

City of Vancouver Climate Strategy

VANCOUVER
CITY HALL

CITY OF
Vancouver
WASHINGTON

November 23, 2020
P.J. Tillmann & Tristan Smit
Cascadia Consulting Group

Presentation Overview

We'll provide an overview of the process to develop Vancouver's climate strategy and cover three key topics:

- Greenhouse gas (GHG) emissions – *City and community*
- Emissions reduction targets – *options*
- Forecasts – *federal, state, and local role in reaching target*

Overview: Climate Strategy

Provide a pathway to a **resilient, low-carbon** future that sustains a **high quality of life** for residents and businesses



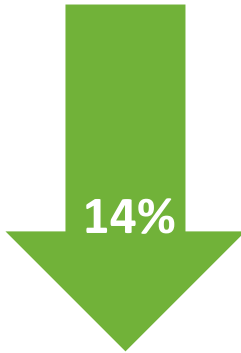
Overview: Climate Strategy

	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
	<ul style="list-style-type: none"> 2019 GHG inventories Forecasting 2007 inventory re-run 								
				<ul style="list-style-type: none"> Select targets 					
	<ul style="list-style-type: none"> Strategy developed 		<ul style="list-style-type: none"> Community survey City staff briefings Council workshop 		<ul style="list-style-type: none"> Staff briefings Staff interviews Community listening sessions 		<ul style="list-style-type: none"> Materials development Staff briefings Community listening sessions Council workshop 		
					<ul style="list-style-type: none"> Draft report City staff review 		<ul style="list-style-type: none"> Final draft report for public review City staff review 		



Our Carbon Footprint

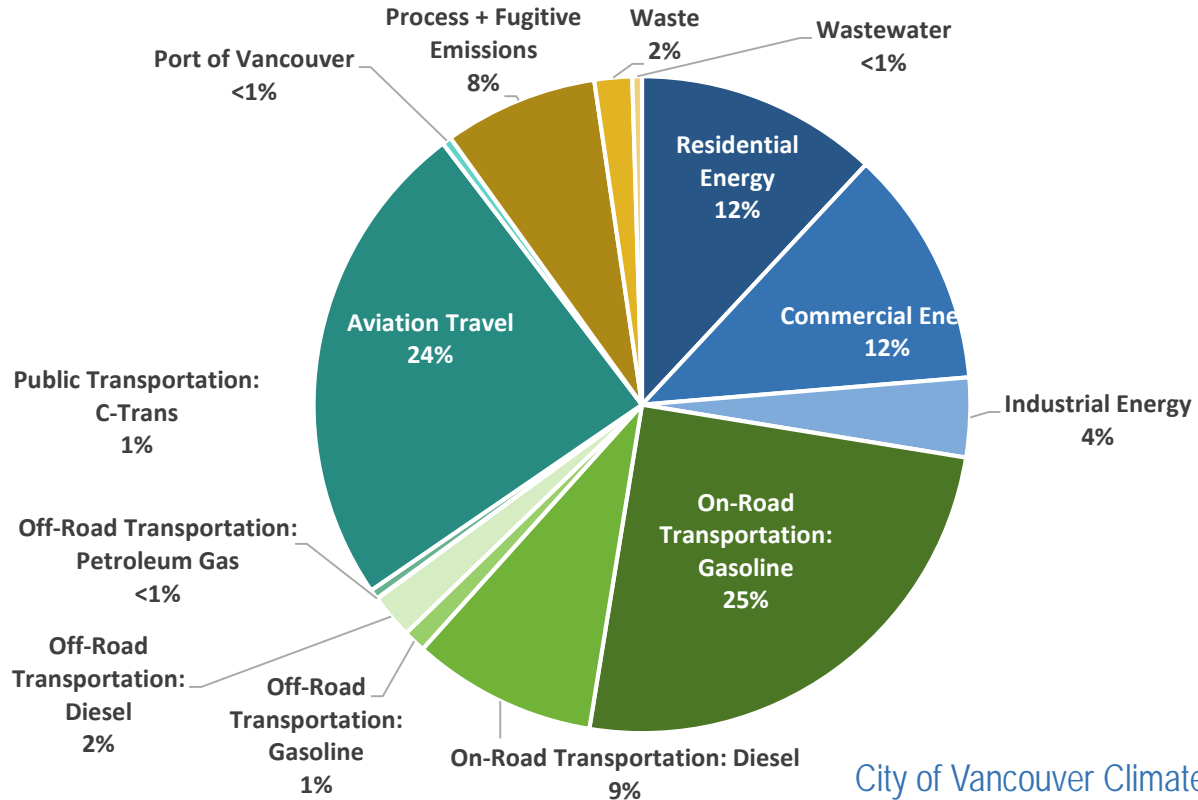
- **14% reduction**
since 2007



Sector	% Change (2007 to 2019)
Transportation & Mobile Sources	+15%
Residential Energy	-58%
Commercial Energy	-50%
Industrial Energy	-67%
Solid Waste	-42%
Water & Wastewater	N/A
Process & Fugitive Emissions	N/A



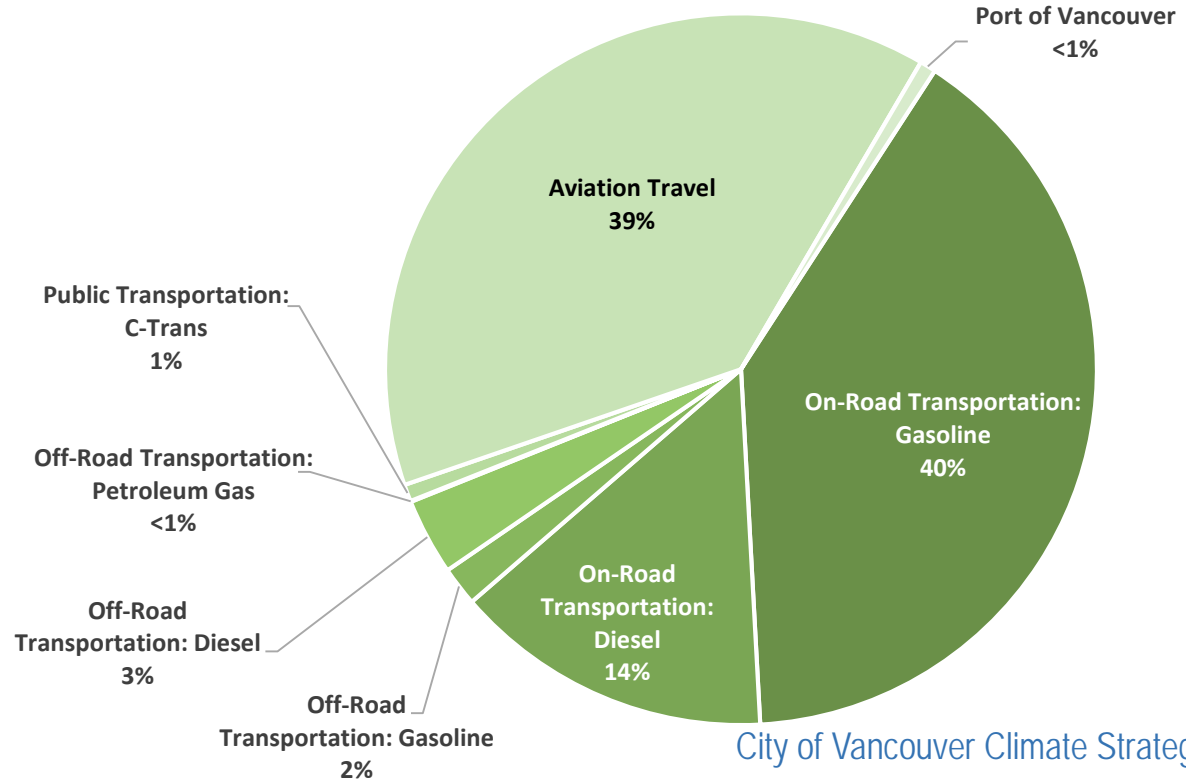
Our Carbon Footprint: 2019 Community Snapshot





Our Carbon Footprint: Transportation

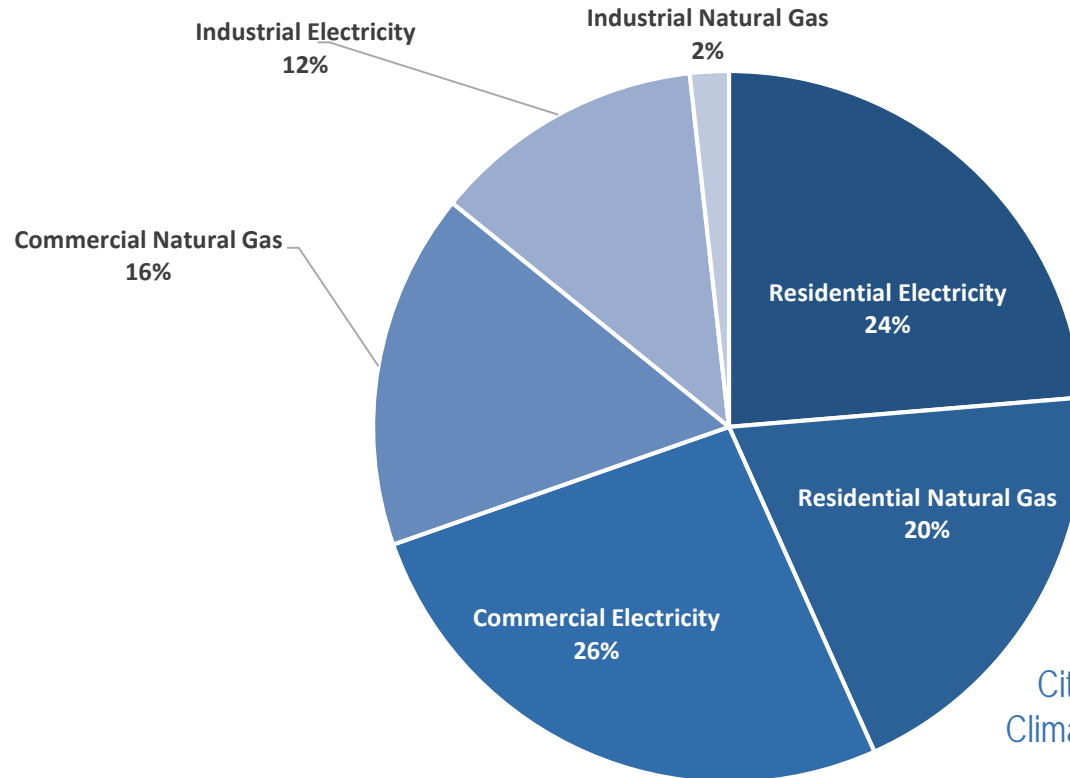
- **#1 Source** of Communitywide Emissions
- **Over 60%** of communitywide emissions





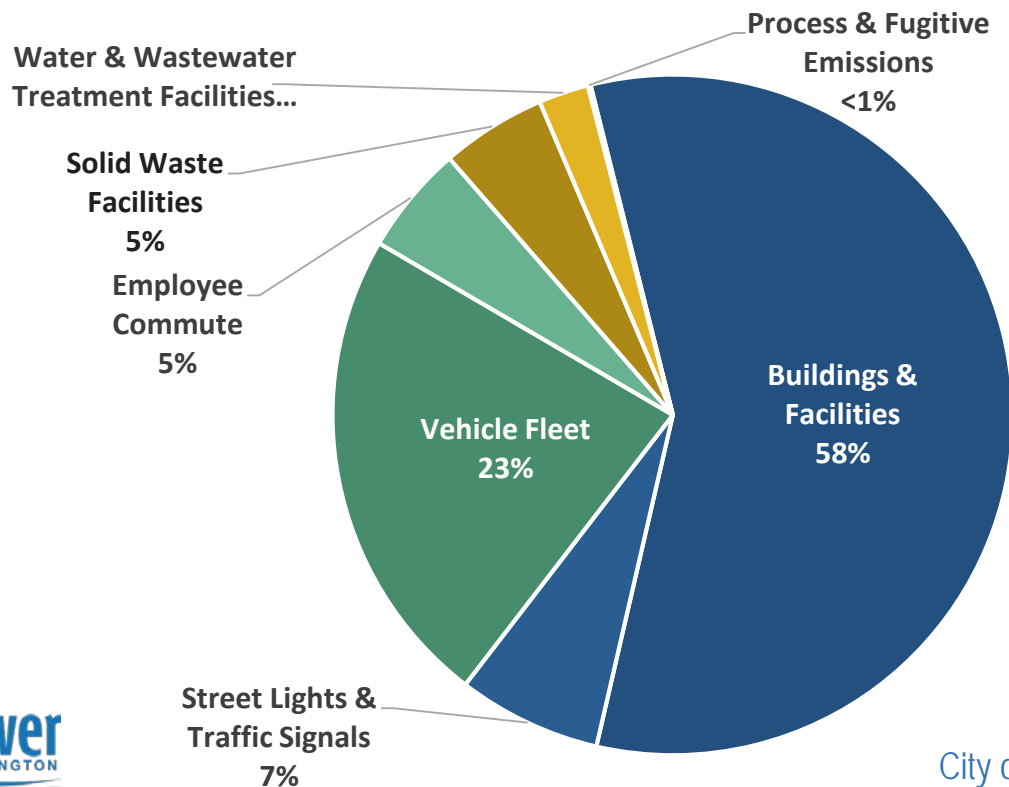
Our Carbon Footprint: Buildings & Energy

- **#2 Source** of Communitywide Emissions
- **Over 25%** of communitywide emissions





Our Carbon Footprint: 2019 Municipal Snapshot





Emissions Reduction Targets

Key considerations when developing target-setting options:

- State and federal policy – *CETA, HB 2311*
- Best available science – *1.5 °C or less global temperature rise*
- Local policy and context – *efficient development patterns, family-wage employment, VMT, annexation*
- Cost of mitigation – *the cost and magnitude of reductions needed increases over time*



Current Emissions Reduction Targets

Communitywide

- Reduce GHG emissions annually (vs. 2007 baseline)

Municipal Operations

- Reduce GHG emissions annually (vs. 2007 baseline)



Emissions Reduction Targets: Basic

Communitywide

- 50% emissions reduction by 2030
- 80% emissions reduction by 2050

Municipal Operations

- 50% emissions reduction by 2030
- 80% emissions reduction by 2050

Example Strategies

Transportation & Land Use • Incentivize electric vehicles (EVs)

Buildings & Energy • Increase energy efficiency

Water & Natural Systems • Encourage water & natural resource conservation



Emissions Reduction Targets: Stretch

Communitywide

- 50% emissions reduction by 2030
- Carbon neutrality by 2050

Municipal Operations

- 50% emissions reduction by 2030
- Carbon neutrality by 2050

Example Strategies

Transportation & Land Use • Incentivize alternative transportation & accelerate EV adoption

Buildings & Energy • Support state-level action to generate electricity with 100% renewable sources

Water & Natural Systems • Preserve tree canopy



Emissions Reduction Targets: Bold

Communitywide

- 80% emissions reduction by 2035
- Carbon neutrality by 2045

Municipal Operations

- 80% emissions reduction by 2030
- Carbon neutrality by 2040

Example Strategies

Transportation & Land Use

- Incentivize alternative transportation & EVs
- Prioritize dense development (reduce VMT)

Buildings & Energy

- Work with Clark PUD to procure renewable energy ahead of CETA mandates

Water & Natural Systems

- Expand tree canopy
- May require minimal carbon offsets



Emissions Reduction Targets: Leading Edge

Communitywide*

- 80% emissions reduction by 2030
- Carbon neutrality by 2045

Municipal Operations*

- 80% emissions reduction by 2025
- Carbon neutrality by 2040

Example Strategies

Transportation & Land Use

- Aggressively incentivize alternative trans. & EVs
- Implement development codes & policies w/ specific standards (avg. VMT)

Buildings & Energy

- Rapidly invest in large-scale renewable
- Generate energy and store surplus

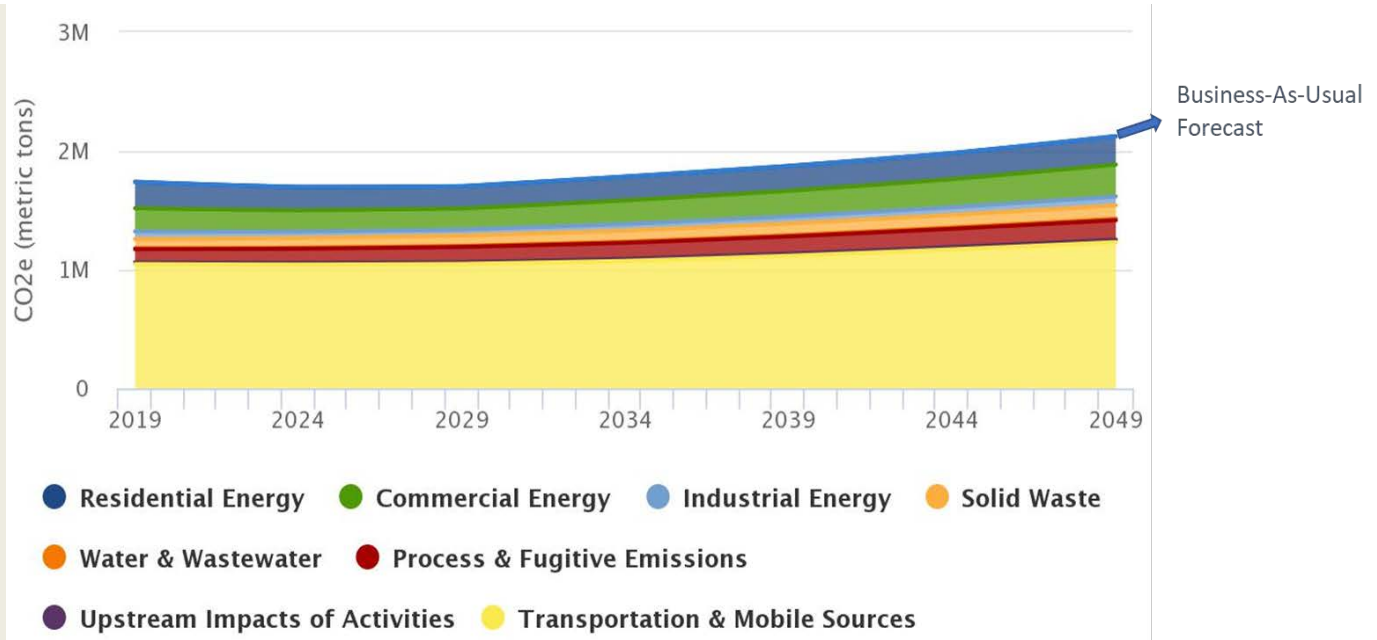
Water & Natural Systems

- Expand tree canopy & increase carbon storage in soil
- May require moderate carbon offsets



Our Carbon Footprint: Business-As-Usual (BAU)

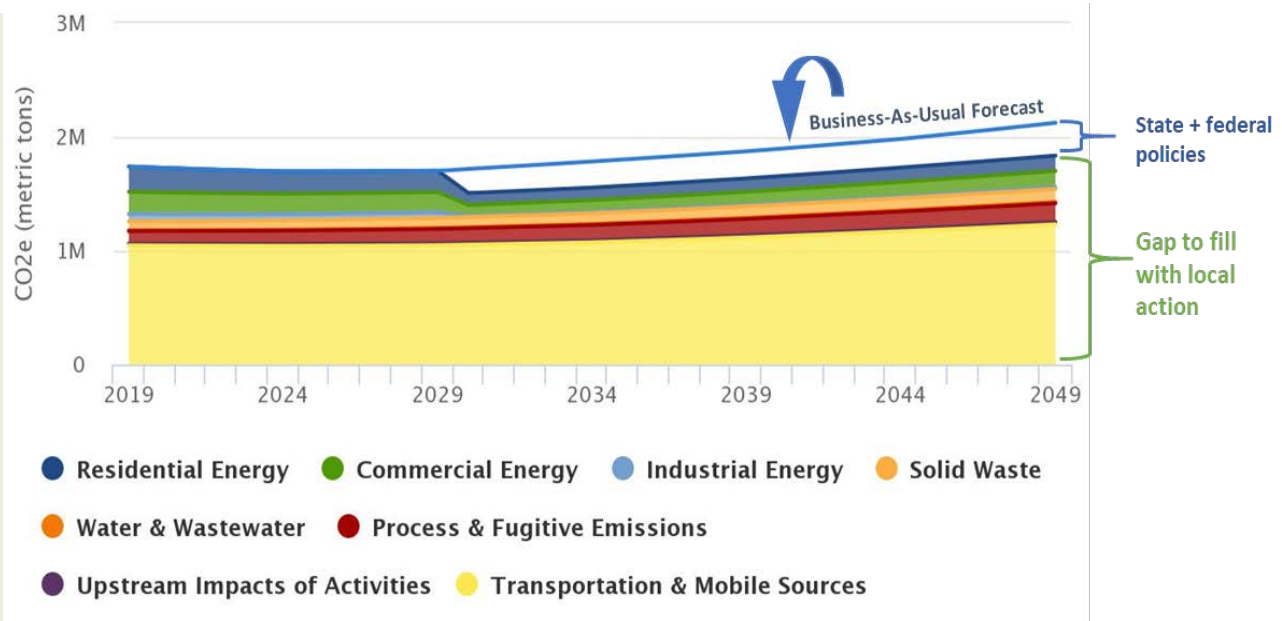
Emissions are expected to **increase 5% by 2050** without any climate action at the local or state level.





Our Carbon Footprint: Adjusted BAU

Although state and federal policies are expected to reduce emissions, **significant local action will be needed.**



Next Steps

Continue engagement to inform development of the carbon reduction plan and climate strategy report.



- City staff engagement – *Nov. 2020 and Jan.-Feb. 2021*
- Community engagement – *Ongoing*



- Council workshop on target and goal setting – *Dec. 14, 2020*
- Reduction plan and climate strategy – *Jan.-Mar. 2021*
- Council workshop to present strategy – *May 3, 2021*

Questions

VANCOUVER
CITY HALL

Aaron Lande, Senior Policy Analyst
360-487-8612

Aaron.Lande@cityofvancouver.us

CITY OF
Vancouver
WASHINGTON