Anchorage Community Greenhouse Gas Inventory

2015 & 2020

The Anchorage Community-Wide Greenhouse Gas (GHG) Inventory found a **3.61%** reduction in emissions from 2015 to 2020.

EMISSION DRIVERS:

The 2015 Anchorage Community-Wide Greenhouse Gas (GHG) Emissions Inventory found community GHG emissions totaling **5,216,353 metric tons** of carbon dioxide equivalent (CO_2e), compared to **5,028,001 metric tons** of CO_2e in 2020. These savings represent the equivalent of emissions from over **22 million gallons** of gasoline consumed.

SINCE 2015

FACTORS REDUCING EMISSIONS:

Building emissions decreased **8.3%** overall, mostly from electricity efficiencies and a cleaner grid.

Anchorage homes are reducing energy use through retrofits and more efficient appliances, using a total of **3.6%** less electricity, even while people stayed home during the pandemic.

Chugach Electric Association added **10%** more hydropower and increased operational efficiencies.

Nearly **600 residential customers** have installed solar within Chugach Electric Association service territory, for a total of **3,310 kilowatts**, or the equivalent of capacity.

Passenger and freight road traffic saw an **18%** decrease, likely due to changes in behavior during the 2020 COVID-19 pandemic, including an **82%** decline in state tourism.

Electric Vehicles are on the rise, with continued projected growth due to federal investments.

FACTORS INCREASING EMISSIONS:

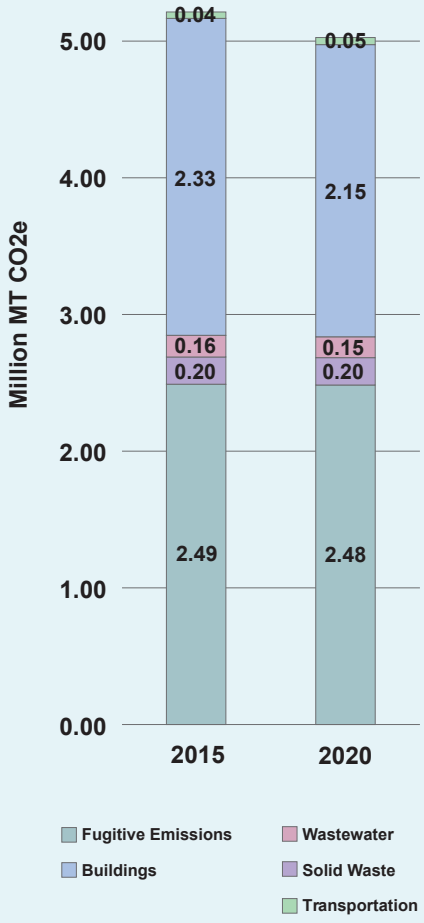
Air cargo in Alaska increased **16.3%**, due to its globally strategic location and pandemic boosted demand.

Emissions from residential heating fuels increased just over **9%**, likely due to people staying home during the pandemic.

Commercial spaces reduced electricity use during the pandemic but had to stay heated.

EMISSION TRENDS:

Changes to fuel sources used to generate electricity represent **97%** of total emission reductions, while increases in cargo traffic and use of gas for heating offset those gains.



PANDEMIC RELATED BEHAVIORAL CHANGES

18% Road Transportation Emissions

14% Commercial Electricity Emissions

CLEANER GRID

8% Residential and Commercial Building Emissions

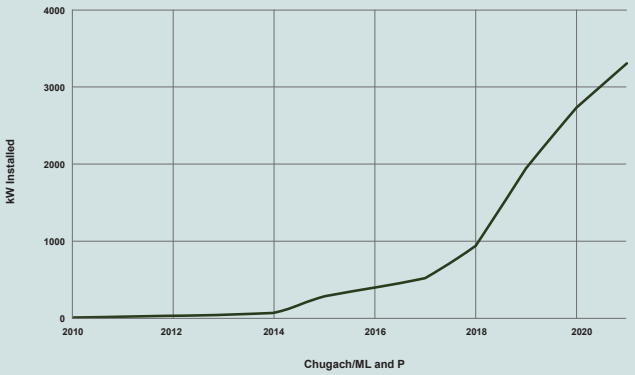
20% Decrease in Grid Emissions per kWh

AIR CARGO INCREASES

19% Increase in Airport Emissions Due to Increased Cargo

CLEAN ENERGY ON THE RISE

Solar energy use has been on the rise in Anchorage, primarily for small, residential projects.



This GHG Inventory is intended to support the 2019 Anchorage Climate Action Plan. While a reduction is encouraging, it is clear there is more work to be done to meet our emissions reductions goals. Anchorage has the resources and knowledge to make significant reductions for a prosperous and resilient future.

Special thank you to the Thriving Earth Exchange for its support in developing this inventory.

Visit *www.muni.org/climateactionplan* for the full inventory.