



# Energy and Greenhouse Gas Inventory: City of St. John's (2018)

## ENERGY & EMISSIONS

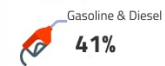
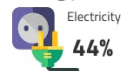


In 2018, St. John's consumed approximately **14.4 million gigajoules (GJ)** of energy, which emitted **667,113 tonnes of carbon dioxide equivalents (tCO<sub>2</sub>e)**.

Corporately in 2018, City operations and services consumed **365,625 GJ** of energy, which emitted **12,457 tCO<sub>2</sub>e** (or about 2% of the community inventory).

## IN THE COMMUNITY...

### Energy used:



### Greenhouse Gas Emissions:

The **Residential** sector consumed 28% of the total energy and emitted 15% of the GHGs. **15%**

**Transportation** consumed approximately 41% of the energy use (gasoline and diesel) and emitted 59% of the community's GHGs. **59%**

The **Institutional/Commercial/Industrial** sector consumed 31% of the energy and emitted 23% of the GHG emissions. **23%**

**Waste** (solid and wastewater) contributed 3% of the community's GHG emissions. **3%**

## CITY OF ST. JOHN'S...

### Energy used:



### Greenhouse Gas Emissions:



The City of St. John's **water, facilities, and transportation** consumed 30%, 26% and 24% of the energy used in 2018.

**Streetlights** contributed the most to the cost of energy - 32%.

**Solid waste** contributed 3% of the GHG emissions.



## By 2030...



**5.5%**

Community energy use is estimated to increase to approximately **15,152,184 GJ**



**5.7%**

Community GHG emissions are expected to decrease to **628,925 tCO<sub>2</sub>e**

In this "business as usual" scenario, gasoline and fuel oil consumption are assumed to remain as the major sources of GHG emissions for both community and corporate inventories.



**5.5%**

Corporately, energy consumption is estimated to rise to approximately **385,584 GJ**



**15.3%**

City of St. John's GHG emissions are expected to decrease to **10,549 tCO<sub>2</sub>e**

The reductions in GHG emissions in these projections are due to the Province's electric generation changed to hydropower in the lower Churchill River.

An energy and emission inventory estimates the energy use and GHG emissions generated within a specific time period. It also estimates future emissions if action is not taken, to inform GHG mitigation targets. In this case the year 2018 was selected as a baseline year.

The City of St. John's Energy and Greenhouse Gas Inventory for 2018 report was prepared in conformance with the CSA/ISO 14064-1 standard. The inventory follows requirements of the Partners for Climate Protection (PCP) Protocol and incorporates refinements from the 2019 IPCC Guidelines for National Greenhouse Gas Inventories and the Greenhouse Gas Protocol.

To read the full report or to learn more about the City's climate change adaptation and mitigation strategies, please visit the Sustainability page at [stjohns.ca](http://stjohns.ca)

# ST. JOHN'S