Public Workshop

Port Angeles Climate Resiliency Plan

November 17, 2021
6-8PM

Welcome!

Welcome to Zoom

Keep your phone or headset muted unless you are speaking to the group.

Use the **hand raise function** to request to speak to the group **OR** use the chat box to ask a question.

To access the raise hand function:

- Click on ‘Participants’
- The ‘Raise hand’ button is at the bottom of the participants list.

To access the chat box:

- Select the “chat” button at the bottom of the screen

Use your **computer** to connect to Zoom.

You can **rename** yourself, if needed.

- To change your name:
- Click on ‘Participants’
- Hover over your nameClick ‘More’ then ‘Rename’

Agenda

6:00 – 6:05PM	Welcome
6:05 – 6:30PM	Climate Resiliency Plan Introduction
6:30 – 6:55PM	Discussion on Community Vision
6:55 – 7:55PM	Discussion on Climate Resiliency Priority
7:55 – 8:00PM	Adjourn

How to use Poll Everywhere

- Visit **pollev.com/Cascadia** or
- **Text CASCADIA to 22333**

Introduce yourself: Name and any affiliation you'd like to share (neighborhood, organization, etc.)

What groups (community orgs, neighborhoods, constituents, etc.) do you notice are not represented today? Who's not in the room?

Introduction

✓ Overview of the Climate Resiliency Plan

- **Response to** the 2016 Comprehensive Plan update.
- **Based upon** best available science.
- **Utilizes greenhouse gas emissions as metric** to monitor different sectors:
  - Transportation
  - Solid Waste
  - Electrical Consumption
  - Water Consumption
  - Wastewater
  - Fugitive Emissions
- **Identifies** gaps, inefficiencies, strengths and opportunities for development.
- **Provides long range policy and strategy guidance** for greater sustainability, efficiency, and resilience for our community (built environment) and ecology (biological systems).
- **Prioritizes** capital projects.

Introduction

✓ History of climate change planning in Port Angeles

- **Sept 2015:** North Olympic Resource Conservation and Development (NODC) Report, *Climate Change Preparedness Plan for the North Olympic Peninsula*
- **2016**: Climate action goals and policies added in Comprehensive Plan Update
- **2018**: Council adopts 2019-2020 Strategic Plan, identifying climate action as a priority
- **May 2019 to Oct 2019**: Mayor convenes the Climate Action Planning Group (CAPG)
- **Nov 2019**: Council adopts recommendations from draft CAPG Resiliency Plan
- **Nov 2019 to Feb 2020**: Volunteer group established to assist Planning Commission in final public engagement process and Plan development.
- **Feb 2020**: Council approves $50,000 for consultant assistance
- **Nov 2020**: Council approves selection of Cascadia Consulting Group
- **Jan 2021**: Project kick-off meeting
- **June 2021**: Finalized workplan
- **Sept 2021**: Greenhouse gas (GHG) inventory completed
- **Oct 2021**: Community engagement begins
- **Nov 2021**: Climate Resiliency Plan Workshop #1

Introduction

- ✓ Coordination of Plan with Comprehensive Plan Update
  - **2022 Coordination:** Resiliency Plan will be incorporated by reference into the Comprehensive Plan after adoption
  - **2025 Coordination**: Comprehensive Plan update will include direct references to recommendations and guidance from the Plan

Workshop Objectives

1. **Learn** about the Climate Resiliency Planning Process.

2. **Create** a community vision for the Climate Resiliency Plan.

3. **Provide** input to our draft strategies and actions.

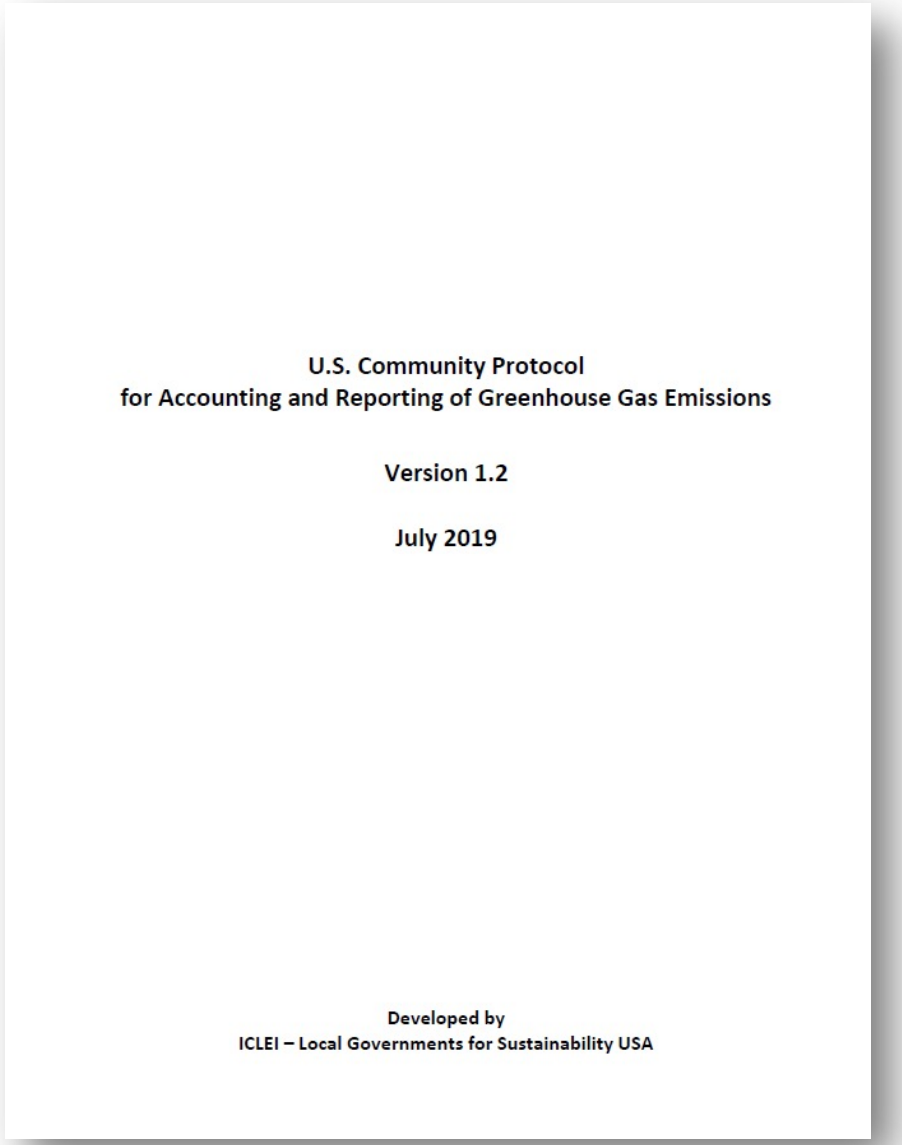
Climate Change and Port Angeles

Port Angeles bears brunt of snowstorm

But impacts spread across entire Peninsula

Progress to Date

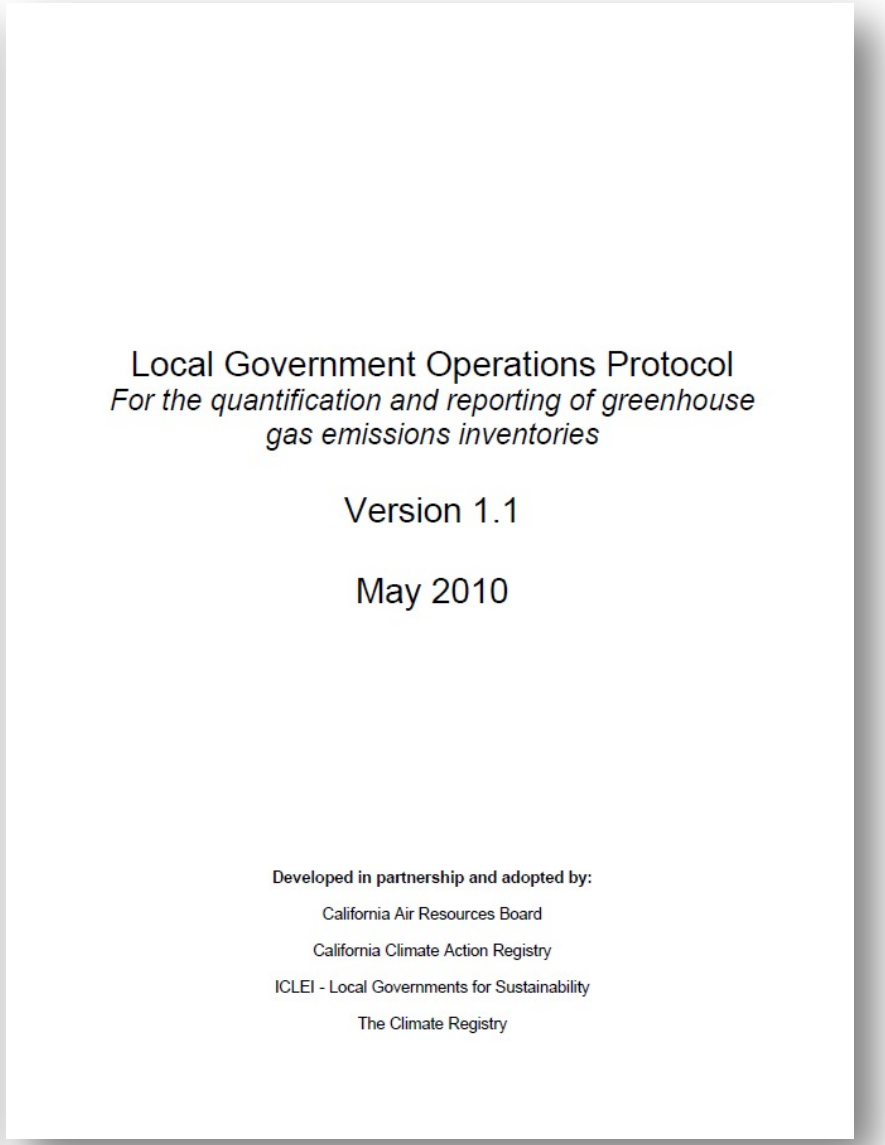
Overview of Inventory Methodology


U.S. Community Protocol
for Accounting and Reporting of Greenhouse Gas Emissions

Version 1.2

July 2019

Developed by
ICLEI – Local Governments for Sustainability USA


Local Government Operations Protocol
For the quantification and reporting of greenhouse gas emissions inventories

Version 1.1

May 2010

Developed in partnership and adopted by:

California Air Resources Board

California Climate Action Registry

ICLEI - Local Governments for Sustainability

The Climate Registry

Key Decisions:

- Baseline year: 2019
- Scopes 1, 2, and 3
- Gathered local data, where available
- Data collected in Excel
- Analysis in ClearPath
- Two Inventories:
  - Community
  - Government Operations

Inventory Results: 2019 Community Snapshot

Main Sources of Emissions (in order):

1. Transportation & mobile sources
2. Solid waste generation & landfill operations
3. Process & fugitive emissions (e.g., refrigerants)

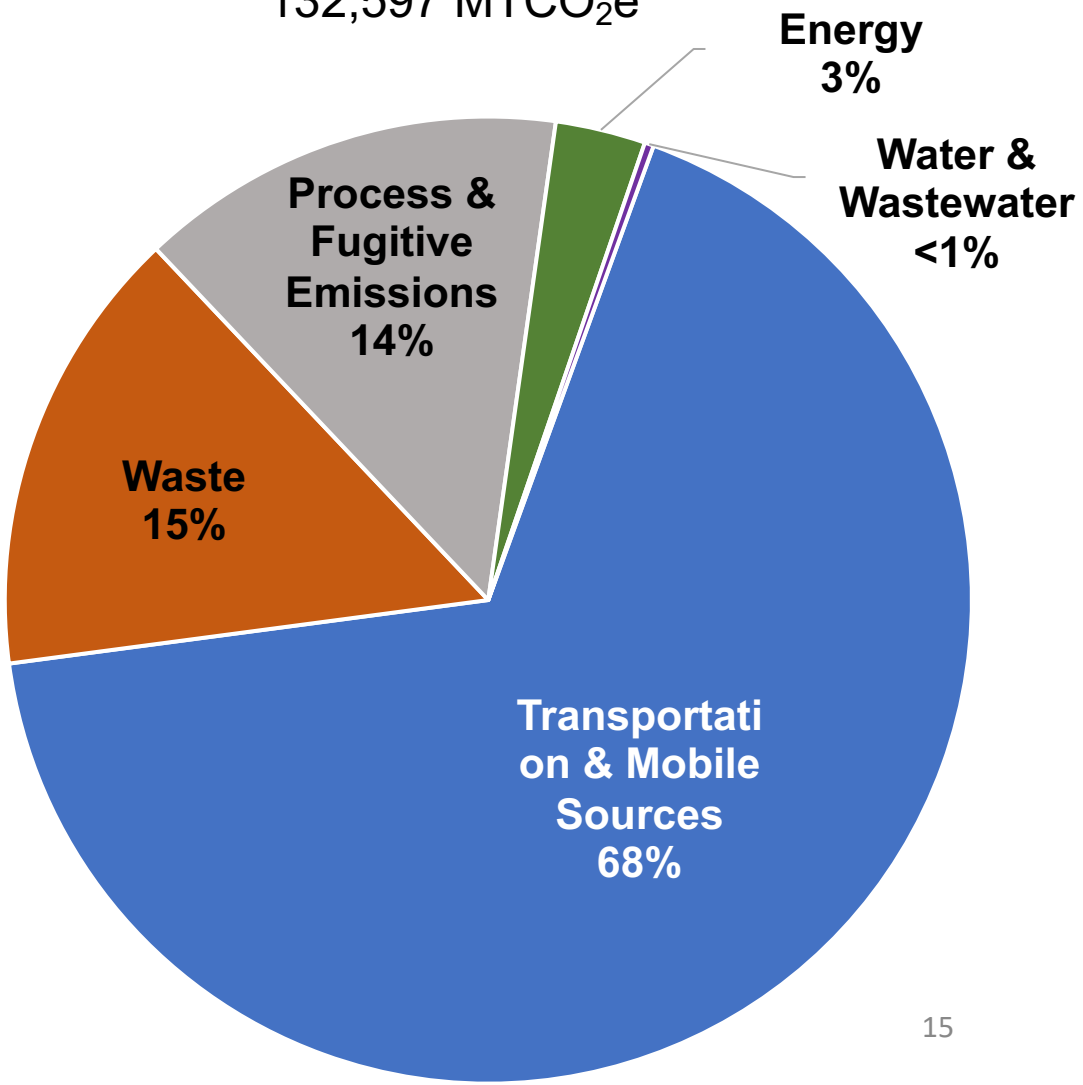
Major Data Sources

- City of Port Angeles Public Works & Utilities (Energy, Solid Waste, Water & Wastewater)
- Port of Port Angeles & Black Ball Ferry
- Washington State Department of Transportation (WSDOT)
- U.S. Energy Information Administration

Key Considerations

- Propane data downscaled from state-level usage data; scaled based on households
- No commercial/industrial propane estimates available -
- Vehicle mileage data was downscaled from annual county-level data from WSDOT

Total 2019 Community Emissions:
132,597 $MTCO_2e$

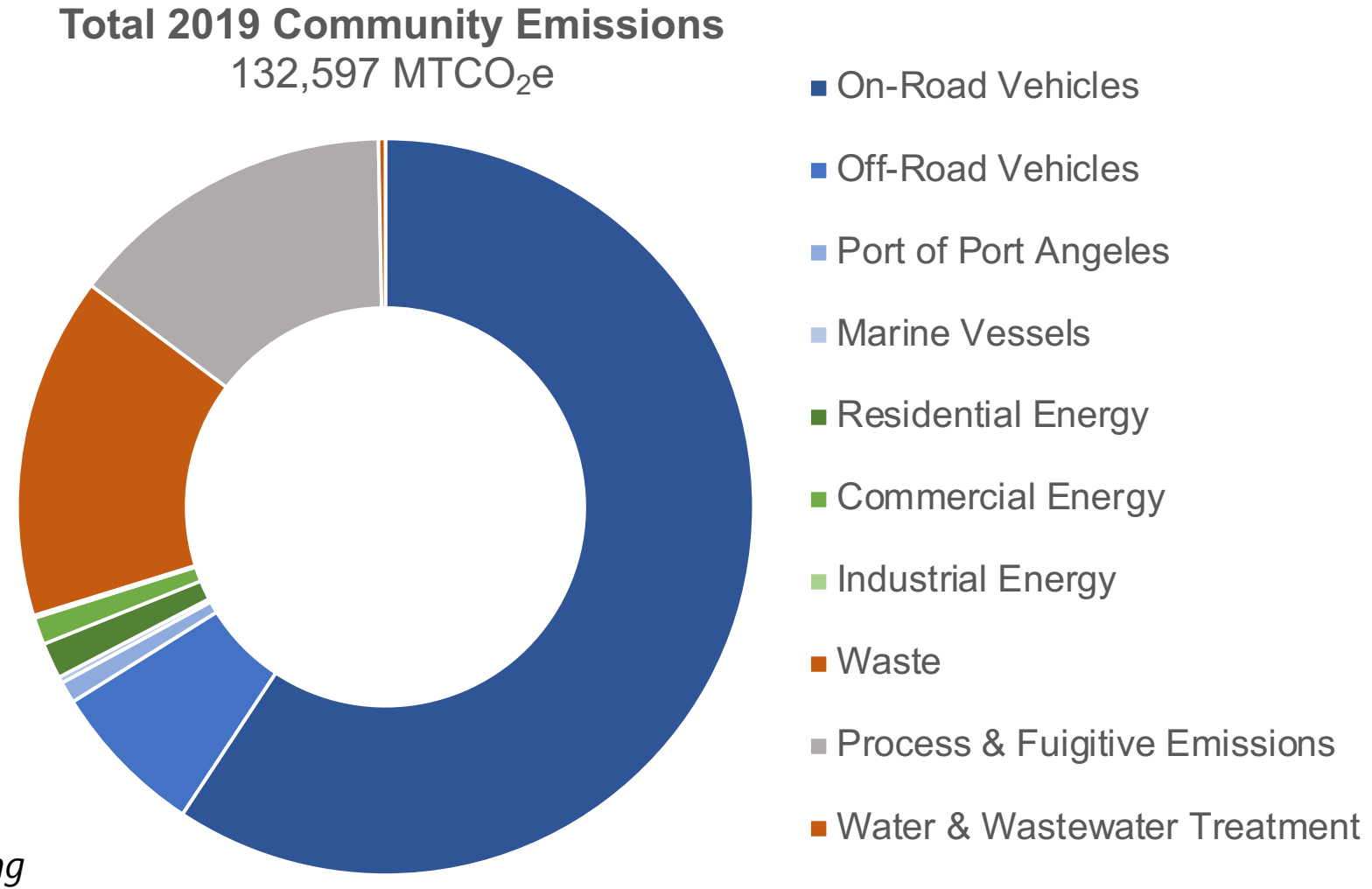


Inventory Results: Detailed Community Findings

Major Drivers of Emissions:

- On-road cars, motorcycles, SUVs, and trucks (59%)
- Solid waste generation & landfill operations (15%)
- Refrigerant leakage & electricity losses (14%)

Government operations make up **~1% of total emissions***



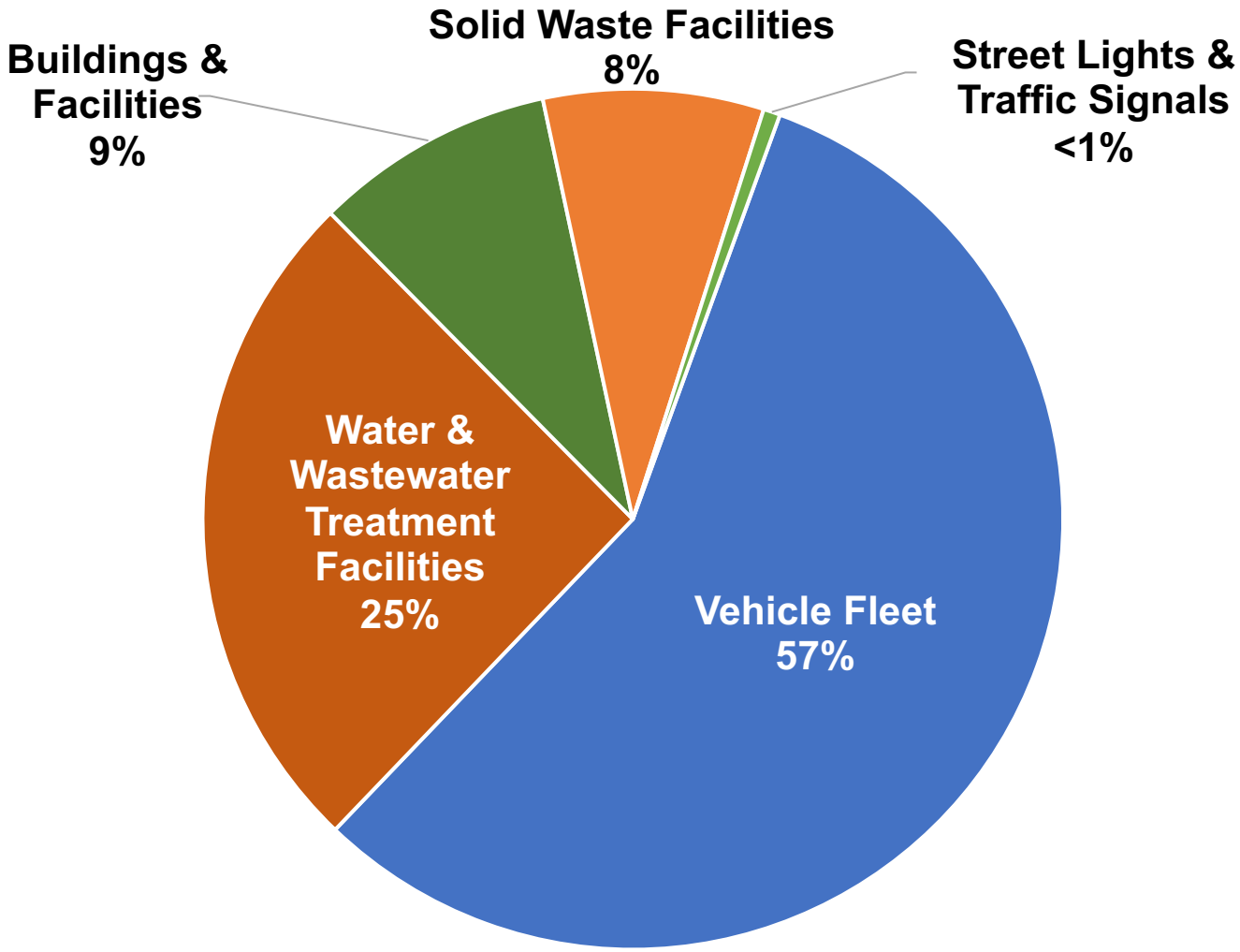
**The government operations inventory is still being finalized to include results from an upcoming employee commute survey*

Inventory Results: Government Operations

Total 2019 Community Emissions:
- 1,581 $MTCO_2e$

Major Drivers of Emissions:
- Gasoline vehicles (28%)
- Diesel vehicles (27%)
- Process emissions from wastewater treatment (13%)
- Waste generated from government operations (8%)

Key Considerations:
- Employee commute data still in progress
- Derived solid waste tonnages from bin sizes & pickup frequency



Preliminary Focus Areas

Transportation

Buildings & Energy

Ecosystem Health

Community Resilience & Wellbeing

Consumption & Waste

Questions?

How to use Poll Everywhere

- Visit **pollev.com/Cascadia** or
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How has climate change affected you personally or people in your community?

Think about what you love about Port Angeles and what you would like to see changed. (30 seconds).

Now, complete this thought/sentence: In 2030, I want Port Angeles to be _____.

Community Resilience & Wellbeing

Strategy 1

Prepare Port Angeles for future extreme events.

Strategy 2

Increase community capacity to respond to future climate change.

Community Resilience & Wellbeing: Do these strategies align with your vision? What might be missing or how would you change it?

Potential Actions

Strategy 1: Prepare Port Angeles for future extreme events.

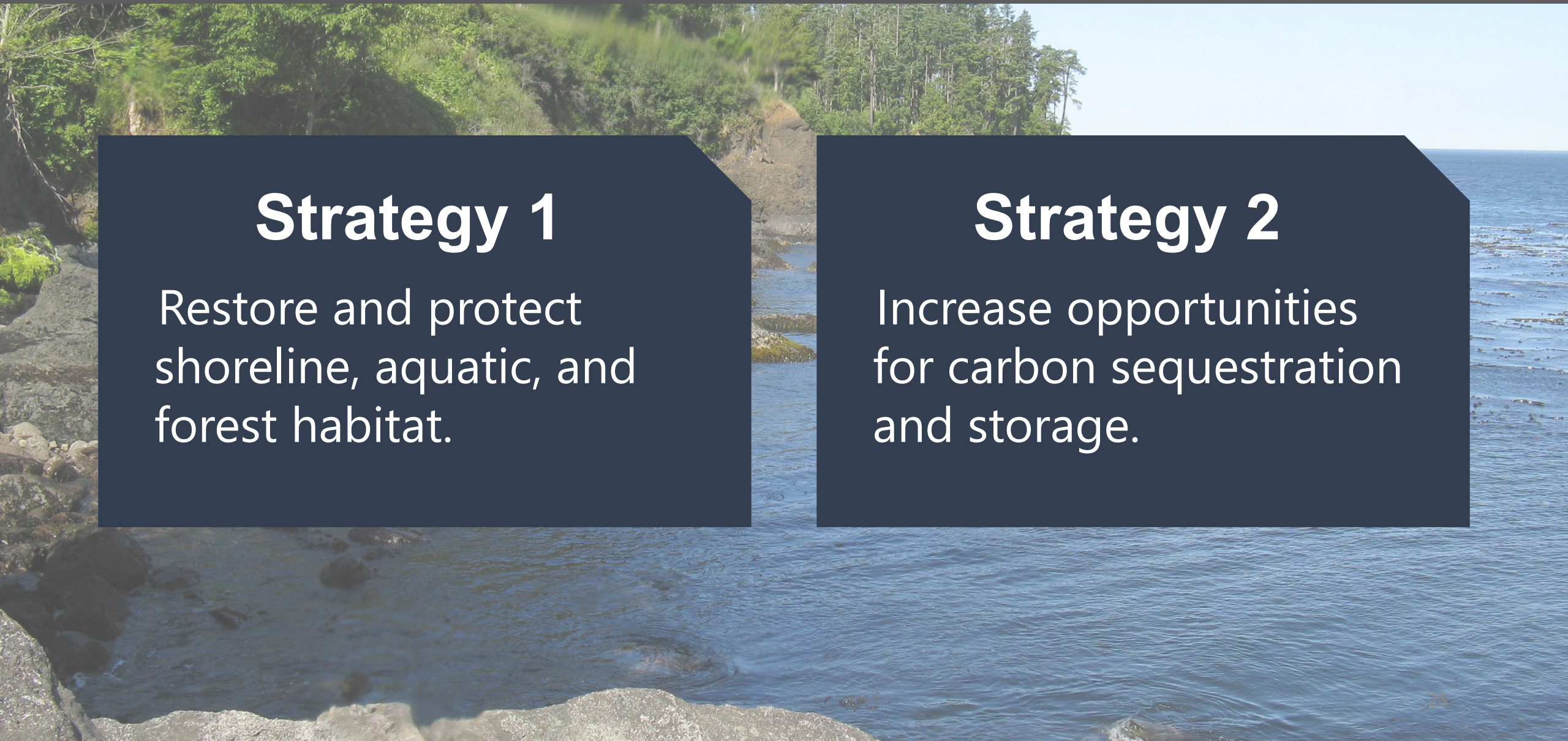
- Update municipal codes to account for **enhanced fire risk in the wildland-urban interface**.
- Create **community resiliency hubs to** support residents during extreme events, such as wildfire smoke days or heat waves, by providing shelter, air conditioning, clean indoor air, and other supplies.

Strategy 2: Increase community capacity to respond to future climate change.

- Conduct a **sea level rise vulnerability assessment** to evaluate vulnerability of City assets, including roads, sewage treatment, buildings, water infrastructure, and ports.
- Develop a **city-wide carbon pricing program** and invest revenue into energy efficiency and clean energy projects.

Community Resilience & Wellbeing: What are your initial reactions to these actions? What would you add or change? What do you support?

Ecosystem Health



Strategy 1

Restore and protect shoreline, aquatic, and forest habitat.

Strategy 2

Increase opportunities for carbon sequestration and storage.

Ecosystem Health: Do these strategies align with your vision? What might be missing or how would you change it?

Potential Actions

Strategy 1: Restore and protect shoreline, aquatic, and tree canopy habitat.

- Protect **urban tree canopy**.
- Incorporate climate change and sea level rise explicitly into the **Shoreline Master Program**.

Strategy 2: Increase opportunities for carbon sequestration and storage.

- Encourage timber companies to **extend timber harvest rotation times**, as longer aged trees can sequester more carbon.
- Partner with organizations (e.g., National Park Services, National Marine Sanctuary) to **preserve forest and marine habitats**.

Ecosystem Health: What are your initial reactions to these actions? What would you add or change? What do you support?

Transportation

Strategy 1

Enhance transportation resilience by promoting public transit and active transportation.

Strategy 2

Reduce transportation-related GHG emissions.

Transportation: Do these strategies align with your vision? What might be missing or how would you change it?

Potential Actions

Strategy 1: Enhance transportation resilience.

- Ensure that all residents have **access to multiple transportation options**, especially walking, biking, and public transit.
- Ensure that the City's **transportation systems and investments can withstand future climate impacts**.

Strategy 2: Reduce transportation-related GHG emissions.

- **Expand public transit infrastructure and services** to decrease need for single-occupancy cars.
- **Expand electric vehicle (EV) infrastructure** and incentivize people to purchase EVs.

Transportation: What are your initial reactions to these actions? What would you add or change? What do you support?

Buildings & Energy

Strategy 1

Support energy resilience by investing in renewable energy and community-scale energy projects.

Strategy 2

Reduce building-related GHG emissions.

Buildings & Energy: Do these strategies align with your vision? What might be missing or how would you change it?

Potential Actions

Strategy 1: Support energy resiliency.

- Invest in projects that **develop community energy projects** to ensure there is energy supply redundancy, especially when the City (or various neighborhoods) lose power.
- **Realign and protect infrastructure** along bluff crests against sea level rise.

Strategy 2: Reduce building-related GHG emissions.

- Incentivize **propane use reduction**.
- Support or mandate **energy efficient retrofits**, such as building weatherization and energy efficient appliances.

Buildings & Energy: What are your initial reactions to these actions? What would you add or change? What do you support?

Consumption & Waste

Strategy 1

Promote sustainable consumption.

Strategy 2

Reduce waste-related GHG emissions from landfills.

Consumption & Waste: Do these strategies align with your vision? What might be missing or how would you change it?

Potential Actions

Strategy 1: Promote sustainable consumption.

- Work towards **banning or limiting single-use plastics**.
- Implement a **sustainable purchasing policy** for City departments and encourage other businesses to do so.

Strategy 2: Reduce waste-related GHG emissions from landfills.

- **Reduce organic food waste** through food donation programs, greenwaste bins, and composting programs.
- Evaluate and reduce facility-related emissions with Port Angeles' **wastewater treatment facility.**

Consumption & Waste: What are your initial reactions to these actions? What would you add or change? What do you support?

Next Steps

Visit our Website!
- Access recording and workshop materials
- https://www.cityofpa.us/1010/Climate-Resiliency-Plan

Take our Survey!
- Visit the website to take the survey!

Visit the Farmers Market!
- Every Sunday 10am – 2pm

Follow our Calendar
- Stay up to date with events

Demographics Polls

Thank You