LARIMER COUNTY: COMMISSIONERS OFFICE



OPERATIONAL GREENHOUSE GAS INVENTORY AND INTERNAL CLIMATE ACTION, RESILIENCE, AND EDUCATION PLAN REPORT

JUNE 2023







Built Environment

Sustainable Business

Energy Efficiency

Wellbeing & Resilience

Green House Gas Inventory

> Wildfire **Partners Incentives**

Mobility

EV Charging Station Roadmap

Vehicles

Natural Environment

Water Reduction

(mid-point Conservation update) and Public Access

Electric

July

May

June

August

Climate

Smart and

Future

Ready

Greenhouse Gas Inventories

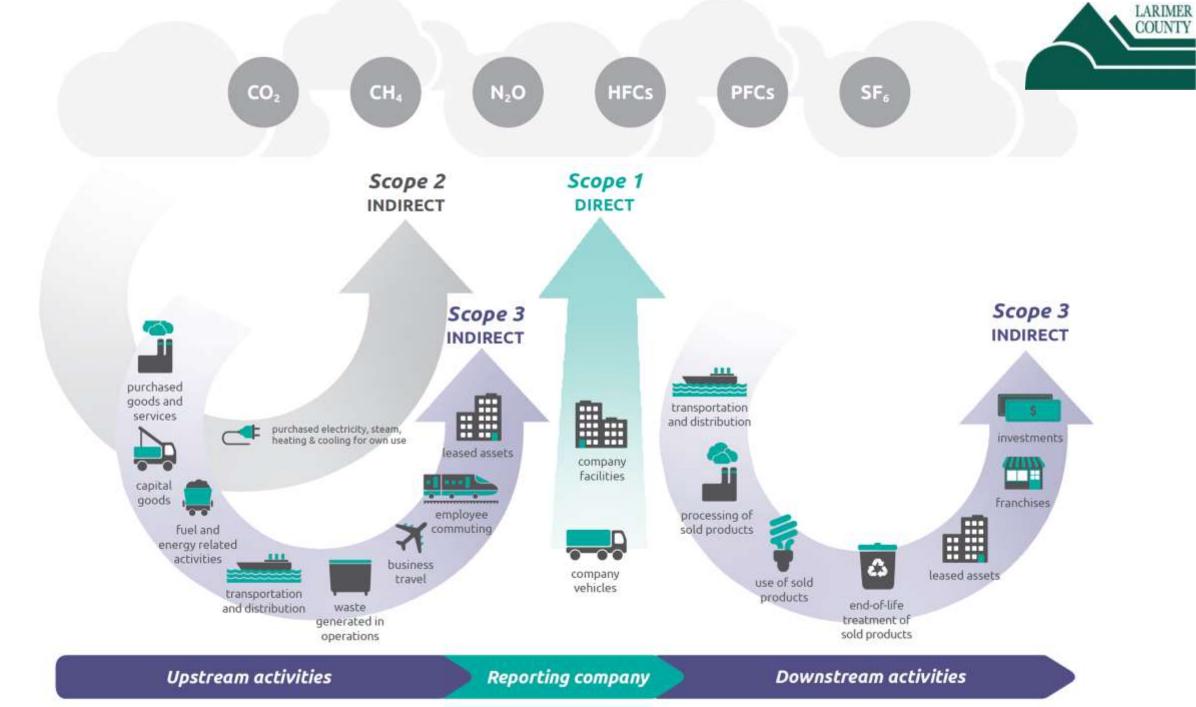


Why do a Greenhouse Gas (GHG) Inventory?

- Taking climate change seriously and desire an evidence-based approach
- Helps to focus efforts
- Maybe possible to reduce financial exposure to changing climate transition risk (e.g., GHG reduction target in terms of direct carbon tax savings)

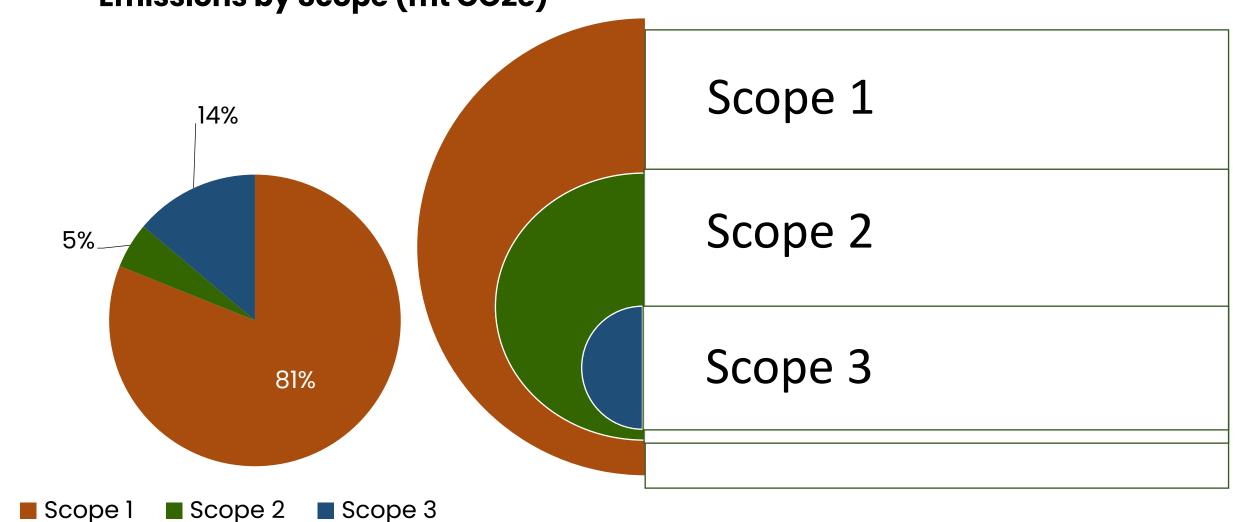
Keep these in mind ...

- GHG inventories are a lagging indicator
- A changing climate is NOT merely a technical issue
- GHG inventories do not clearly indicate all that local governments can do to mitigate and adapt to changing climate conditions



Larimer County Operations Greenhouse Gas Emissions by Scope (mt CO2e)

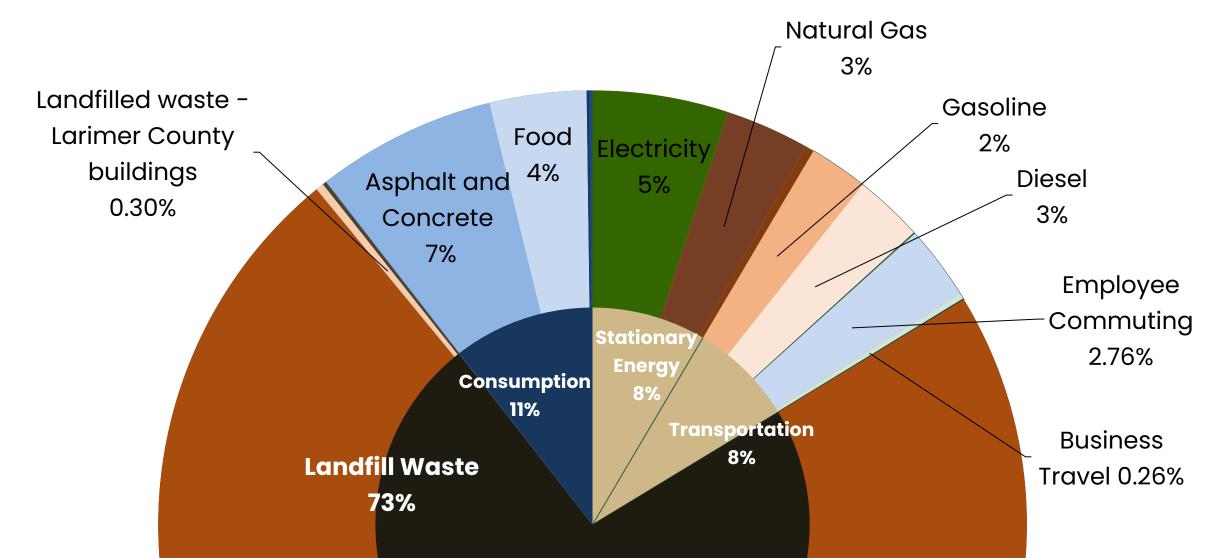




2022 Operational Greenhouse Gas Emission Total 115,106 mtCO₂e

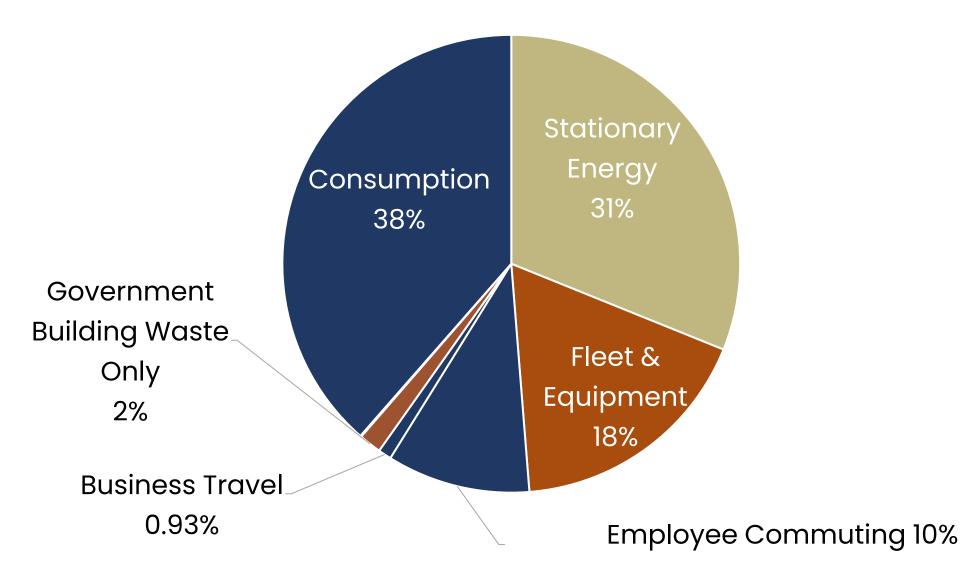


Larimer County Operations Greenhouse Gas Emissions by Sector and Source(mt CO2e)





Larimer County Operations Greenhouse Gas Emissions by Sector without Landfill (mt CO2e)

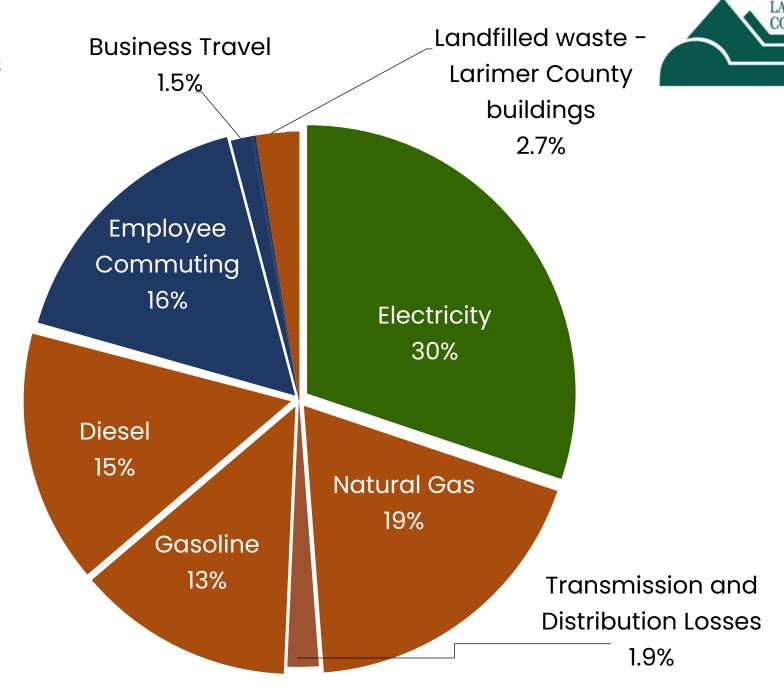




Consumption of Materials Operational Greenhouse Gas Emissions

Emission Source	Emissions (mt CO2e)	% of Total GHG (non-landfill)	
Asphalt and Concrete	7,683	24.4%	
Food	4,160	13.2%	
Computer Hardware	94	0.3%	
Paper	153	0.5%	
Fertilizer	24	0.1%	
Consumption of Materials Total	12,114	38.5%	

Greenhouse gas emissions
by Source (mt CO2e)
without
Landfill Waste or
Consumption Sources





Larimer County Greenhouse Gas Operations Emissions Inventory comparison between 2010 and 2022

(without consumption data)

Source	2010 Emissions (mt CO ₂ e) 2022 Emissions (mt CO ₂ e)		% Change	
Natural gas & propane	3,860	3,596	-7%	
Building electricity	14,280	5,818	-59%	
Fleet & equipment	6,075	6,075 5,538		
Refrigerants	266	25	-91%	
Landfilled waste	67,326	83,677	24%	
Business travel	509	293	-42%	
Comparable emissions total (mt CO ₂ e)	92,316	98,948	7%	



		ICARE Goals IMPACTING Operational GHG Emissions	
Built Environment, Waste, and Economy			
		Reduce County energy use 30% through enhancing energy efficiency and reduce GHG emissions through use of renewable energy sources by 2030.	
		Build the infrastructure required to recycle, reuse and divert waste to achieve 40% waste diversion from the landfill by 2025 and 80% diversion by 2030.	
		Establish guidance for the procurement of goods and services which are consistent with the strategies and goals outlined in this plan.	



	ICARE Goals IMPACTING Operational GHG Emissions				
Mobility, Delivery of Goods, and Internet Services					
	Increase average miles per gallon of the County light-duty fleet by 20% through tr to alternative fuel vehicles, adoption of an idling policy and more fuel-efficient veh 2030.	I			
	Reduce County employee miles traveled 20% by 2030 and increase the number of services that reduce resident vehicle miles traveled.	of			



	ICARE Goals Supplementing GHG Related Goals			
Built Environment, Waste, and Economy				
	Increase share of industry mix to include more renewable energy, energy efficiency and greenhouse gas reduction firms in the region.			
Mobility, Delivery of Goods, and Internet Services				
Increase regional paved trails 50% by 2043. Increase EV Infrastructure in unincorporated Larimer County.				

= Planning



ICARE Goals Supplementing GHG Related Goals			
Natural Environment, Water and Agriculture			
	Reduce average annual irrigation water 20% by 2027.		
	Conserve 74,108 acres of open space properties within Larimer County to protect habitats and preserve biodiversity by 2043.		
Wellbeing and Resilience			
	Work with local food producers and distributors to increase access to sustainable and locally produced food sources.		
	Increase employee and resident resilience by informing and incentivizing actions that promote improved air quality.		
	Streamline incentives and lead proactive hazard mitigation and disaster avoidance by implementing 3 mitigation or resilience projects with at least 3 community partners annually.		

= In Progress

= Completing



ICARE Leadership Accomplishments



- Colorado Communities for Climate Action (CC4CA)
- Government Equity Assets and Readiness Self-Assessment

Strategies to engage in community	0-25	26-50	51-75	76-100+
driven climate equity projects	Relationship Building	Inclusive Access	Culture Shift	Power Shift

- Employee Sustainability Awareness Team
 - Sustainability Newsletter Launch
 - Recycling Center Tour
 - E-Waste Drive