

Environmental Stewardship Initiative



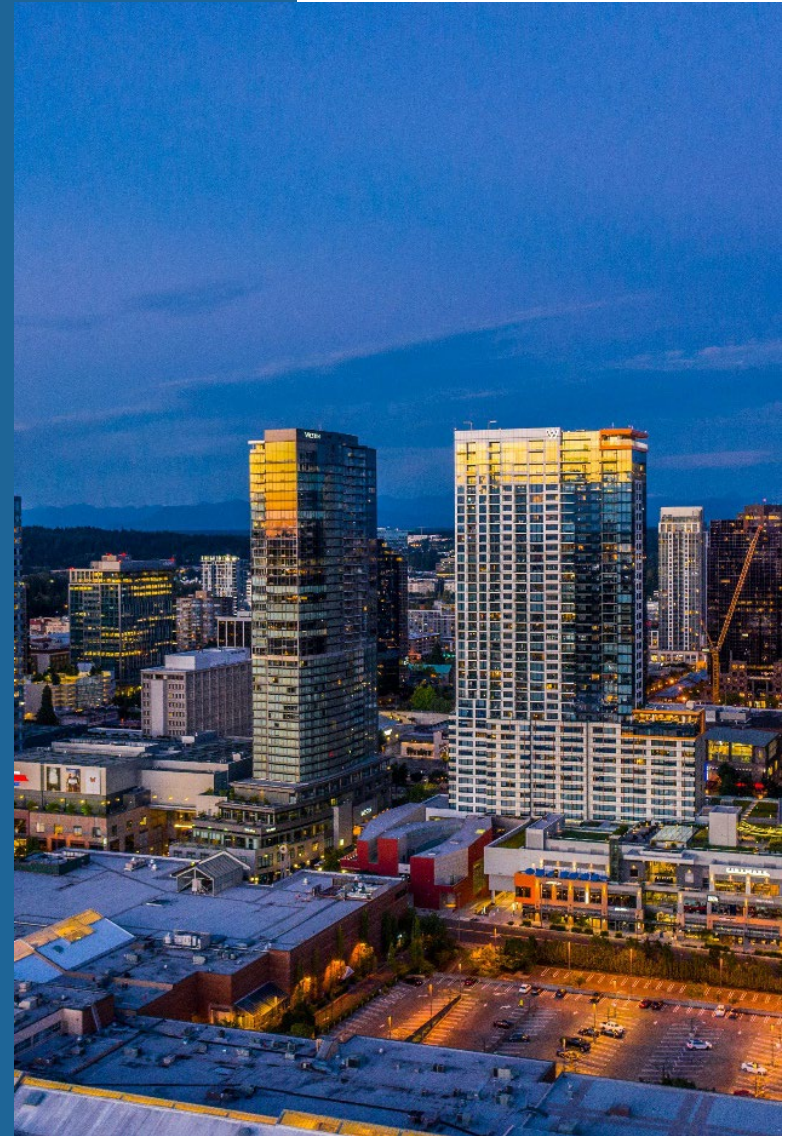
Quarterly Update

Michael Kattermann | Community Development
Emil King | Community Development
Jennifer Ewing | Community Development
Ana Hagerup | Finance and Asset Management
July 18, 2022



Information

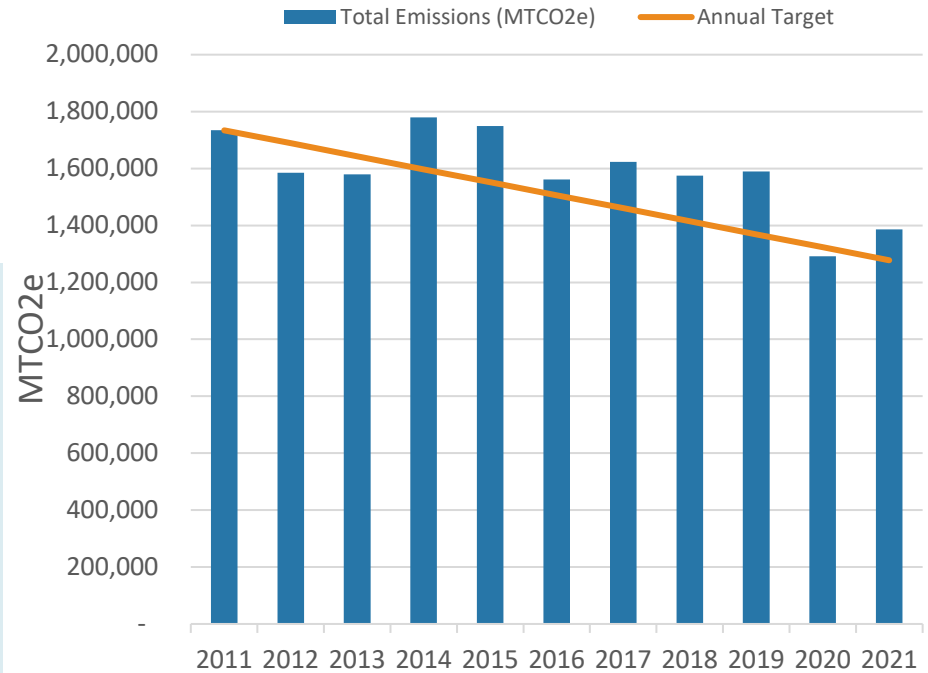
Tonight's Study Session will provide Council with an update on progress toward implementing the Sustainable Bellevue Environmental Stewardship Plan and the annual update on environmental performance indicators.



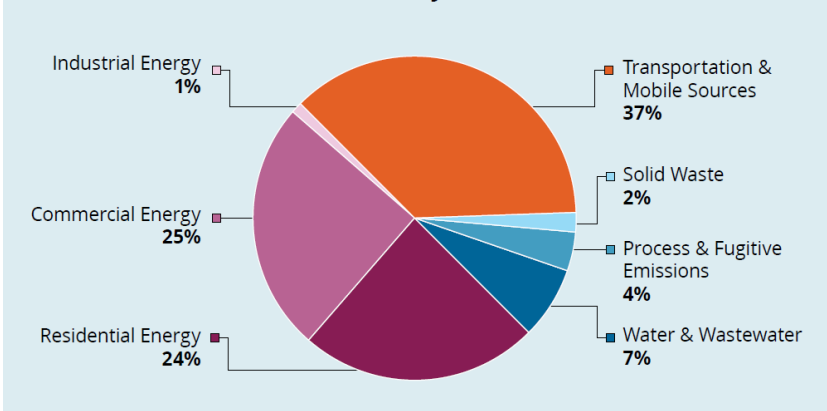
Community GHG Emissions

- GHG emissions decreased 20% between 2011-2021, despite adding 28,000 new residents and 24,000 new jobs.
- Community GHG emissions are trending in the right direction, but slightly over the target.

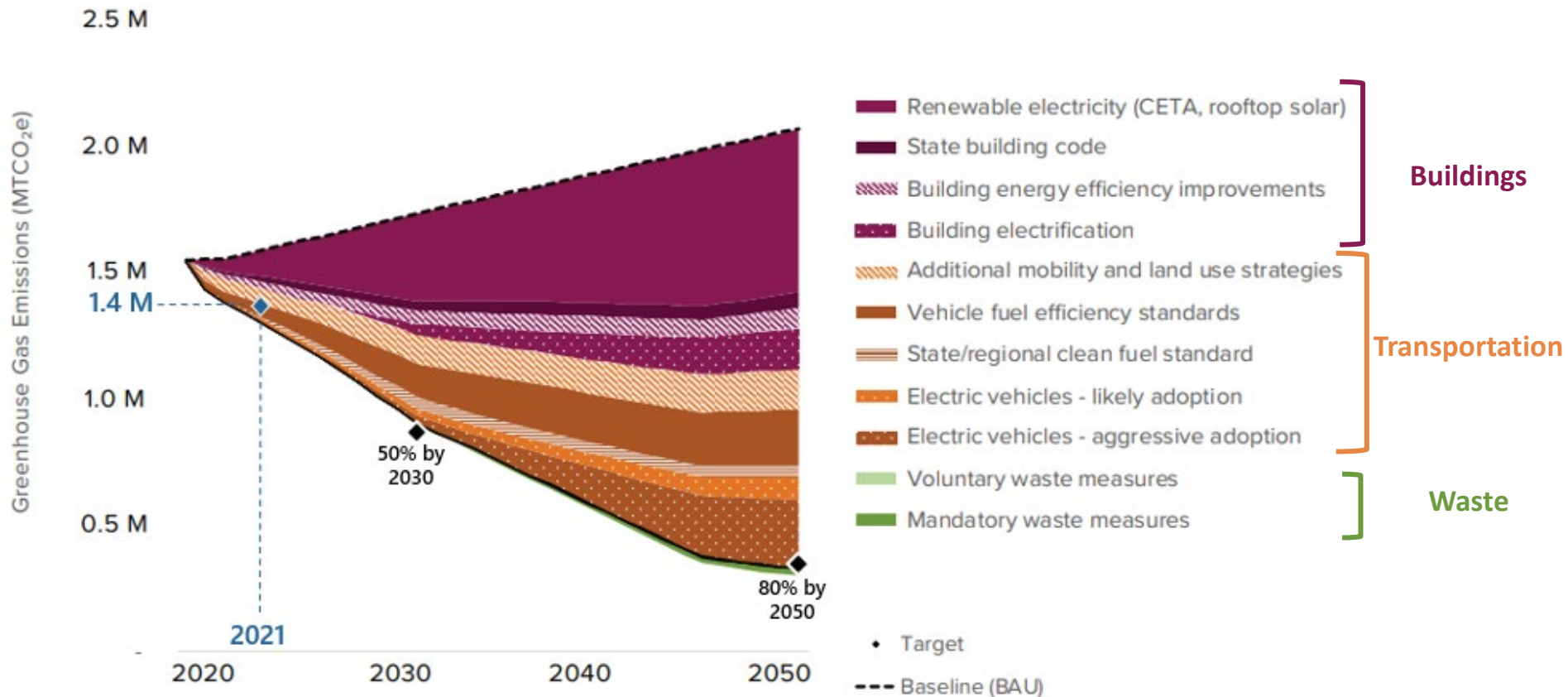
Community-wide GHG Emissions













GHG Emissions by sector - 2021



GHG Emissions Progress - Community



Community Progress Summary

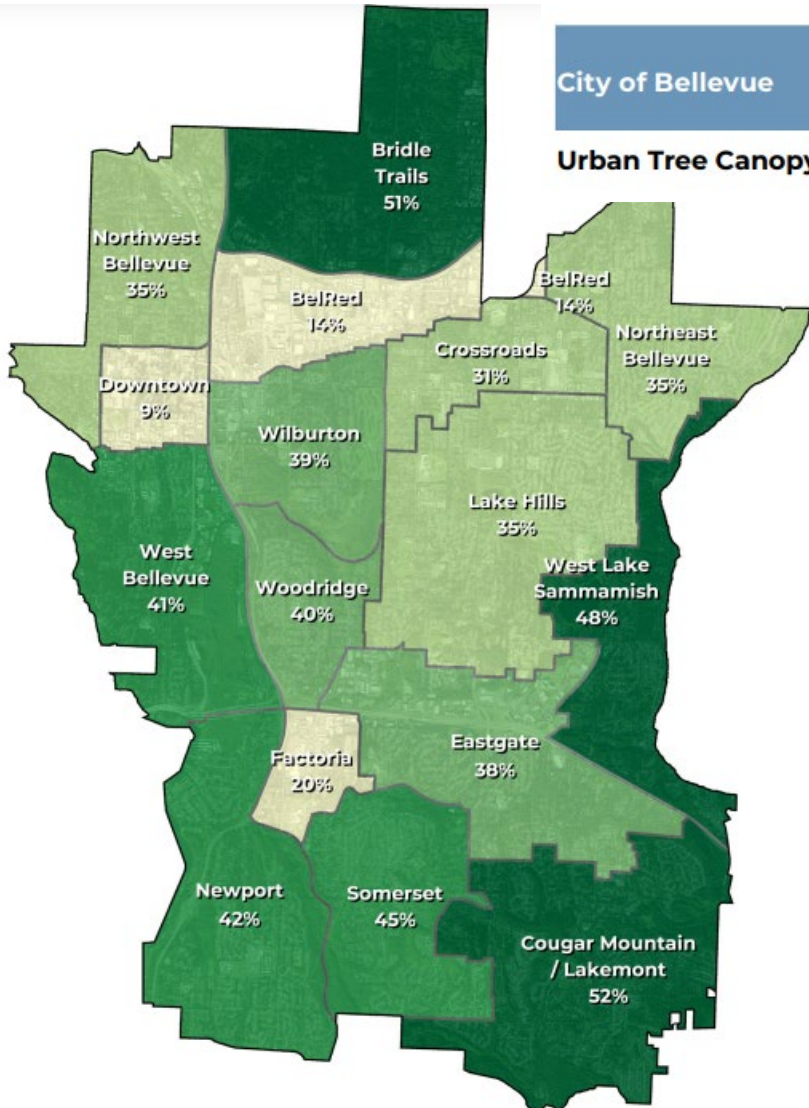
2030 Short-Term Targets		2011 - 2021	Progress Update	
	50% reduction in community GHG Emissions.		20%	↓ Trending toward target
	60% of residents commuting alone	2016-2020 average	58%	↓ Trending toward target
	65% of workers commuting alone	2016-2020 average	71%	↓ Trending toward target
	25% registered electric vehicles		3%	≡ No change
	20% reduction in per capita passenger car VMT		30%	↓ Exceeded target
	75% of jobs within ¼ mile of a frequent transit stop	2019	73%	≡ No change
	50% of housing within ¼ miles of a frequent transit stop	2019	43%	≡ No change
	80% renewable energy sources		51%	↑ Trending toward target
15% reduction in energy use		8%	↓ Trending toward target	
	50% recycling rate (zero-waste)		42%	≡ No change
	38% citywide tree canopy cover	2019	39%	↑ Trending toward target
	80% of residents living within 1/3 mile of a park, open space, and/or trail	2020	73%	≡ No change
	TBD Stream Health (metric TBD)	2023	TBD	Watershed Management Plan is 60% complete.

Tree Canopy Goals

- Grow and preserve our tree canopy
- City in a park
- Preserve neighborhood character
- Habitat and natural systems preservation
- Prevent urban heat island issues



Tree Canopy Assessment



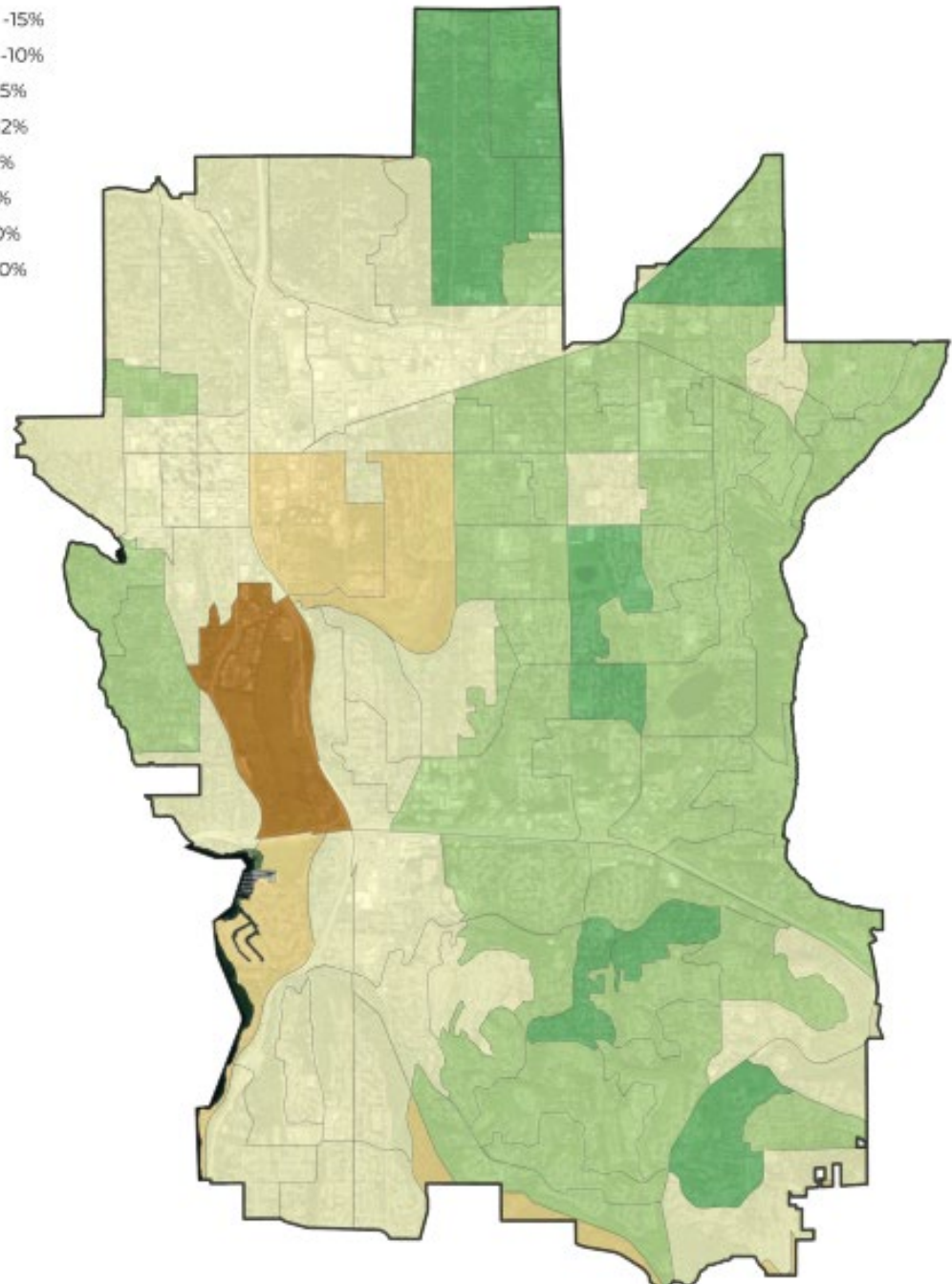
City of Bellevue	Land Area	UTC 2011		UTC 2019		UTC Change	
	Acres	Acres	%	Acres	%	Acres	%
Urban Tree Canopy	21,442	8,051	37.5%	8,461	39.5%	411	1.9%

Overall tree canopy growth between 2011 and 2019 offset tree losses throughout the city.

Tree Canopy Change

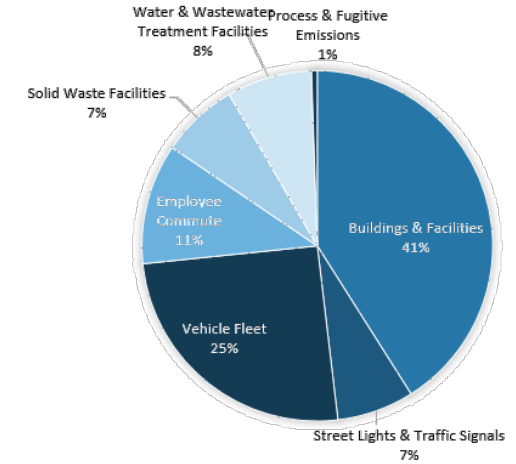
Neighborhoods with dense tree canopy grew significantly (e.g. Bridle Trails and Cougar Mountain), but tree canopy declined in nearly half of the city.

URBAN TREE CANOPY CHANGE
BY CENSUS BLOCK GROUPS

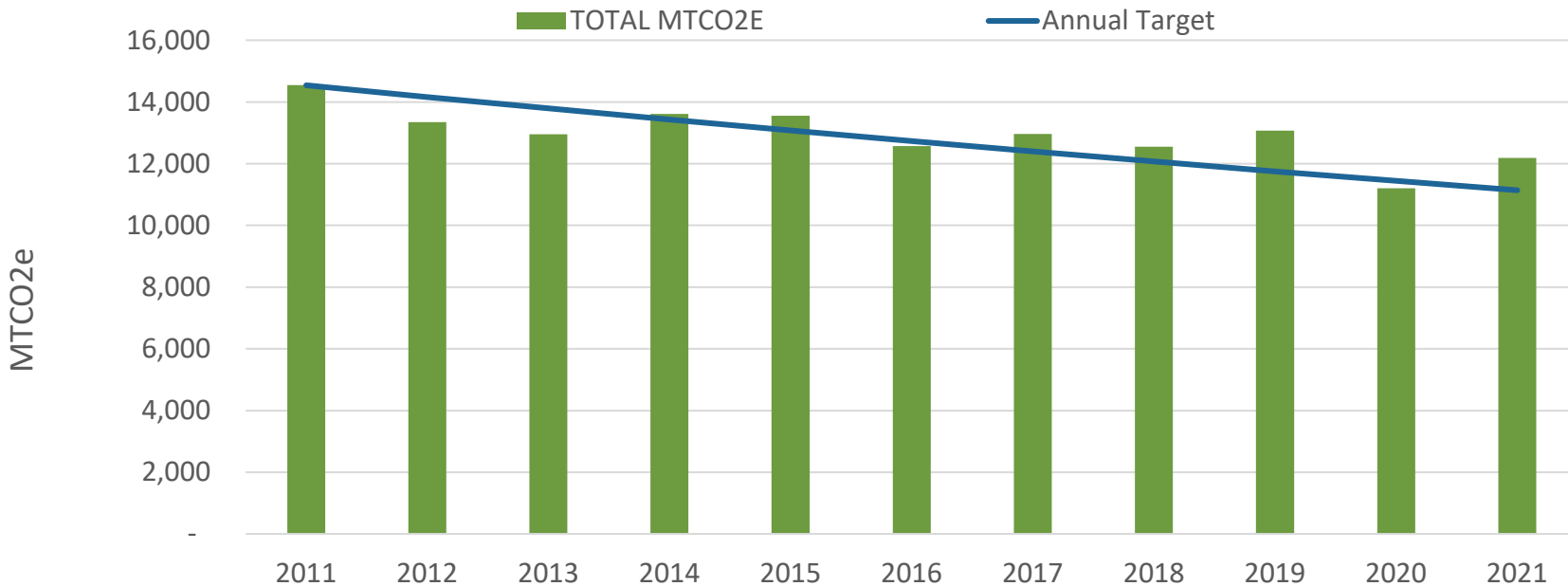


Municipal Operations GHG Emissions

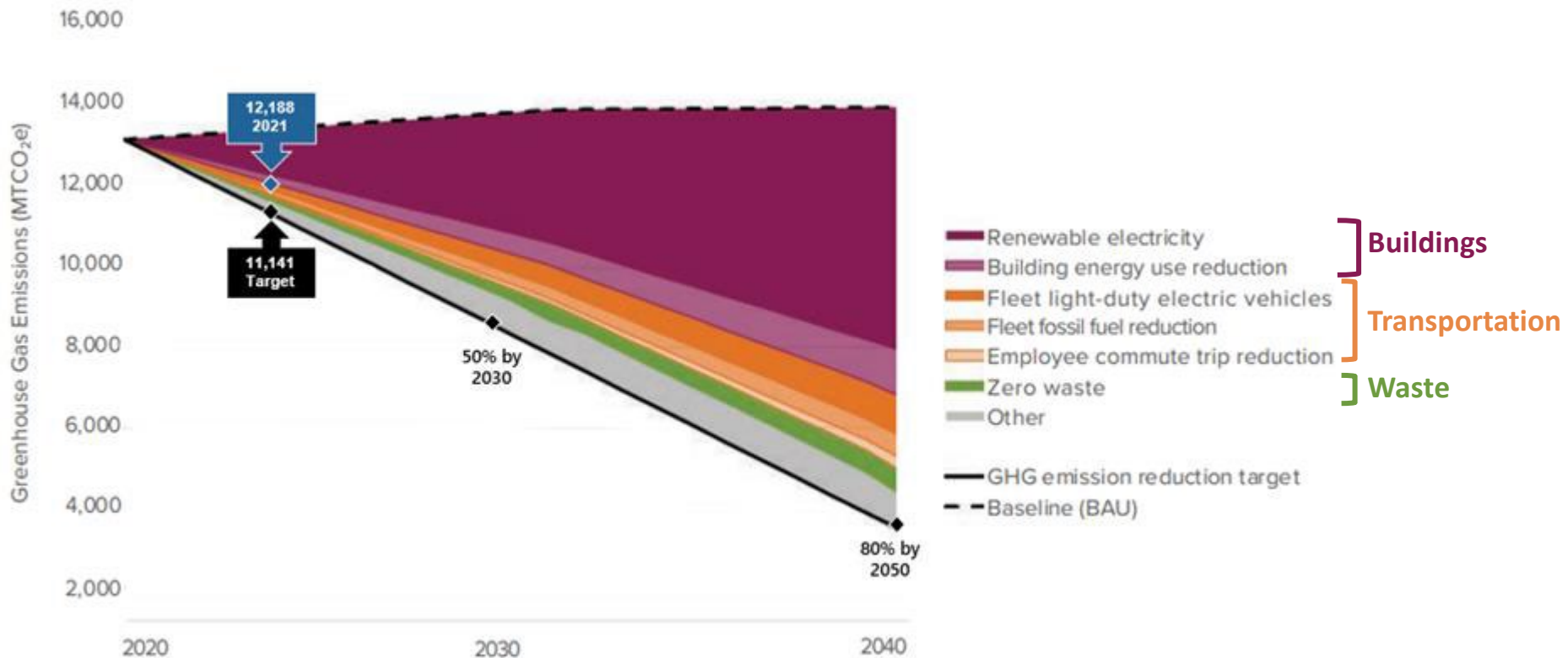
- Municipal Operations GHG emissions decreased 16% between 2011-2021, compared to a targeted reduction of 25% by 2021.

















Municipal GHG Emissions



GHG Emissions Progress - Municipal



Municipal Operations Summary






2030 Short-Term Targets		2011 - 2021	Progress Update		
	50% reduction in municipal GHG emissions		16%	↓	Trending toward target
	40% of city employees commuting alone		56%	↑	Trending away from target
	50% of light-duty fleet vehicles are electric		3%	≡	No change
	15% fossil fuel reduction from fleet vehicles		7%	↓	Trending toward target
	100% renewable energy used in city operations		70%	≡	No change
	25% reduction in building energy use		27%	↓	Trending toward target
	80% recycling rate (includes compost & recycling)		55%	↓	Trending away from target
	5% decrease in indoor & outdoor water		53%	↑	Trending away from target
	72% of forest in healthy condition		75%	↕	Exceeded target

Plan Implementation Progress

Sustainable Bellevue: 2021 - 2025 Environmental Stewardship Plan

Summary of Implementation Progress

July 2022

Status	# of Actions	Description	% of Total
 Started	32	Work has started / implementation is partially complete	41%
 Ongoing	26	Work has been incorporated into ongoing operations	33%
 Complete	4	Work has been completed	5%
 Not started	16	Work has not yet begun	21%
 Barrier	0	Need to re-strategize approach. There is a barrier to implementing the action.	0%
Total	78		100%

What We're Hearing

- Appreciation for work done to date
- Not on track to meet our goals
- Need to move faster
- Need to meet our environmental goals while accommodating growth
- Desire for more resources



Sustainability Townhall and Comprehensive Plan Deep Dive, 7/14/2022



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