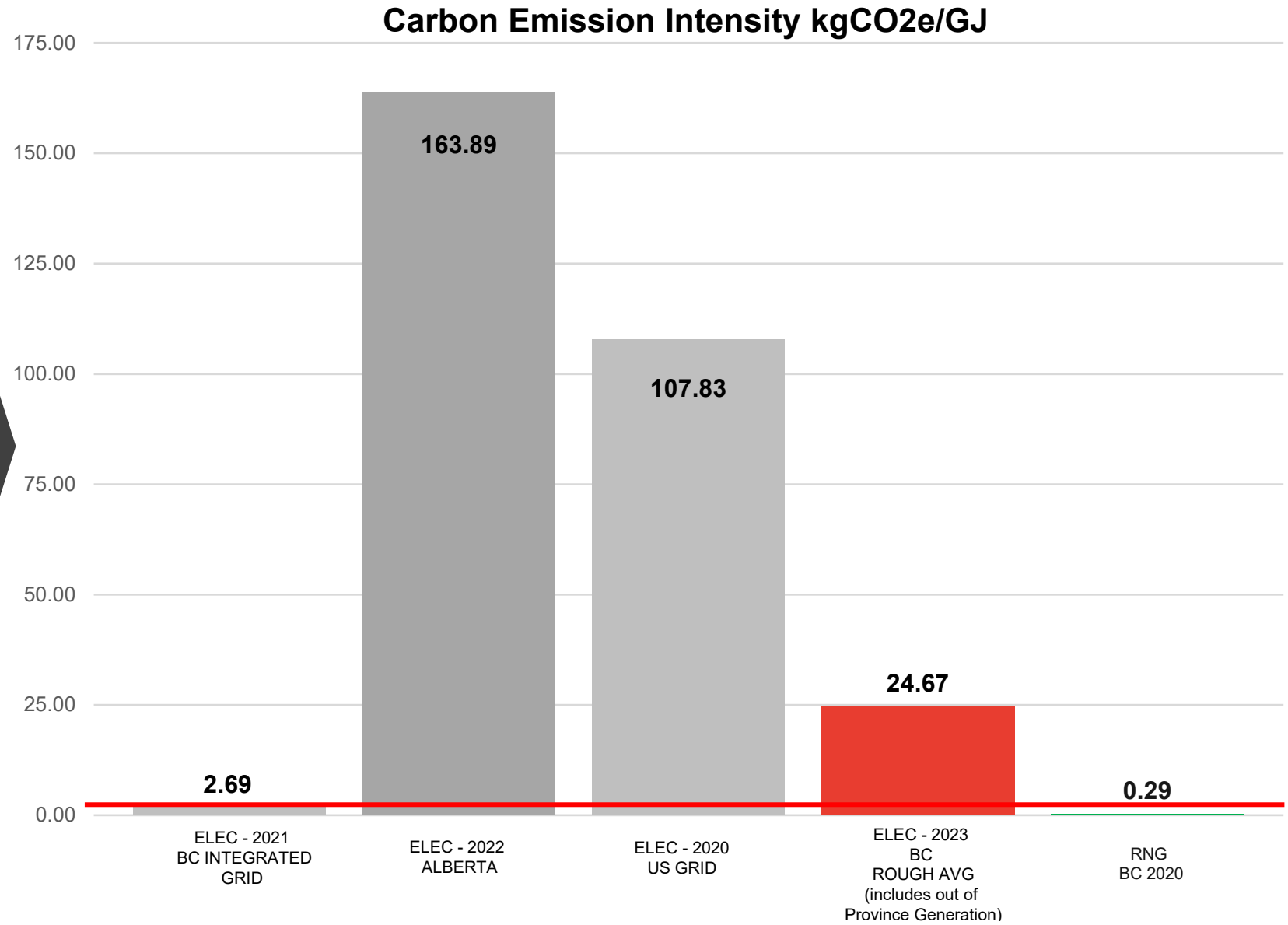


BC Hydro Electricity Sources 2023



■ Alberta Grid ■ US Grid ■ BC Grid

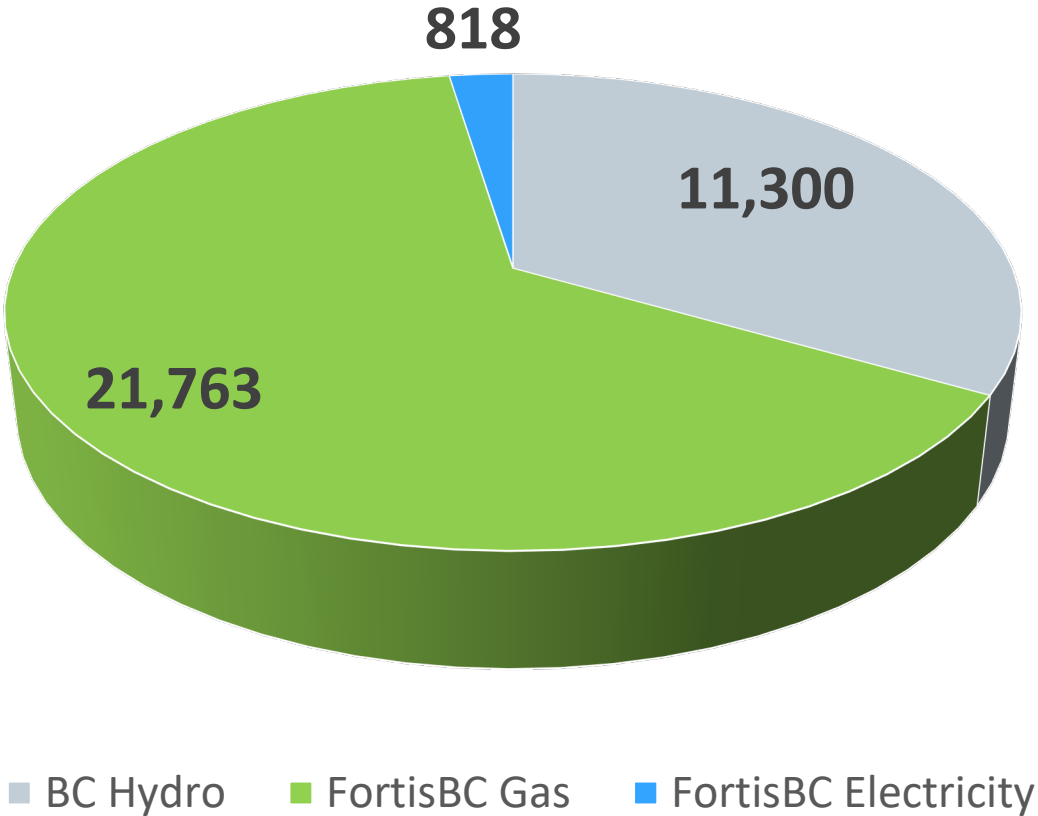
Emission Intensities Can Change



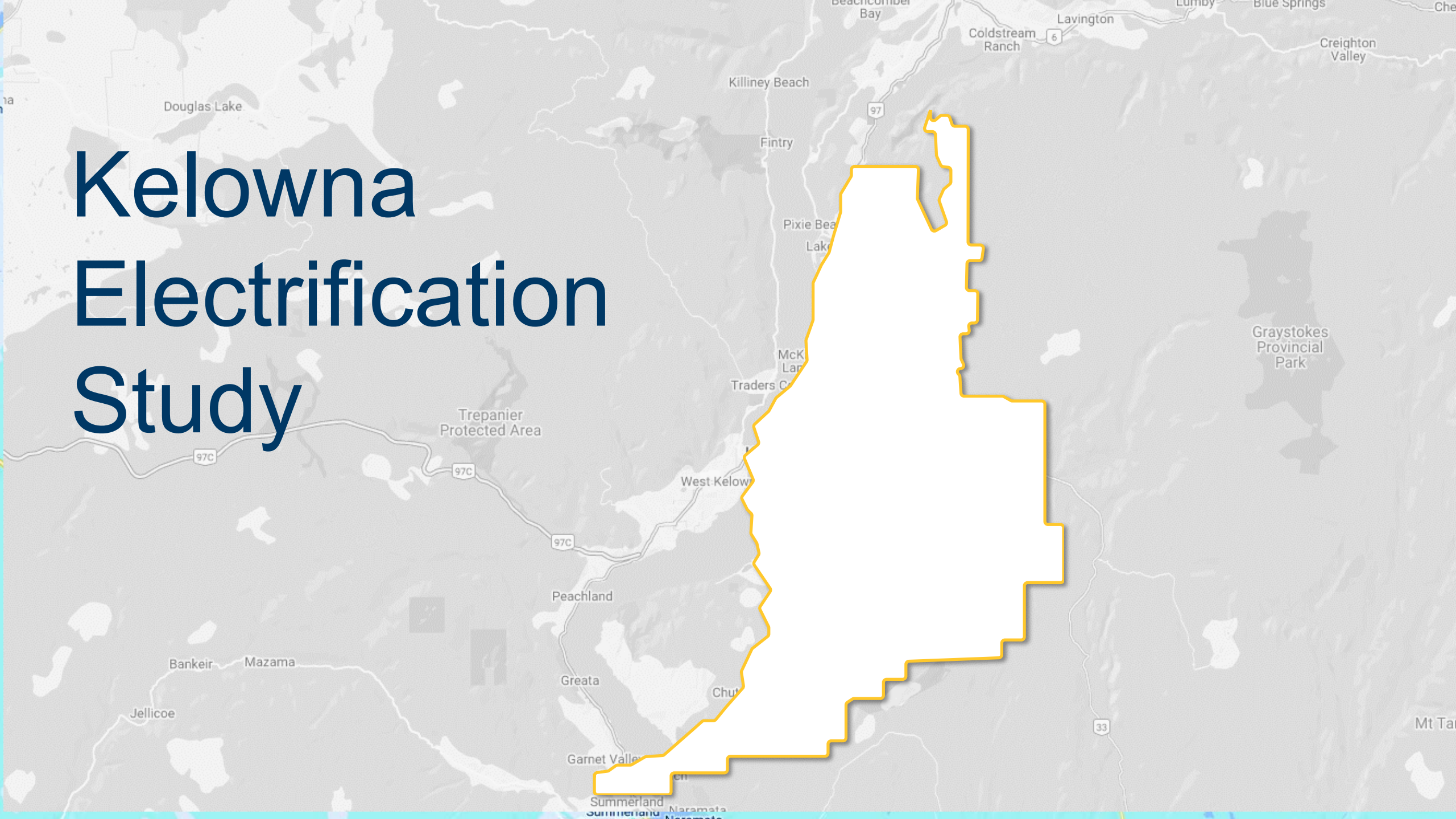
*Elec – 2023 rough average assuming that the 20% of imported electricity comes from the Alberta and US grid at the average carbon intensity of those grids.

The Natural Gas System Delivers nearly twice the energy of the electric system during the coldest days

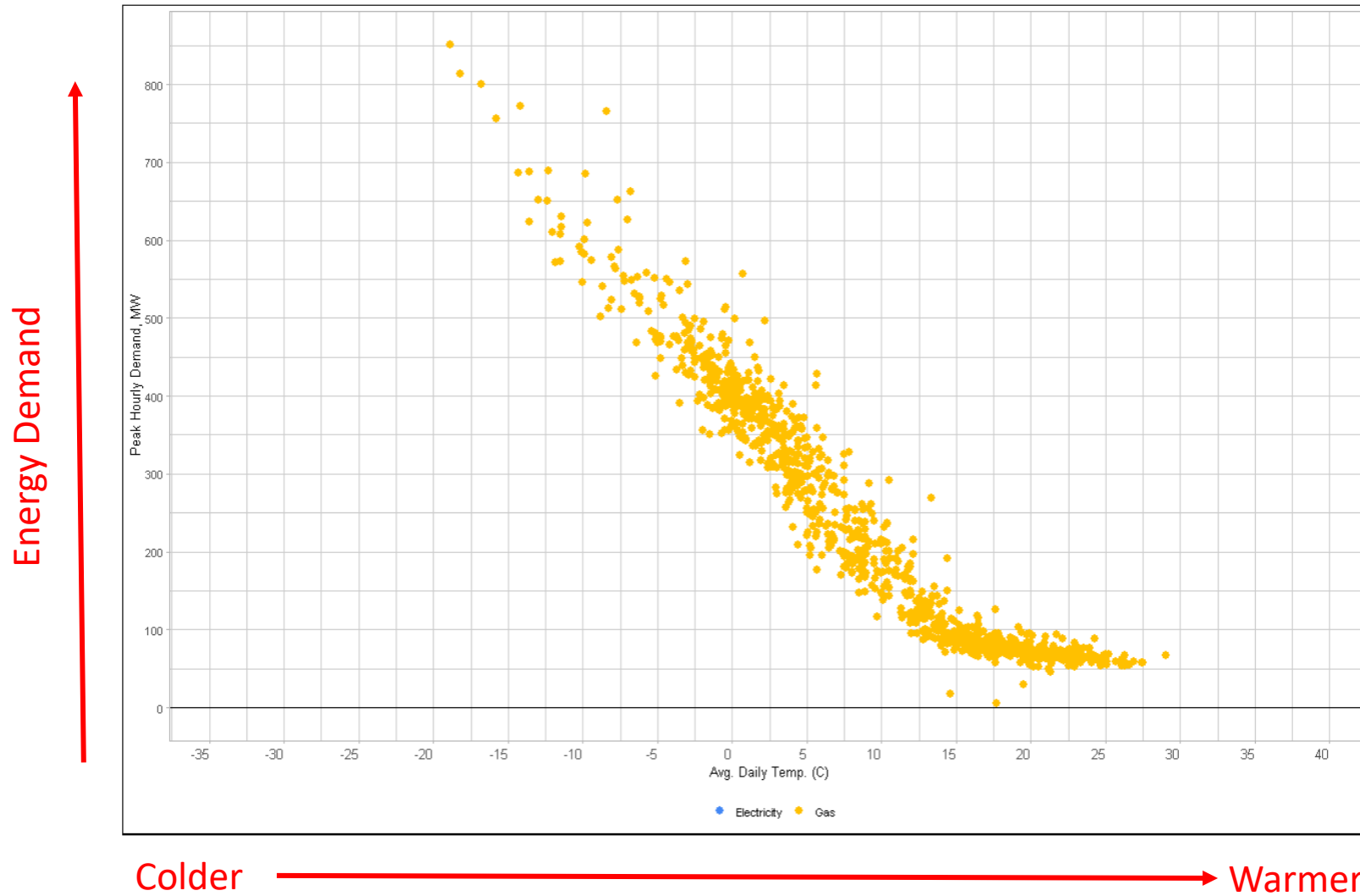
British Columbia Peak Energy Usage (MW) January 2024



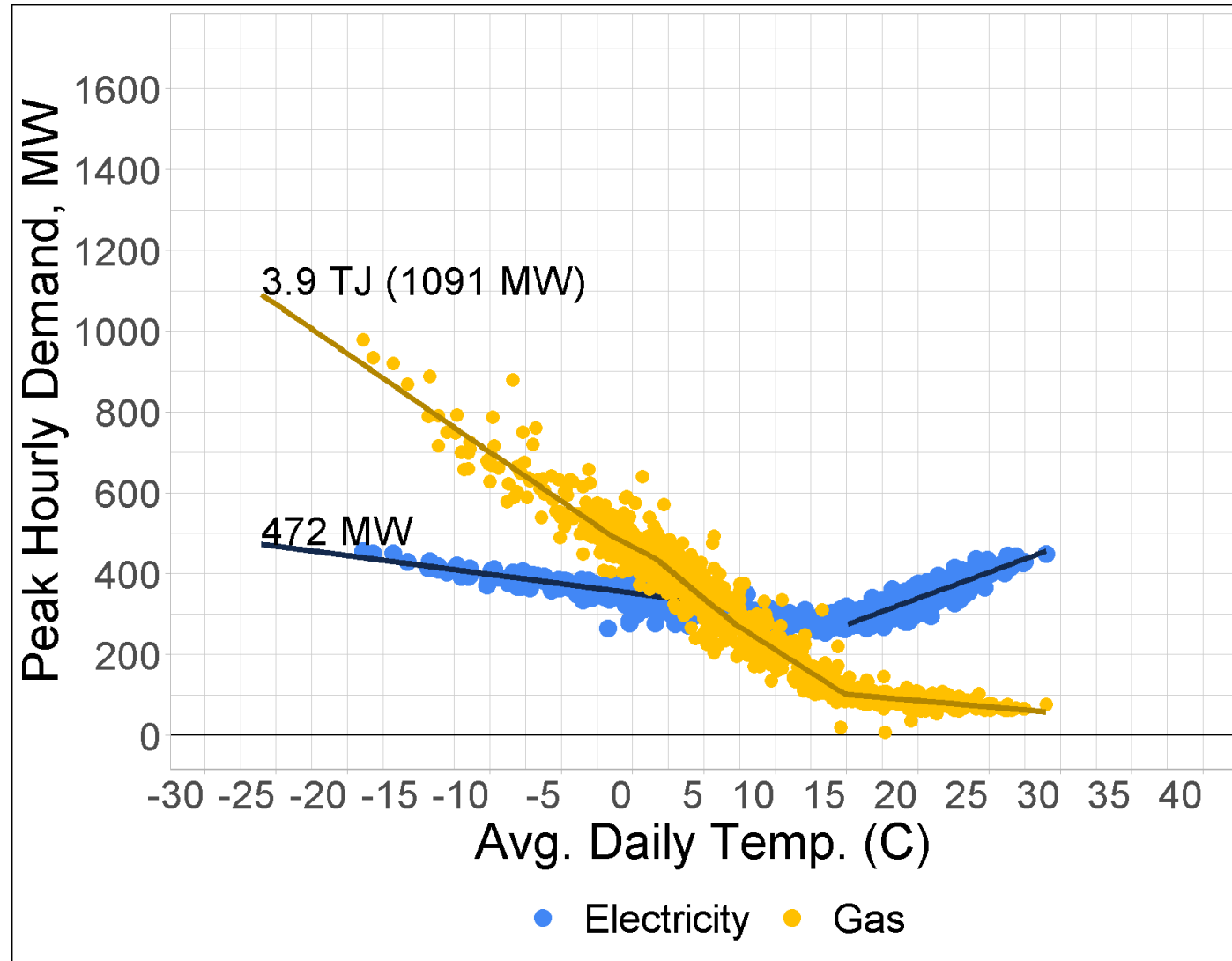
Kelowna Electrification Study



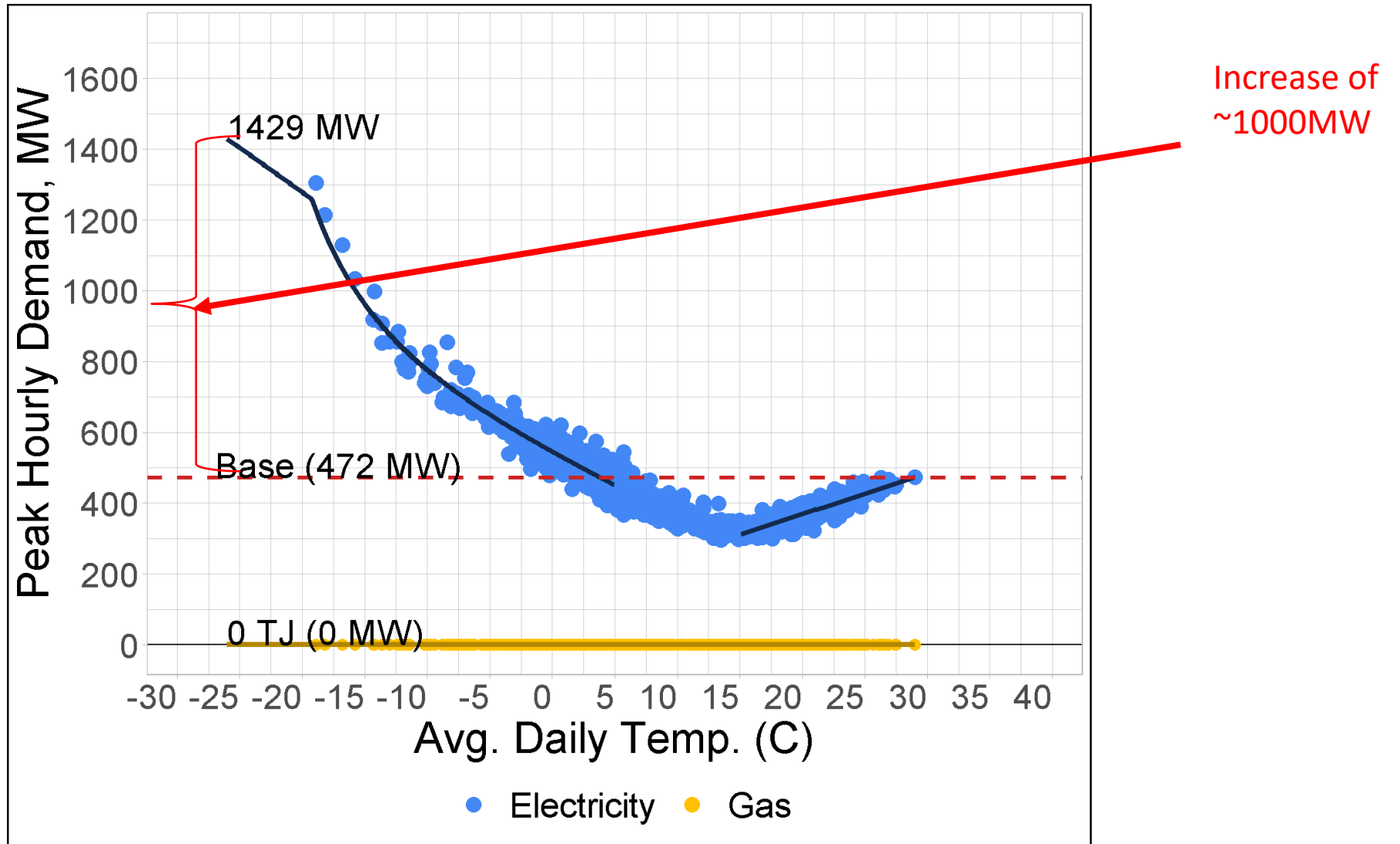
Gas loads by temperature in Kelowna



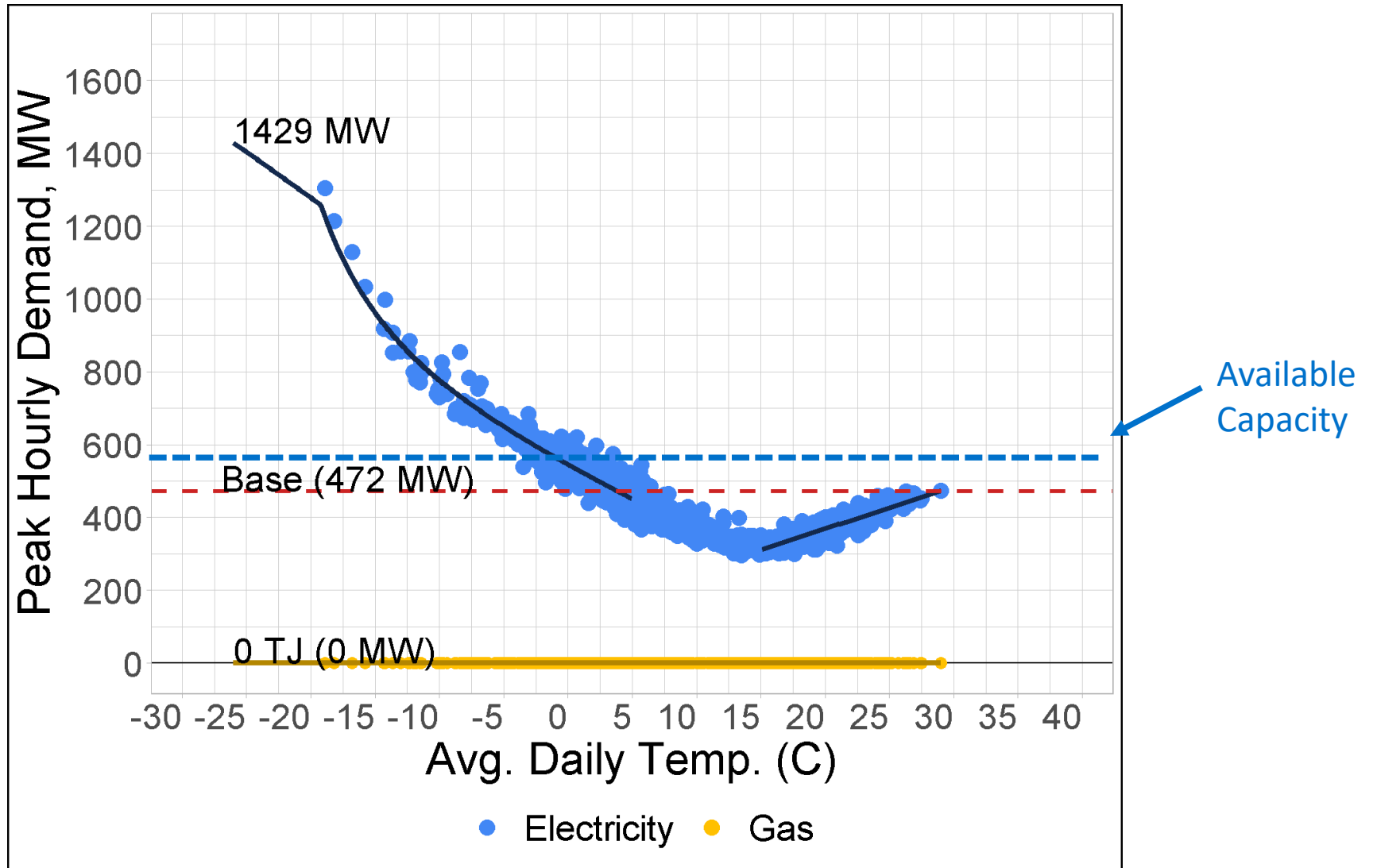
Current Gas and Electric Demand



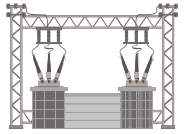
100% Electrification of Gas Demand



100% Electrification of Gas Demand

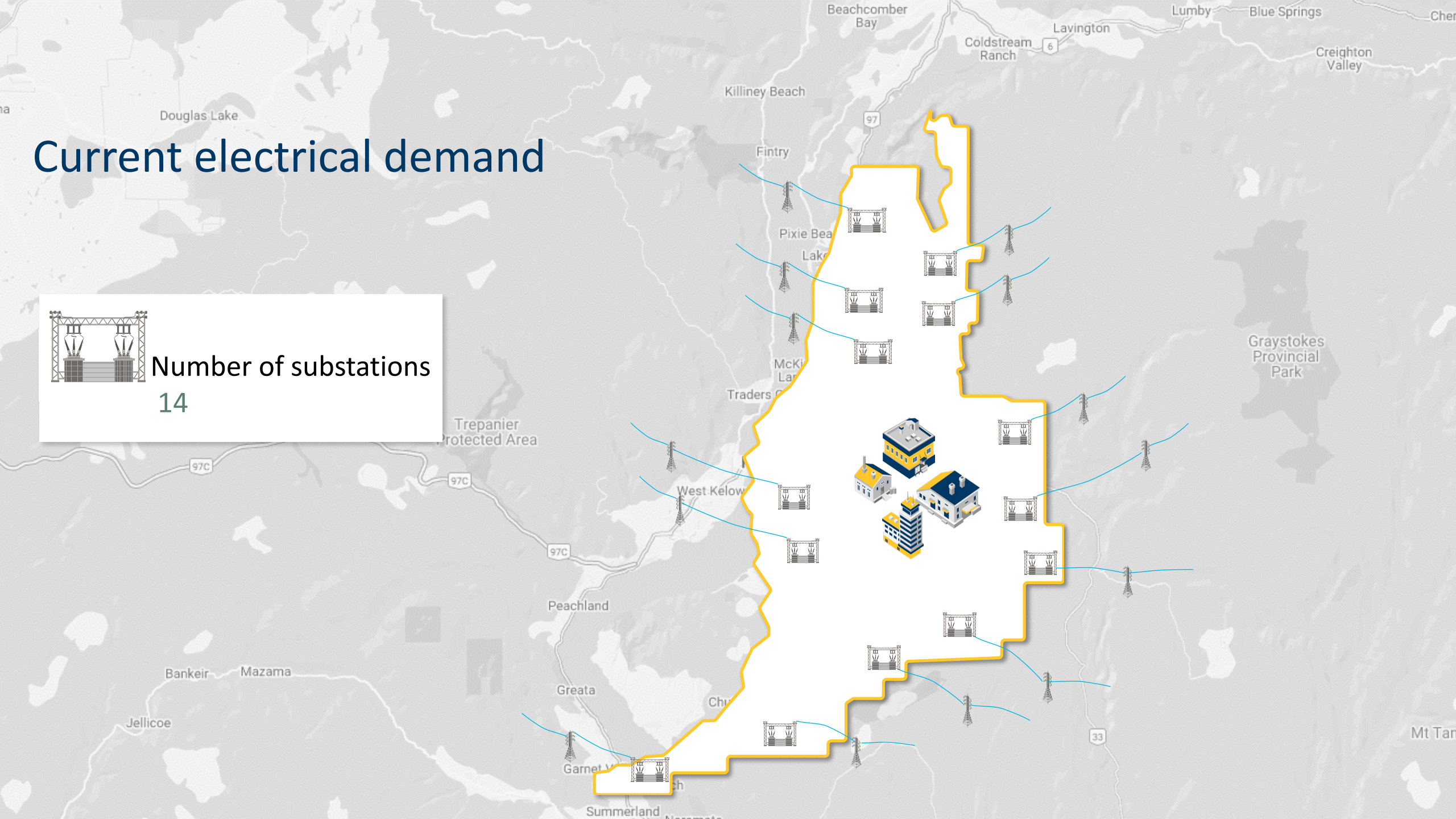


Current electrical demand

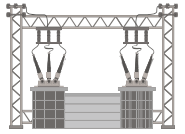


Number of substations

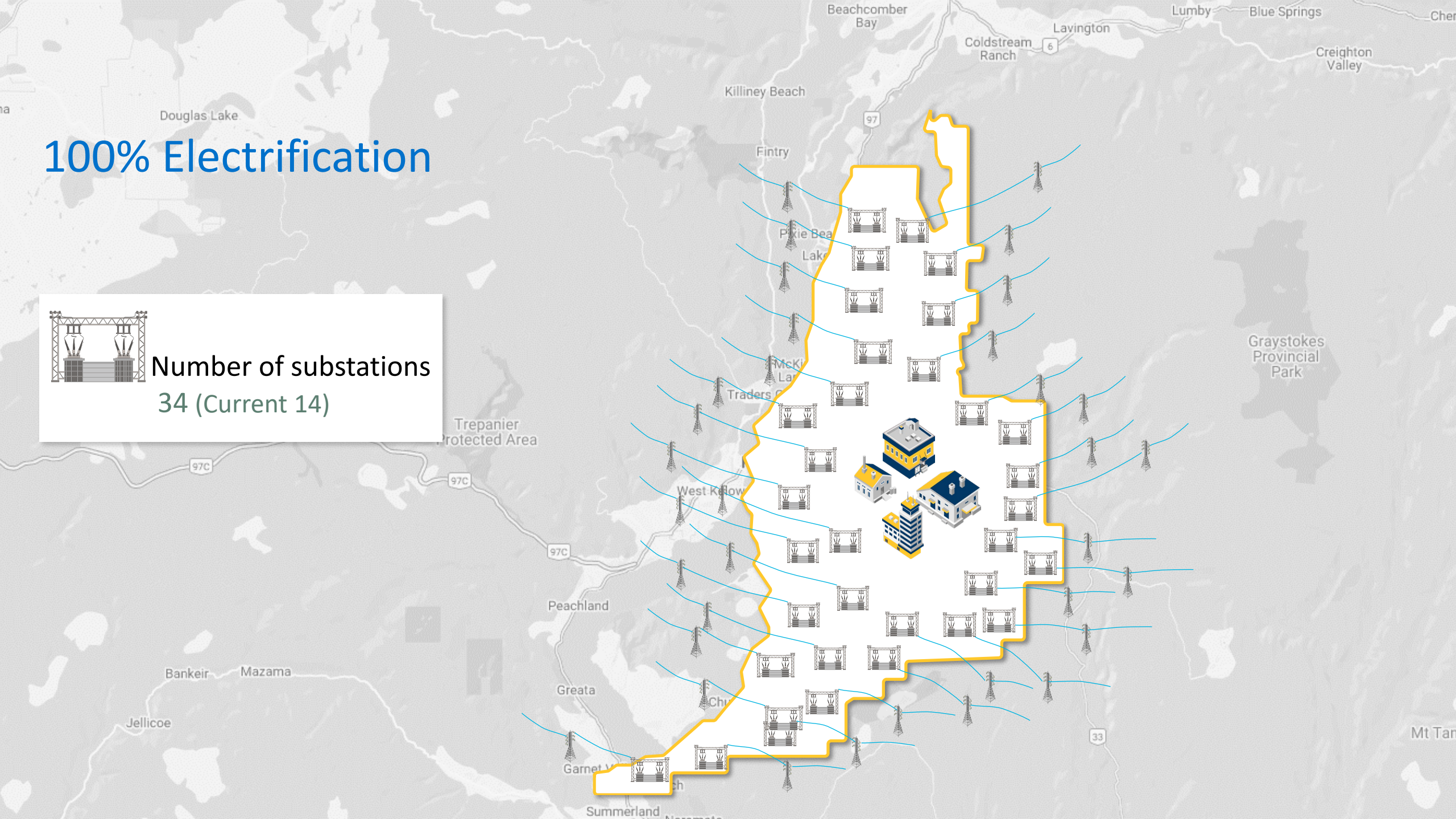
14



100% Electrification



Number of substations
34 (Current 14)



100% Electrification

Number of Customers

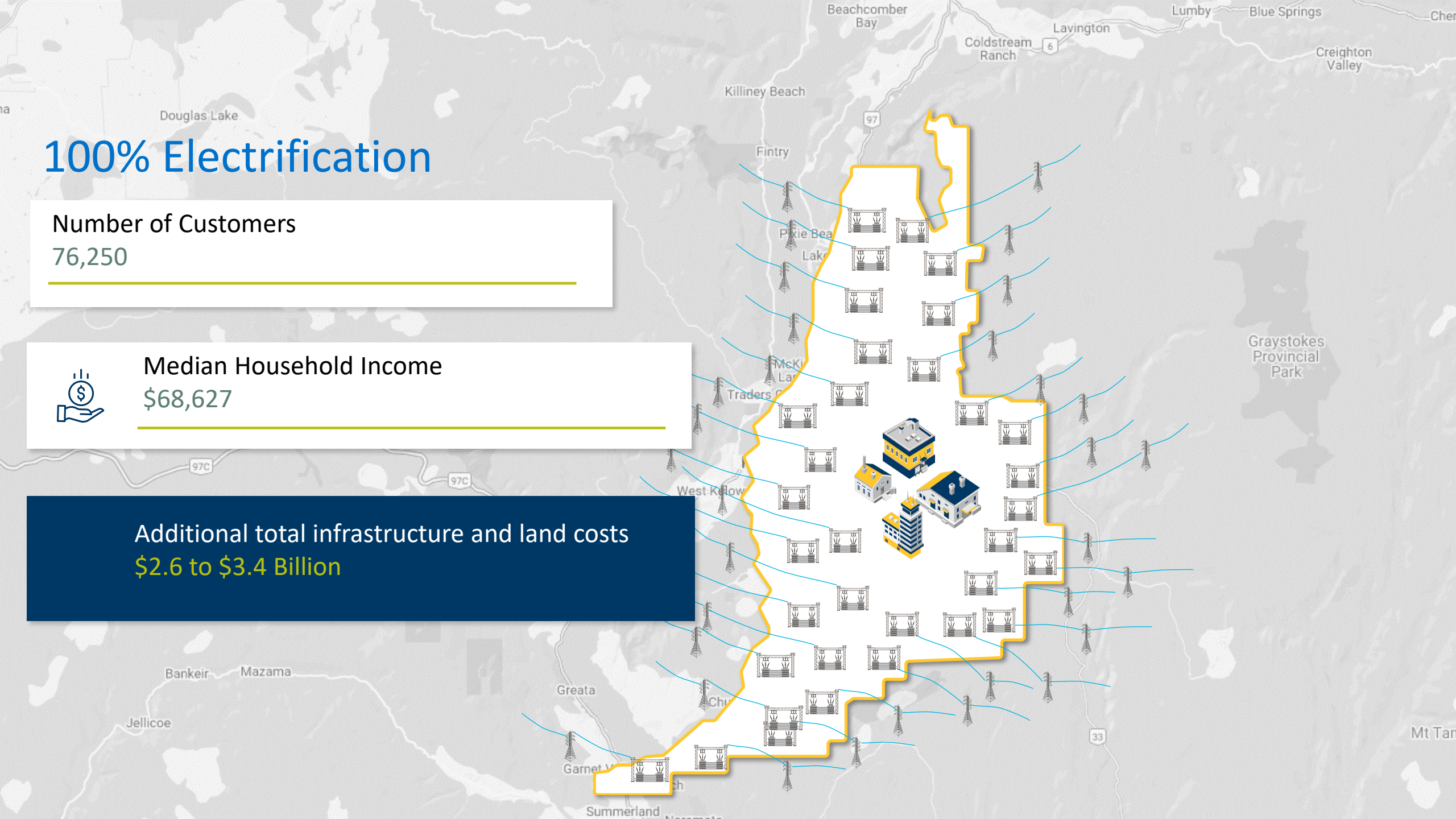
76,250



Median Household Income

\$68,627

Additional total infrastructure and land costs
\$2.6 to \$3.4 Billion

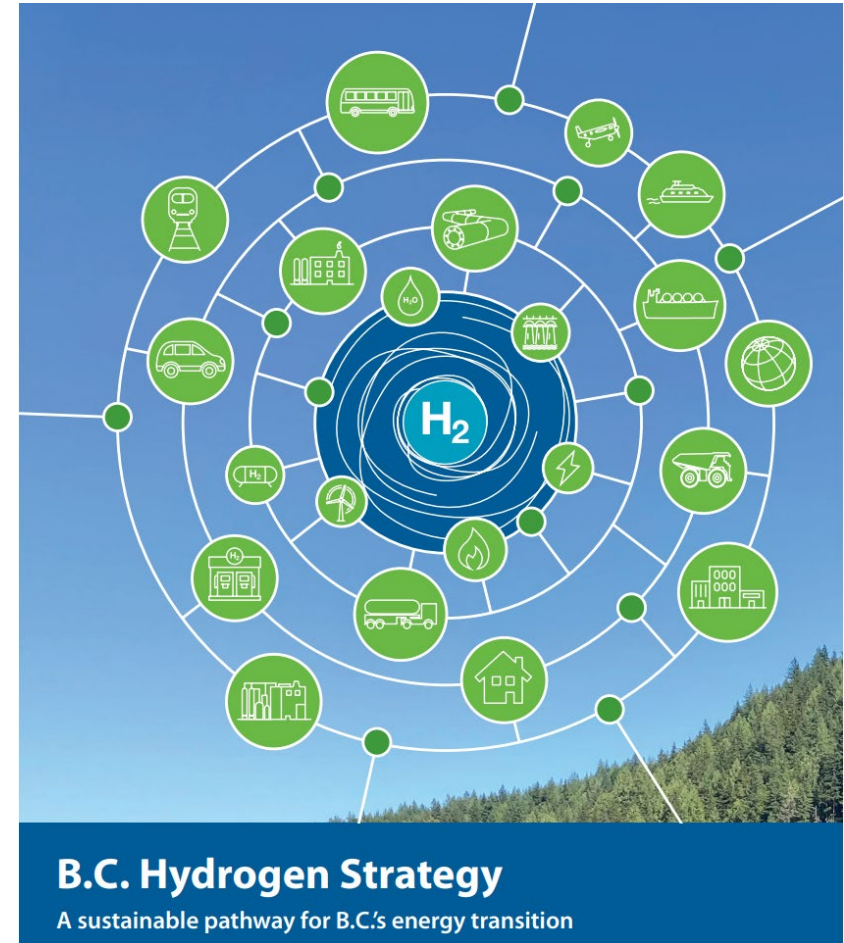


De-carbonize the Gas System

Renewable Gas



Hydrogen



Technology and Energy Efficiency



Hybrid Systems and Gas Heat Pumps

Options Choice