

Climate Action & Adaptation Plan

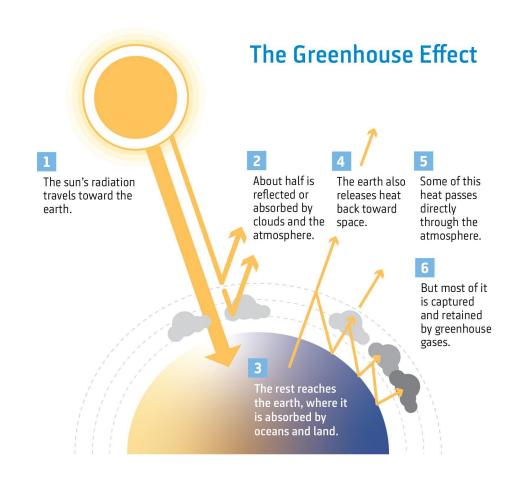
CAAP Foundations Series

Presented by the Office of Sustainability

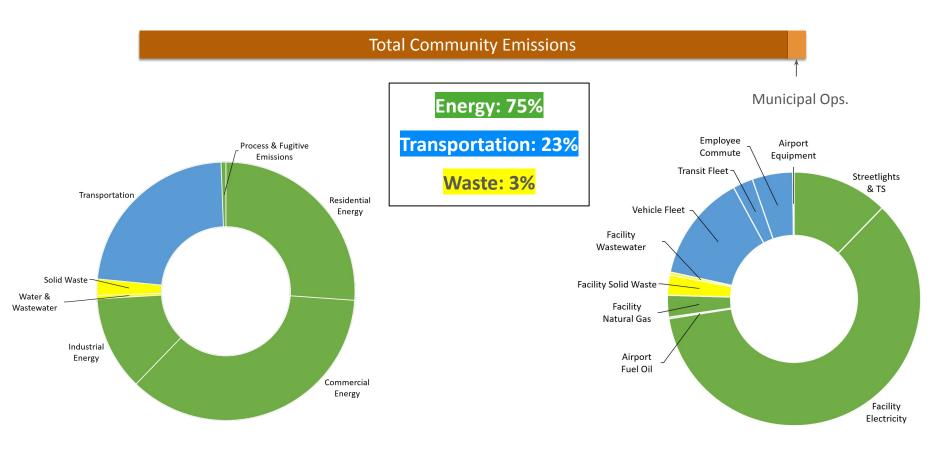
What is climate change?

Climate change is a long-term shift in climate patterns including temperature and precipitation.

Greenhouse gas (CO₂, CH₄, N₂O, etc.) emissions from human activities are the primary cause of the current climate change and pace of climate change effects.

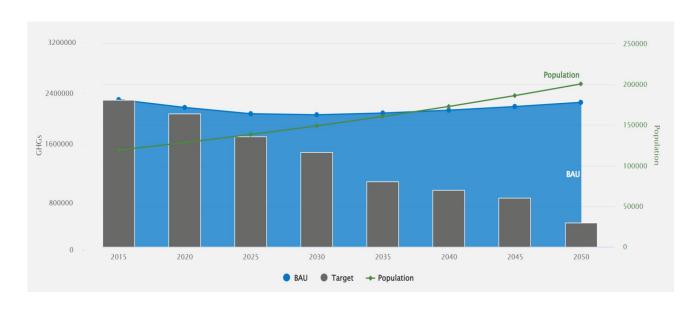


Where do GHGs come from in our community?



Where are we headed if we continue current trends?

If we continue with Business as Usual (BAU), we will see little to no reduction in total GHG emissions.



If we fail to reduce GHG emissions, we will see significant impacts in our ability to live, work, learn, and play in Columbia.

Why do we need to act urgently?

The climate vulnerability analysis assessed Columbia's exposure to climate risk.

- Columbia has already begun to experience impacts of climate change with increased average temperatures, increased precipitation, poorer air quality, and a longer tornado season.
- Action is vital to prepare for the effect of GHGs already in our atmosphere and to minimize future consequences.

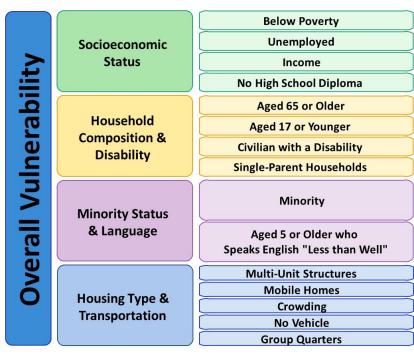
Maintaining the health of our community demands action.



Why do we need to consider equity?

While the entire community will experience the effects of climate change, existing inequalities and vulnerabilities will cause some in our community to bear more of the negative impacts and/or have less ability to adapt.

- Vulnerable populations face more barriers to prepare for, cope with, and recover from the impacts of climate change
- Understanding the comparative risks to vulnerable community members is vital to ensuring just climate action



What is the purpose of the CAAP?

1. To reduce greenhouse gas (GHG) emissions communitywide through targeted municipal, residential, industrial and commercial activities.







2. To prepare Columbia's natural and built environments (neighborhoods, resources and systems) and people to be more resilient to the impacts of climate change.





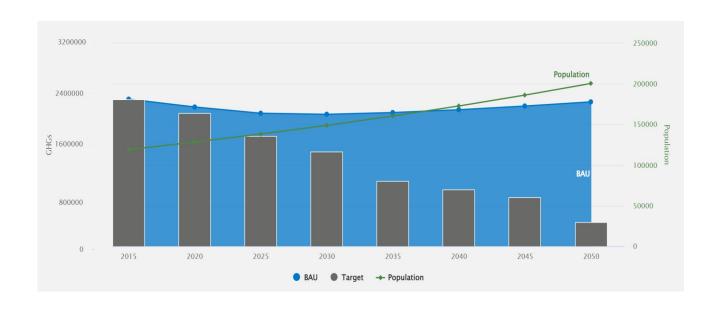


What did the community support?

- Immediate action to reduce GHG emissions from energy and land use
- Immediate action to prepare for a changing climate.
- Columbia being a leader when it comes to proactively addressing climate change.
- The CAAP, believing it effectively provides direction to City leaders on actions to address climate change.



What are the CAAP GHG Reduction Goals?



Communitywide Target: 35% by 2035 | 80% by 2050 | 100% by 2060

Municipal Operations Target: 50% by 2035 | 100% by 2050

What sectors are included in the CAAP?



Natural Resources



Transportation



Health, Safety & Well-Being



Housing, Building & Development



Waste



Energy

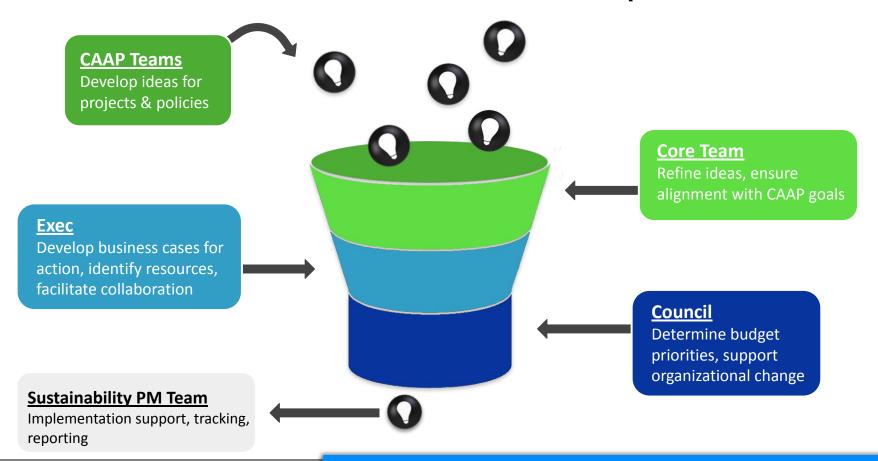
Who is involved in the CAAP?

• Interdepartmental Teams: Clean Energy, Healthy Housing, Clean Transportation, Good Stewards, and Resource Stewardship

 Office of Sustainability: Tracks progress and provides reports to City Council and the public

 Climate and Environment Commission: Advises on reports, identifies opportunities for and barriers to equitable implementation, engages the public, and evaluates potential additions to CAAP.

How do CAAP-related actions move from idea to implementation?



What do CAAP-aligned actions look like?



Use of native vegetation in green infrastructure



Energy Efficient Building Design



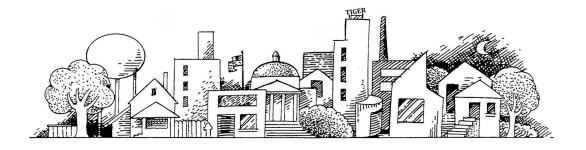
Golf Cart Fleet Electrification

What do equity-conscious CAAP strategies look like?

Transportation	Housing	Natural Resources
Increase transportation accessibility:	Make Home Energy Scores publicly available to:	Create a community heat map to:
 Continue to improve a public transit/transportation system that benefits vulnerable populations Improve walk- and bikeability in the community to reduce the burden of transportation 	1) Increase accessibility and transparency of home energy usage and cost 2) Encourage landlords/ support all homeowners to increase energy efficiency in homes	 Understand how areas within the community are impacted by extreme heat Inform strategies to reduce the impact of extreme heat in areas of highest need and vulnerability

What levers are used to enact change?

LEVER	EXAMPLE - Reduce Travel by Car
Policy	Evaluate zoning codes to favor walkability
Capital Improvement Project (CIP)	Build on-street protected bike lanes
Monetary Instrument	Incentivize carpooling/last mile travel options,
Education / Information	Publicize Go COMO App, promote incentives
Partnership / Collaboration	Coordinate with CIDs to improve walk/ride pathways, Partner with employers to increase use of transit
Management Practice	Supervisor participation in Bike, Walk & Wheel Week



Questions?

Learn more at comoclimateaction.org