



# Updating the County's Sustainable Operations Action Plan (SOAP)

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WEBINAR 2 OF 2

Office of Energy and Sustainability

# Employee Engagement Process

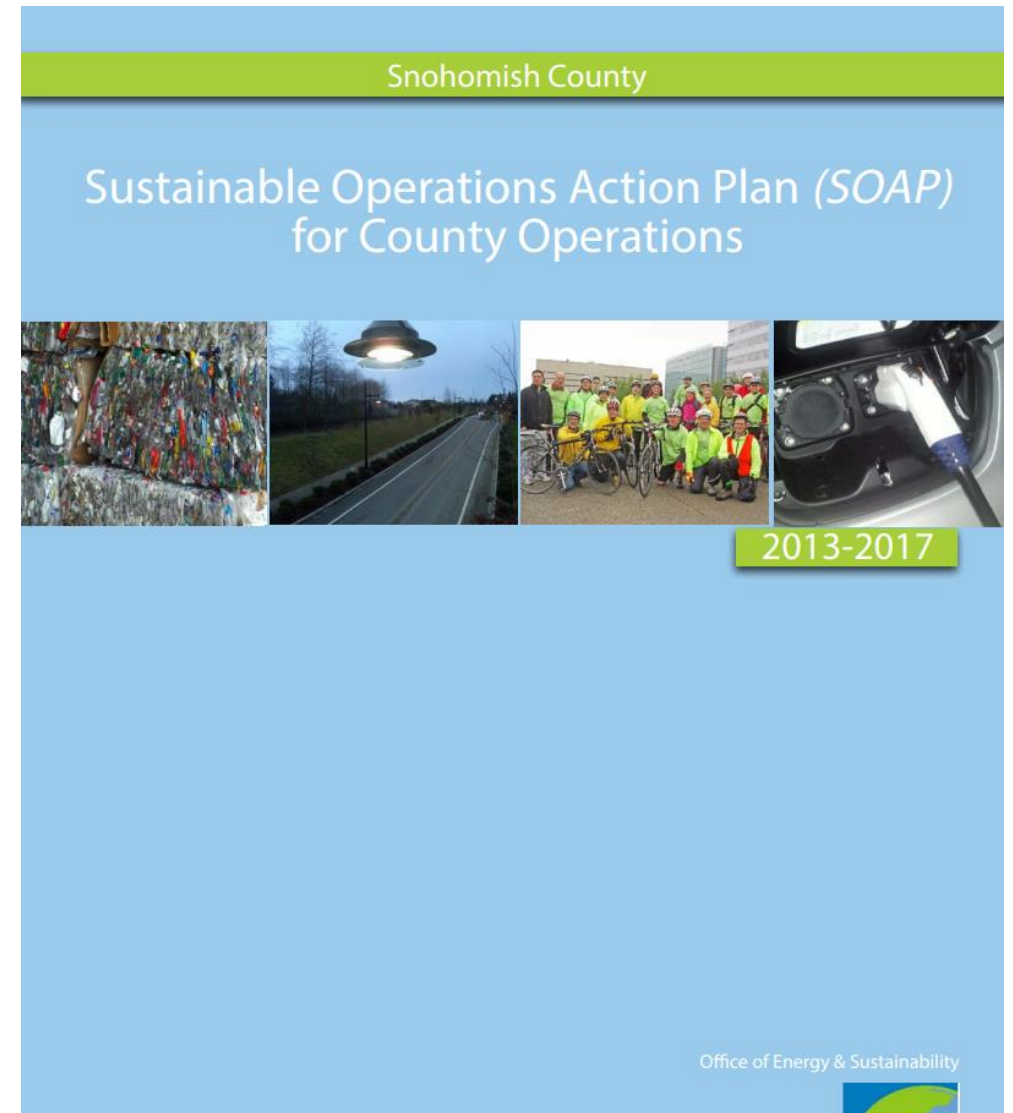
WEBINAR 1 – ‘Progress Review’	WEBINAR 2 – ‘Moving Forward’	SURVEY
<ul style="list-style-type: none"><li>• SOAP update timeline</li><li>• What is the Office of Energy and Sustainability?</li><li>• What is the SOAP?</li><li>• SOAP progress report – successes and more action needed</li></ul>	<ul style="list-style-type: none"><li>• SOAP update timeline</li><li>• New commitments for county operations</li><li>• Greenhouse gas emissions (GHG) overview for county operations</li><li>• Proposed SOAP changes</li></ul>	<p><b>Provide your input!</b></p>

# Timeline for SOAP Update

TIMELINE	DESCRIPTION
Fall 2020 – Winter 2021	Greenhouse gas emissions inventory, data collection, and analysis
Winter 2021	Strategic planning begins
Winter – Spring 2021	Department and stakeholder engagement, survey, and input sessions
Spring 2021	Data cohesion and analysis
Summer 2021	Plan development and issue initial draft
Fall 2021	Department and stakeholder input, revisions, and issue second draft
Fall 2021 – Winter 2022	Final draft issued and adoption process

# What is the SOAP?

- Sustainable Operations Action Plan
- Climate action and environmental stewardship for County government operations
- Originally developed by County internal Green Team
- Unanimously adopted by County Council on September 3, 2013
- Executive Order 13-48A issued on September 24, 2013
- Update every 5 years



# GHG Goals for County Government Operations

<b>EXISTING GOAL</b>	20% below 2000 levels by 2020	On-track to meet/exceed target
<b>PROPOSED GOAL</b>	Carbon neutral by 2050 <sup>1</sup>	More action needed

*1. Includes Scope 1 and Scope 2 emissions, and a limited set of Scope 3*

# New Commitments for County Operations

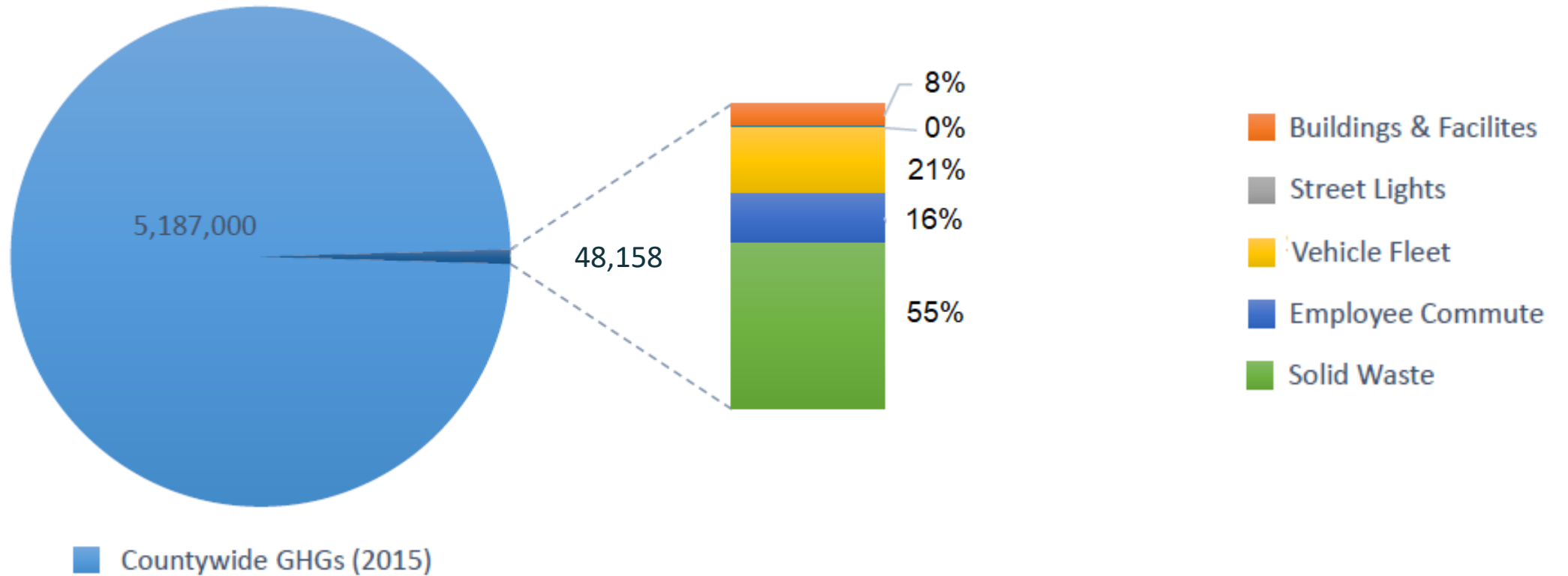
- **Clean Energy Joint Resolution JR-19-006 (passed in 2019)**
  - 100% clean electricity by 2030
  - 100% clean energy by 2045
  - Clean energy plan for government operations
  - New, dedicated energy efficiency fund for conservation retrofits in county-owned facilities
  - Adopt a Green Fleet Policy
  - Adopt a Green Building Policy
  - Train employees on life cycle cost assessment
  - Install solar power with battery storage at county-owned facilities, where feasible
  
- **New proposed goal for county operations: Carbon neutral by 2050**

# Overview of GHGs from County Government Operations

For more detailed information, please see the [2018 Greenhouse Gas Emissions Inventory for Snohomish county Government Operations](#)

# 2018 GHGs from County Operations

County Government GHGs Comprise <1% of county community GHGs (MT CO<sub>2</sub>e)





# 2018 GHGs from County Operations

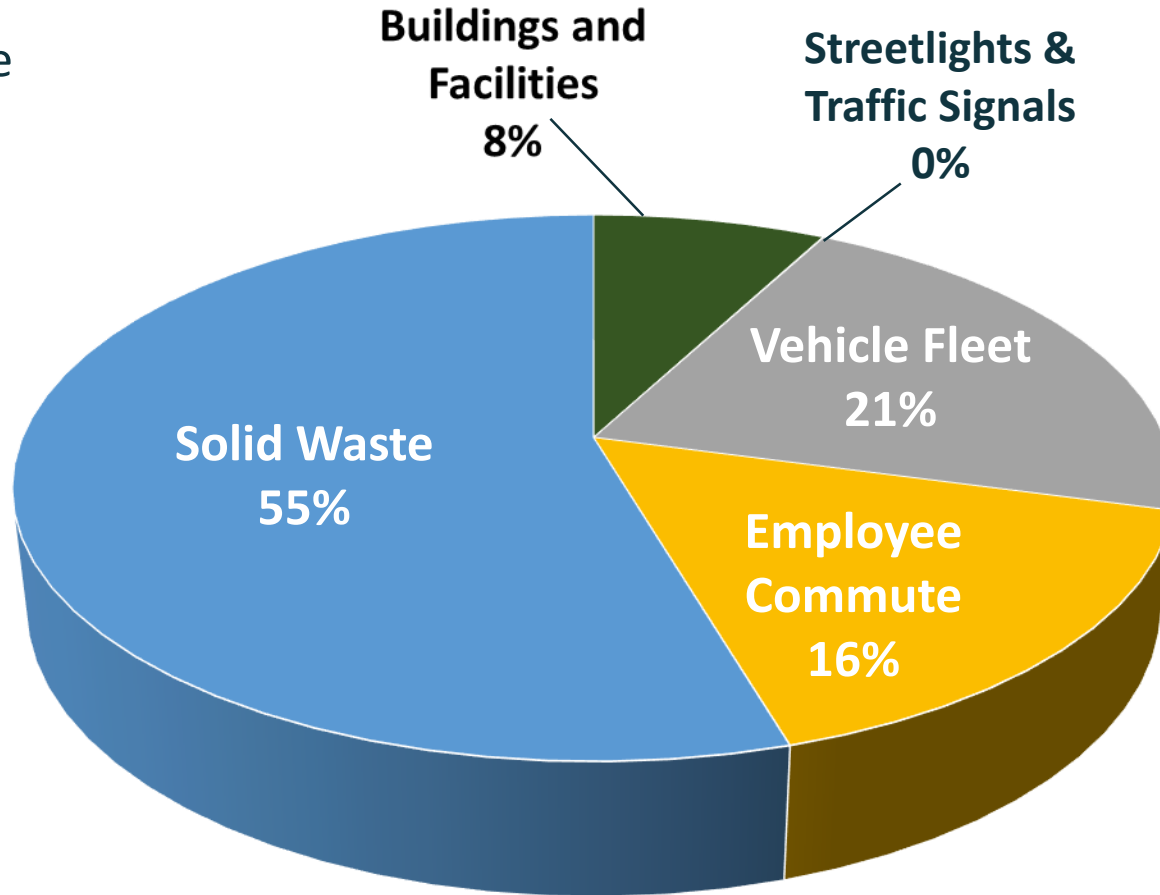
48,158 metric tons of CO<sub>2</sub>e is SIGNIFICANT and the equivalent emissions of:



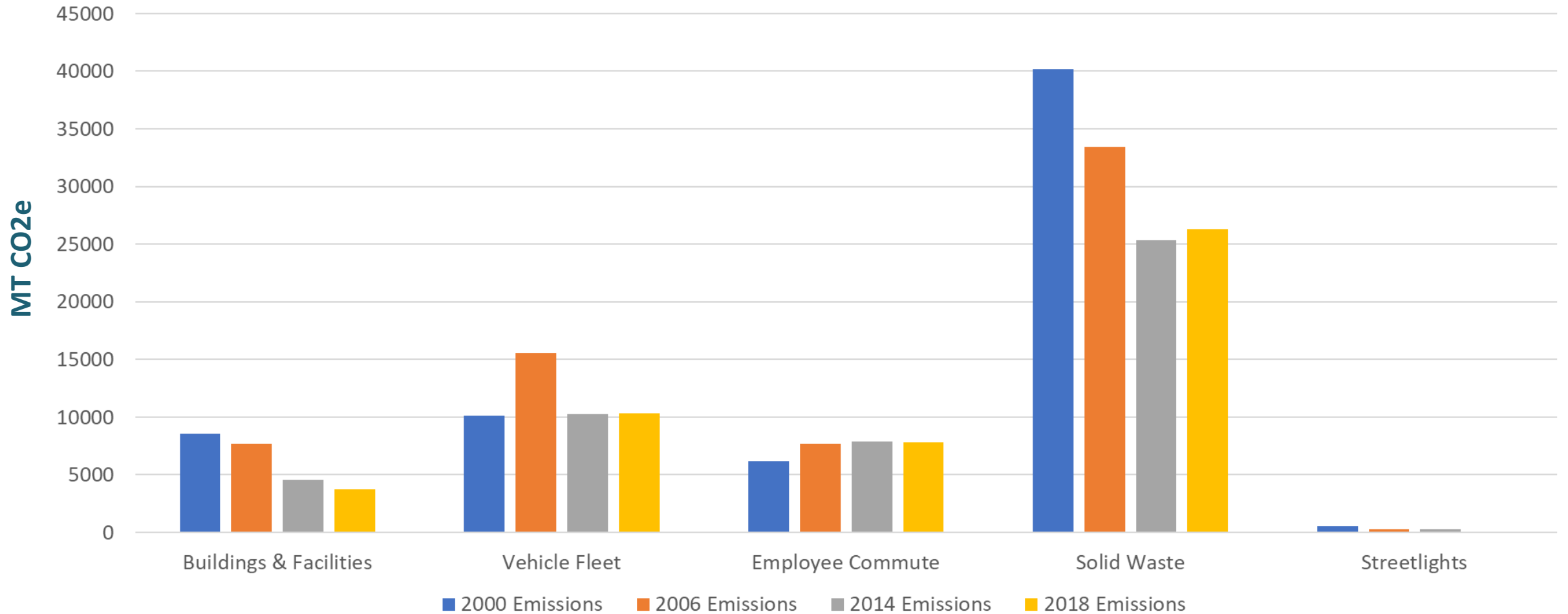
Tackling climate change is a 'Team Sport'!

# 2018 GHGs from County Operations

TOTAL: 48,158 MT CO<sub>2</sub>e

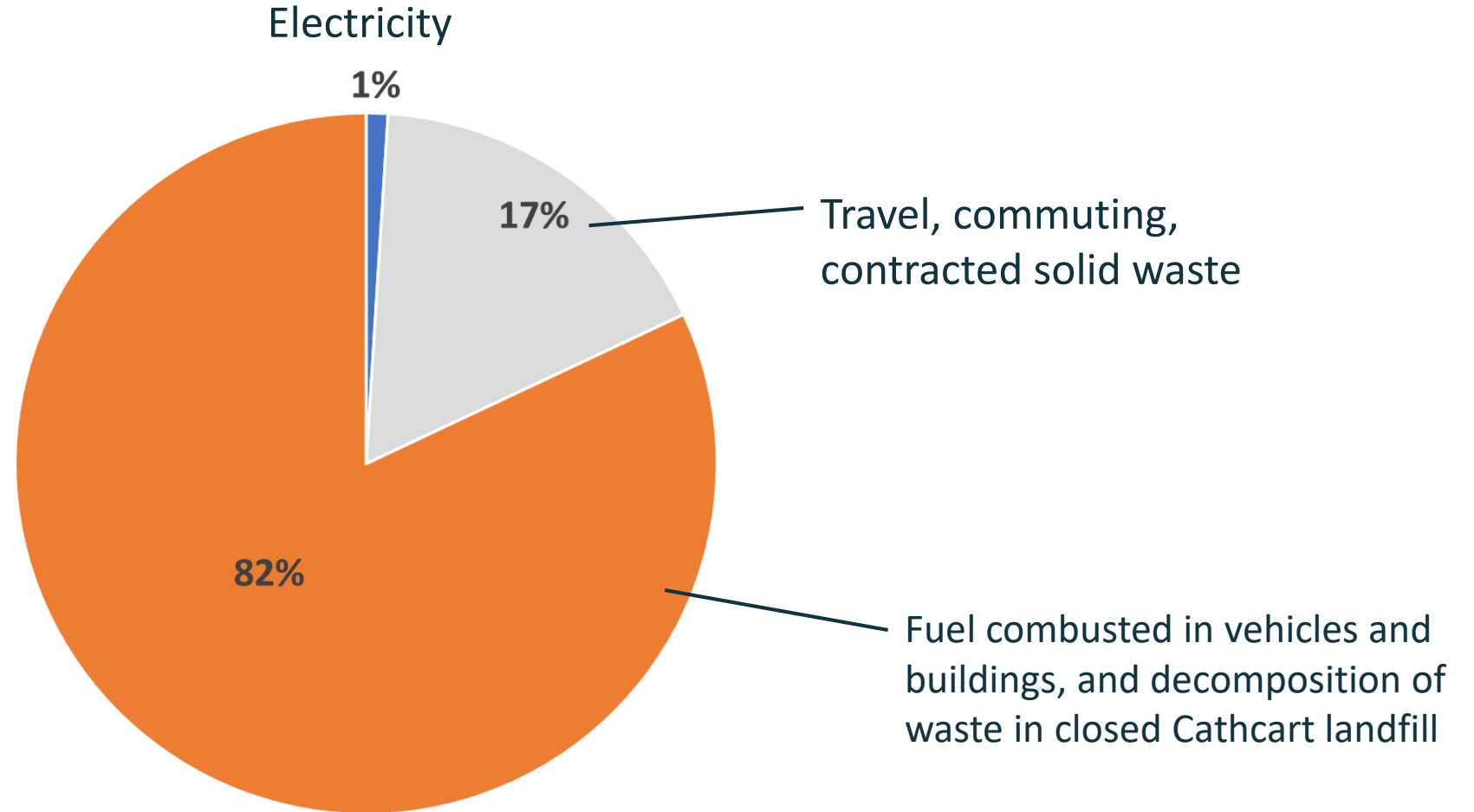


# 2018 GHGs from County Operations

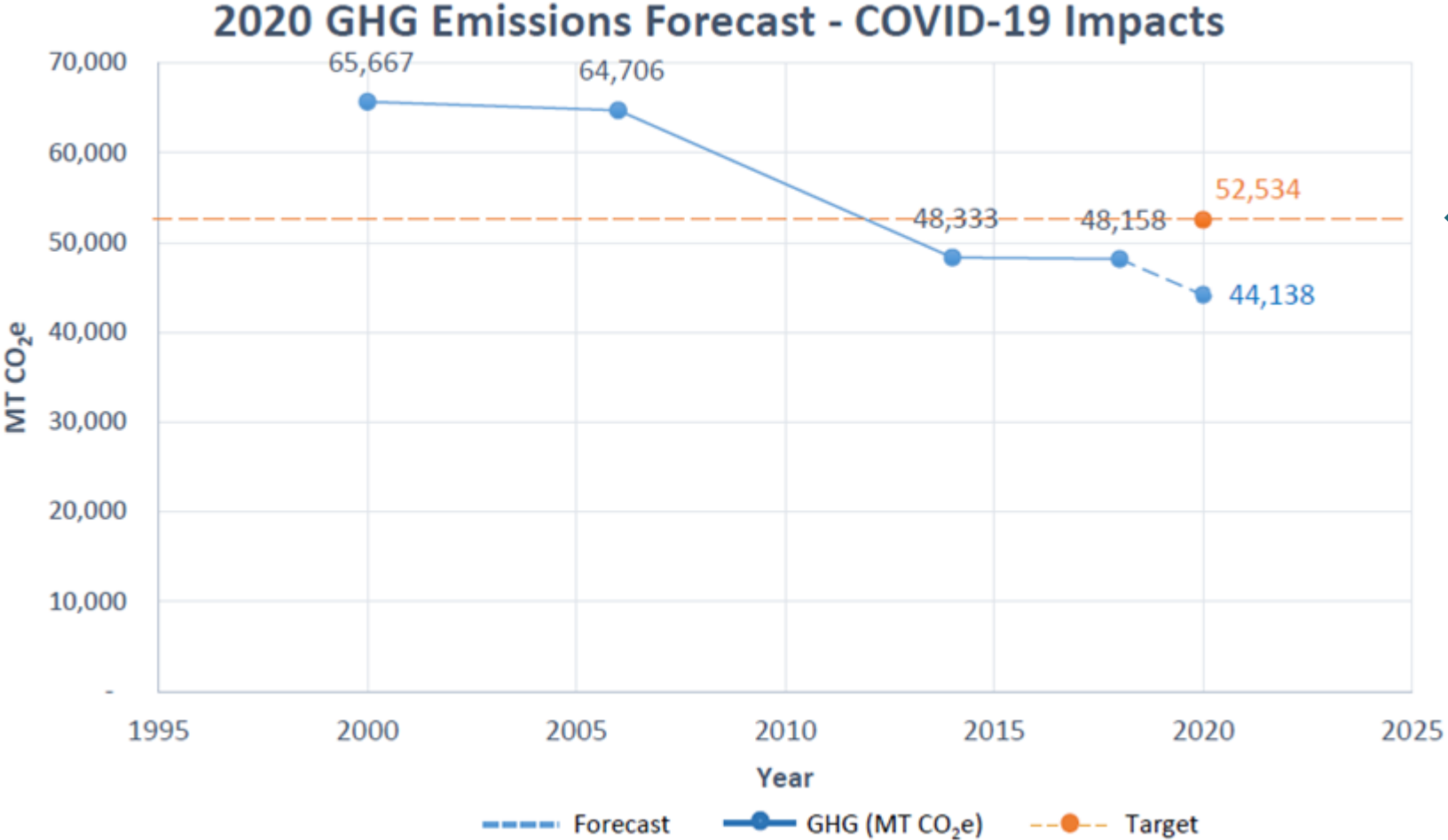


# 2018 GHGs from County Operations

**TOTAL 2018 GHGs:  
48,158 MT CO<sub>2</sub>e**



# Projected GHG Impacts from COVID-19



**Existing Goal:**  
20% below 2000  
levels by 2020

# Projected GHG Impacts from COVID-19

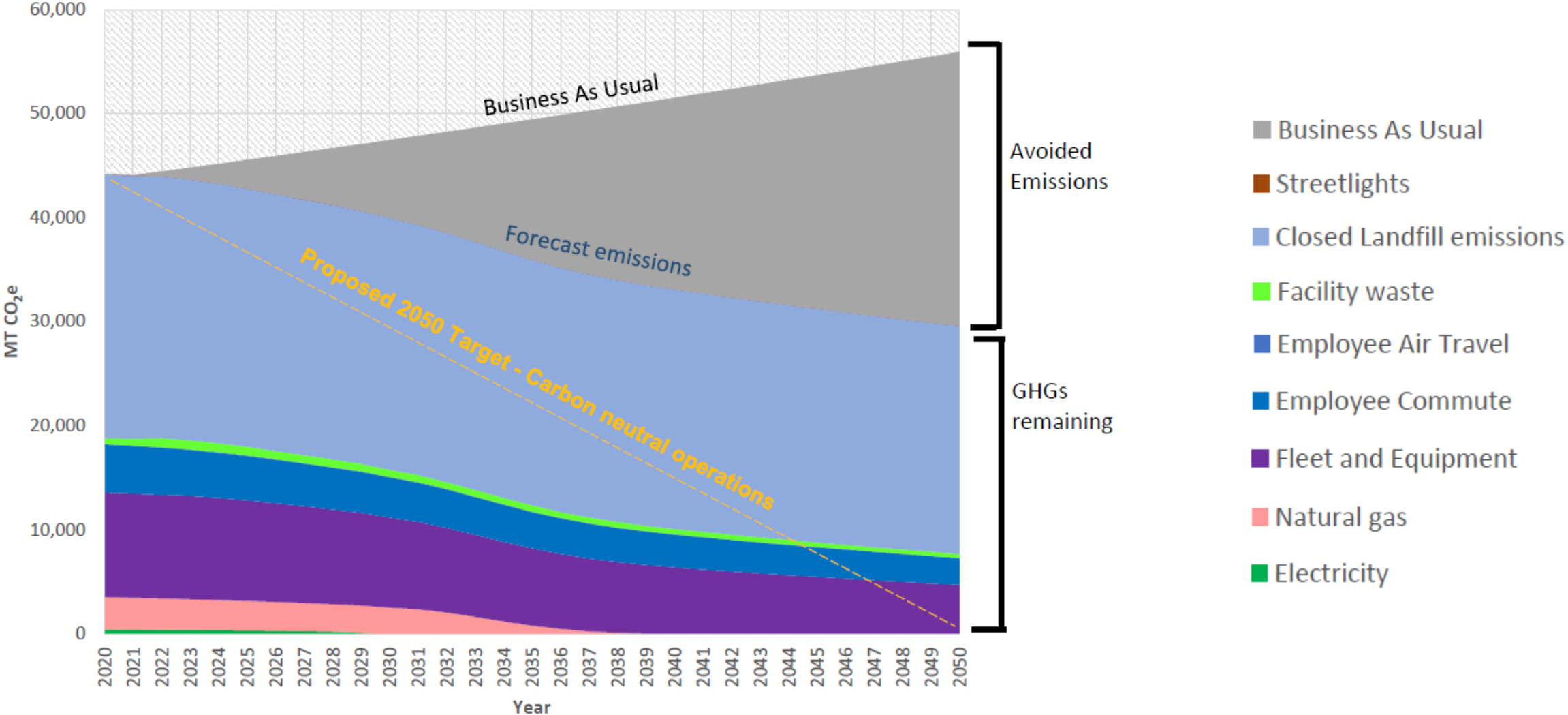
<u>Sector</u>	<u>Subsector</u>	<u>2000 GHGs</u>	<u>2006 GHGs</u>	<u>2014 GHGs</u>	<u>2018 GHGs</u>	<u>2020 Forecast</u>	<u>% Change - 2020 vs. 2000</u>
<b>Buildings and Facilities</b>	Electricity	6,033	3,641	1,396	456	433	-92.8%
	Natural Gas	2,530	4,037	3,184	3,270	3,107	22.8%
	<b>Subtotal</b>	<b>8,563</b>	<b>7,678</b>	<b>4,579</b>	<b>3,725</b>	<b>3,539</b>	<b>-58.7%</b>
<b>Transportation</b>	Fleet and Equipment	10,153	15,593	10,266	10,342	10,032	-1.2%
	Employee Commute	6,193	7,707	7,859	7,722	4,633	-25.2%
	Employee Air Travel	N/A	N/A	N/A	79	32	-
	<b>Subtotal</b>	<b>16,346</b>	<b>23,300</b>	<b>18,125</b>	<b>18,143</b>	<b>14,697</b>	<b>-10.1%</b>
<b>Solid Waste</b>	Facility waste	200	254	491	970	582	191.0%
	Closed Landfill emissions	40,000	33,200	24,872	25,305	25,305	-36.7%
	<b>Subtotal</b>	<b>40,200</b>	<b>33,454</b>	<b>25,363</b>	<b>26,275</b>	<b>25,887</b>	<b>-35.6%</b>
<b>Streetlights</b>	Electricity	558	274	266	16	16	-97.1%
	<b>Subtotal</b>	<b>558</b>	<b>274</b>	<b>266</b>	<b>16</b>	<b>16</b>	<b>-97.1%</b>
<b>Total</b>		<b>65,667</b>	<b>64,706</b>	<b>48,333</b>	<b>48,159</b>	<b>44,139</b>	<b>-32.8%</b>
Total excluding landfill		25,667	31,506	23,461	22,854	18,834	-26.6%

## Projected Impacts from COVID-19

- Building energy use down 5%
- Employee commute down 40%
- Employee air travel down 60%
- Facility waste down 40%

# 2050 GHG Forecast

Forecast Emissions Through 2050



# Overview of Proposed SOAP Changes

- Organization and structure
- Potential impact (with metrics where feasible)
- Budget for implementation



# SOAP Structure – Previous

**7 GOALS**



**24 Objectives**



**43 Strategies**



**Prioritized  
Target dates for completion  
Resources**

**Lead department and supporting departments**

**GOAL 1**

Implement Green Building Practices and Use Green Materials

**Implementation Timeline**

**OBJECTIVES**

- 1A.** Establish minimum green building practices for County owned buildings, including new construction and remodels.
- 1B.** Protect human health and the natural environment by minimizing use of toxic and hazardous substances in daily operations and in the design, construction and maintenance of facilities.
- 1C.** Establish green project guidelines for County capital projects where green building standards are not applicable.
- 1D.** Encourage green building practices within the community.

**STRATEGIES**

		Target Start & End Dates	Priority	Cost/ Time	Lead Dept(s)	Supporting Dept(s)
Objectives 1A-1C	(i) Assemble an inter-disciplinary team, including industry experts, to develop internal standards for green building design, construction, and capital projects.	Q4 2013 - Q1 2015	High	Medium	OES	Facilities, PW, PDS, Parks, Airport, Finance
	(ii) Review King County's sustainable infrastructure scorecard as a potential model for internal County projects.	Q4 2013 - Q1 2015	High	Low	OES	Facilities, PW, PDS, Parks, Airport
	(iii) Identify possible green building incentives that the County can offer to the community.	Q4 2013 - Q1 2015	Medium	Medium	OES	PDS, PW
Objective 1D	(iv) Increase the community's access to information on energy efficiency, green building, and utility rebates on the County website and at the County campus.	Q1- Q4 2014	Medium	Medium	PDS	OES, DIS, PW, Parks
	(v) Partner with local agencies to host workshops on green design and construction for County staff and community stakeholders.	Ongoing	Low	Medium	OES	All Depts

# SOAP Structure - Proposed

## Racial and Social Equity

### 7 Goal Areas

Greenhouse Gas Emissions  
Transportation & Mobility  
Energy & Water  
Consumption & Materials  
Green Building  
Ecosystems & Open Space  
Adaptation and Resiliency



Impact  
Prioritization  
Resources  
Timeline  
Lead Dept(s)  
Key Performance Indicator

# Term Definitions

**GOAL AREA:** Seven overarching priority areas for the 2020 SOAP Update

**GOAL:** High-level statement of intended outcomes

**STRATEGY:** Approach to achieve a goal

**ACTION:** Tool to achieve an associated strategy

**TARGET:** Measurable variable to track progress and measure success

# SOAP Goal Areas & Goals - Draft

<b>GOAL AREA</b>	<b>GOAL</b>
<b>Greenhouse Gas Emissions</b>	By 2050, achieve net carbon neutrality for county government operations.
<b>Transportation and Mobility</b>	Increase the efficiency of vehicle fleet and fuel consuming equipment, and minimize their greenhouse gas emissions.
<b>Energy and Water</b>	Increase the efficiency of energy and water consumption in county facilities and operations, and minimize the consumption of these resources.
<b>Consumption and Materials Management</b>	Minimize operational resource use, maximize reuse and recycling, and choose products and services with low environmental and carbon impacts.
<b>Green Building</b>	Build, maintain, and operate county facilities consistent with best practices for green building and sustainable development standards.
<b>Ecosystems and Open Space</b>	Manage and restore county owned parks and natural areas to maximize biological carbon storage, promote public health, and protect local species and habitat.
<b>Adaptation and Resiliency</b>	Integrate climate preparedness and resiliency across county government.

# SOAP Goals & Actions – Your Input

GOAL AREA	GOAL	ACTIONS
<b>Greenhouse Gas Emissions</b>	By 2050, achieve net carbon neutrality for county government operations.	<b>Provide your input!</b>
<b>Transportation and Mobility</b>	Minimize emissions from county fleet and fuel consuming equipment.	
<b>Energy and Water</b>	Achieve 100% clean electricity by 2030, and 100% clean energy by 2045.	
<b>Consumption and Materials Management</b>	Minimize operational resource use, maximize reuse and recycling, and choose products and services with low environmental and carbon impacts.	
<b>Green Building</b>	Build, maintain, and operate county facilities consistent with best practices for green building and sustainable development standards.	
<b>Ecosystems and Open Space</b>	Manage and restore county owned parks and natural areas to maximize biological carbon storage, promote public health, and protect local species and habitat.	
<b>Adaptation and Resiliency</b>	Integrate climate preparedness and resiliency across county government.	

# SOAP Strategies & Actions - Examples

## **GOAL AREA: Greenhouse Gas Emissions**

**GOAL:** By 2050, achieve net carbon neutrality for county government operations.

**STRATEGY:** Track GHG emissions to determine progress in meeting county's goal.

**ACTION:** Benchmark, report, and monitor county GHG emissions biennially.

## **GOAL AREA: Adaptation and Resiliency**

**GOAL:** Integrate climate preparedness and resiliency across county government.

**STRATEGY:** Prepare for the impacts of climate change in county government operations.

**ACTION:** Develop a suite of tools for county departments and offices to use that will meet their respective needs for policy, design, planning, and continuance of operations.

For more detailed GHG information, please see the [2018 Greenhouse Gas Emissions Inventory for Snohomish County Government Operations](#)

The [2019 SOAP Progress Update](#), available on the [Office of Energy and Sustainability webpage](#), offers more information on SOAP progress.

# Next Steps



- 1. Survey link open March 3-March 31 and be available [here on the OES website](#)**
- 2. Optional:** Schedule a meeting with OES to discuss specific strategies and actions for your department, office, or county government!