

# Big Tent Committee: Sustainability Plan Overview

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# Agenda

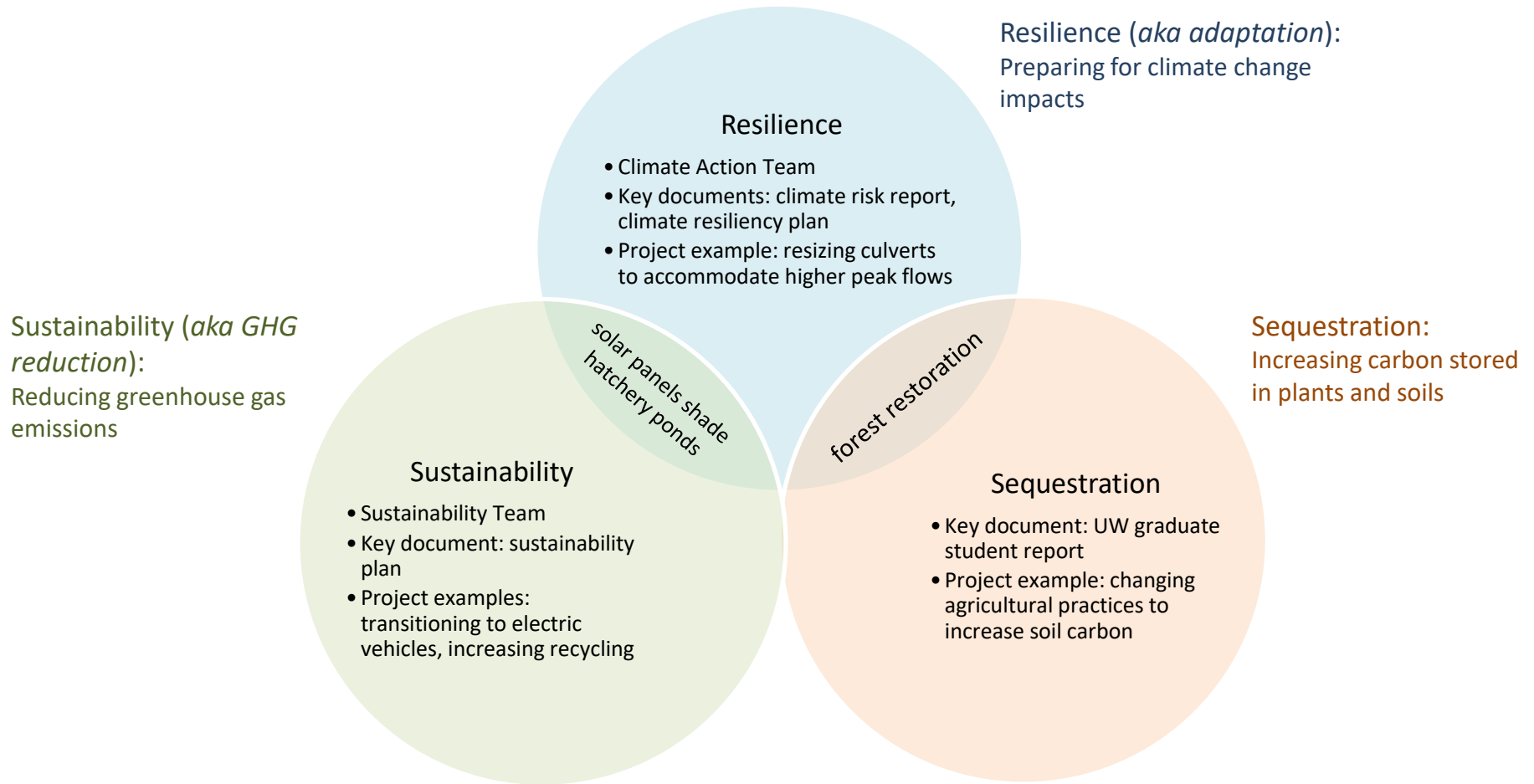
## Presentation (20 minutes)

- Sustainability Plan overview: vision, timeline, drivers, scope
- Greenhouse gas emissions & sustainability baselines
- Greenhouse gas emissions & sustainability goals
- Next steps

## Questions & Comments (10 minutes)



# Climate Change at WDFW





# Sustainability Plan Overview

# Sustainability Plan Vision & Objective

Vision: WDFW is a leader that sets the example for environmental sustainability among state agencies.

Objective: The Sustainability Plan will lay out strategies and actions WDFW can implement to reduce the agency's environmental impact by reducing greenhouse gas (GHG) emissions and increasing sustainability.



# Sustainability Plan Timeline

2021			2022				
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May

Scoping: cross-program team and consultants

Baseline: measure and forecast GHG emissions and sustainability impacts



Strategy development: brainstorming and prioritization



Staff engagement: program presentations, all-staff survey

Plan development: effectiveness and cost modeling, writing



EMT & Commission engagement



# Project Driver – WDFW Strategic Plan

WDFW | 25-Year Strategic Plan Draft

Model  
operational and  
environmental  
excellence

## Near-term Actions

WDFW will seek policy and funding necessary to prioritize these actions over the next four years.

1. Adapt decision making based on publicly shared performance goals and indicators.
2. Increase decision transparency to both internal and external audiences.
3. Expand ways for the Fish and Wildlife Commission to connect with residents.
4. Support the recommendations of employee resource groups and the Department's internal Diversity Advisory Committee.
5. Track workforce diversity, equity, and inclusion measures.
6. Assess the need and identify actions to improve cross-program/region collaboration.
7. Develop measures for strengthening employee satisfaction and adopting best practices for staff retention and advancement.
8. Develop and implement a WDFW sustainability plan that includes actions to minimize our carbon footprint, maximize carbon sequestration, and achieve more net ecological gain.
9. Develop a culture that supports physical and emotional safety.



# Project Driver – Statutory Requirements

House Bill 2311 (2020) requires us to:

- Report and reduce GHG emissions from facilities electricity, facilities natural gas, and fleet below 2005 levels 15% by 2020, 45% by 2030, 70% by 2040, 95% by 2050
- Submit a report every two years starting June 1, 2022 describing our short- and long-term strategy to achieve the above





# Scope: Going Above and Beyond

We are required to reduce GHG emissions from:

- Facilities electricity and natural gas
- Fleet

We also want to voluntarily reduce GHG emissions from:

- Employee commuting
- Business travel
- Hatchery fish digestion

And voluntarily increase sustainability by:

- Reducing solid waste
- Conserving water
- Reducing our use of toxic chemicals
- Reducing the impact of the products we buy





# Sustainability Plan Overview – Questions?



# **Greenhouse Gas Emissions & Sustainability Baselines**

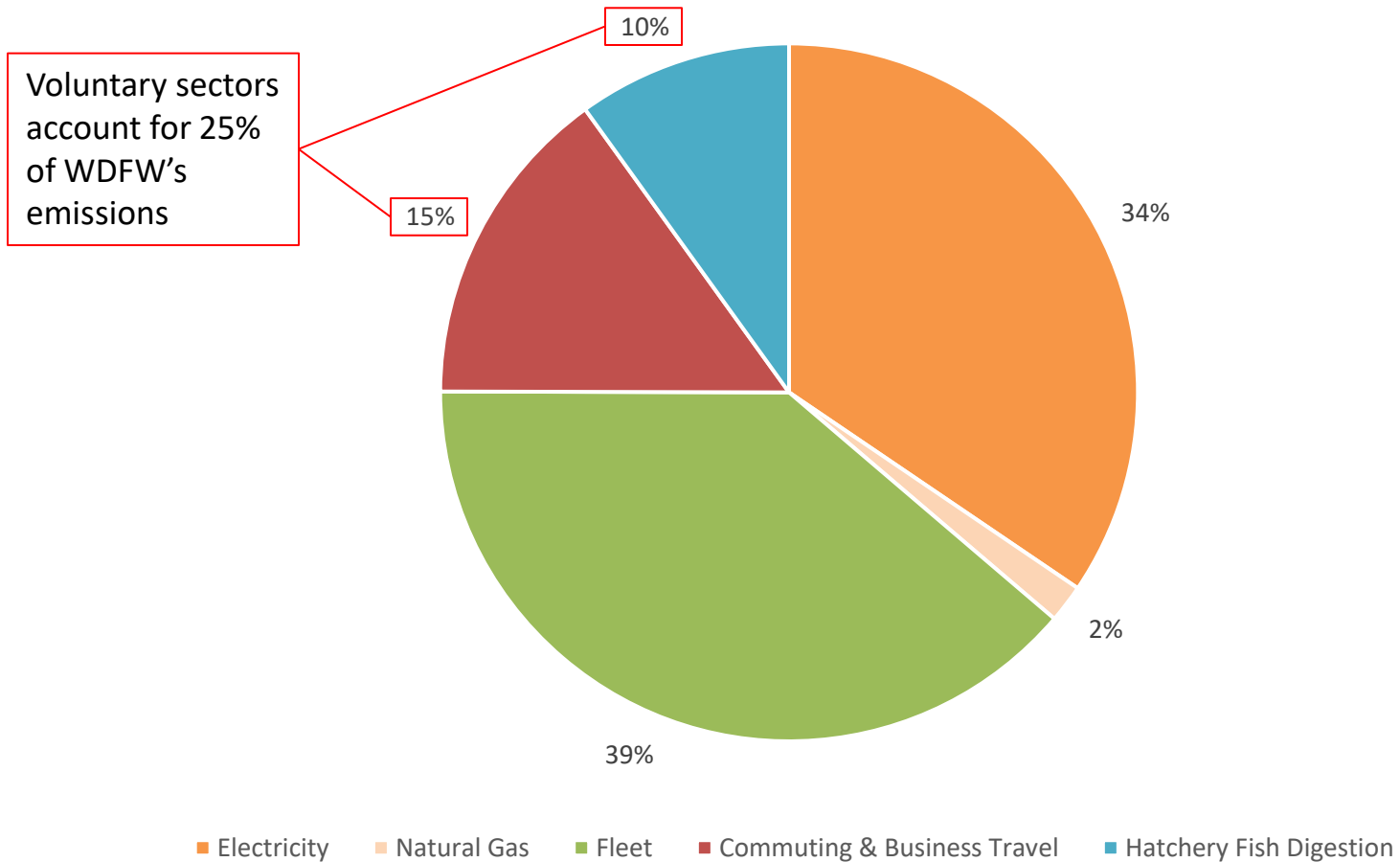
# Greenhouse Gas Emissions Baseline

- “Baseline” refers to our emissions in a certain year that goals are set against, e.g. statutory goal to reduce emissions below 2005 baseline 45% by 2030, etc.
- Annual reporting allows us to track progress towards goals
- Two information sources on our greenhouse gas emissions:
  1. Mandatory reporting to Department of Ecology
    - 2005 baseline; annual reports 2010-2020
    - Only covers mandatory sectors (electricity, natural gas, fleet)
    - Data quality is unreliable
  2. Updated baseline recently completed with consultants
    - 2019 baseline; no annual reports yet
    - Covers mandatory and voluntary sectors (commuting, business travel, hatchery fish digestion)
    - Data quality is high

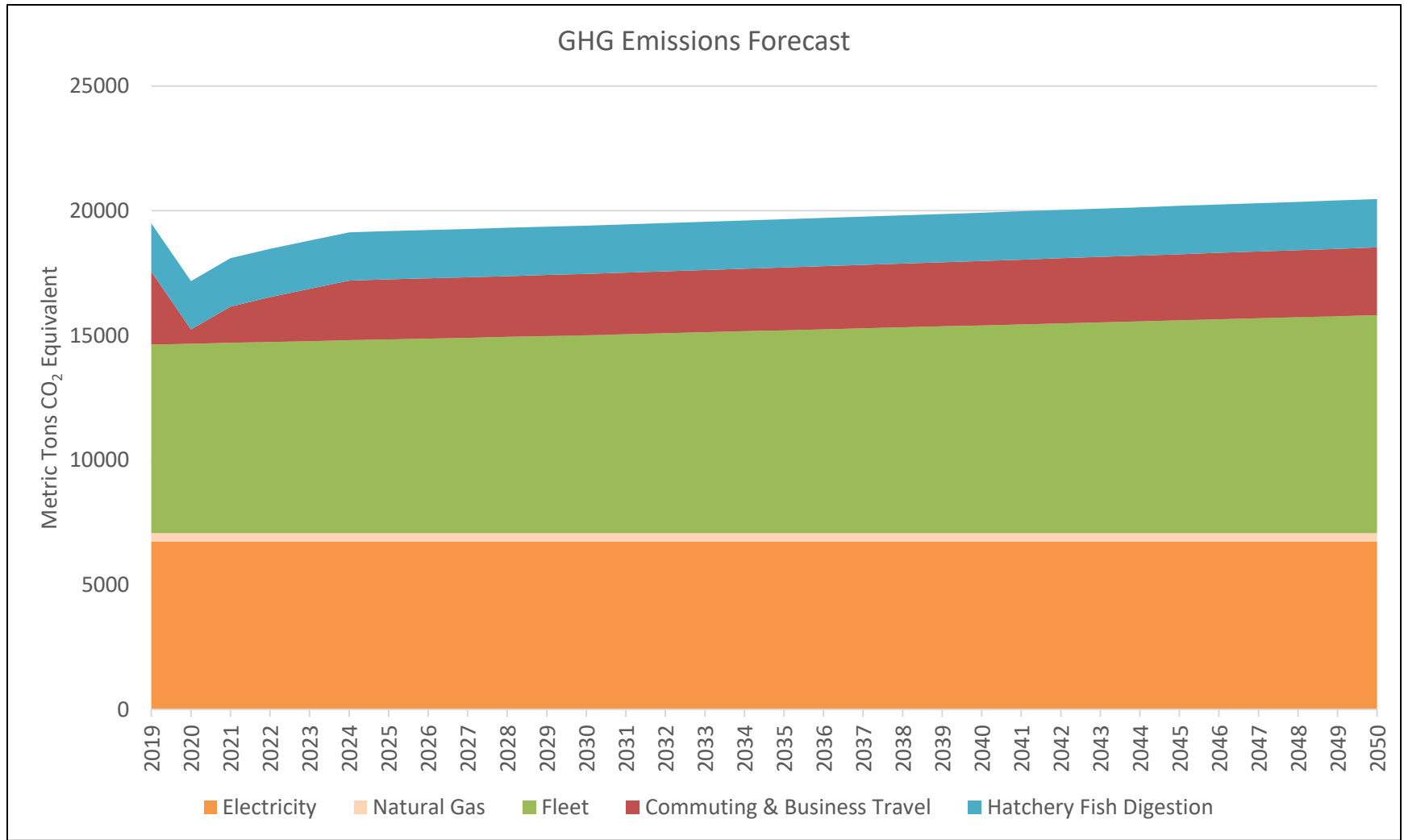


# Greenhouse Gas Emissions Baseline

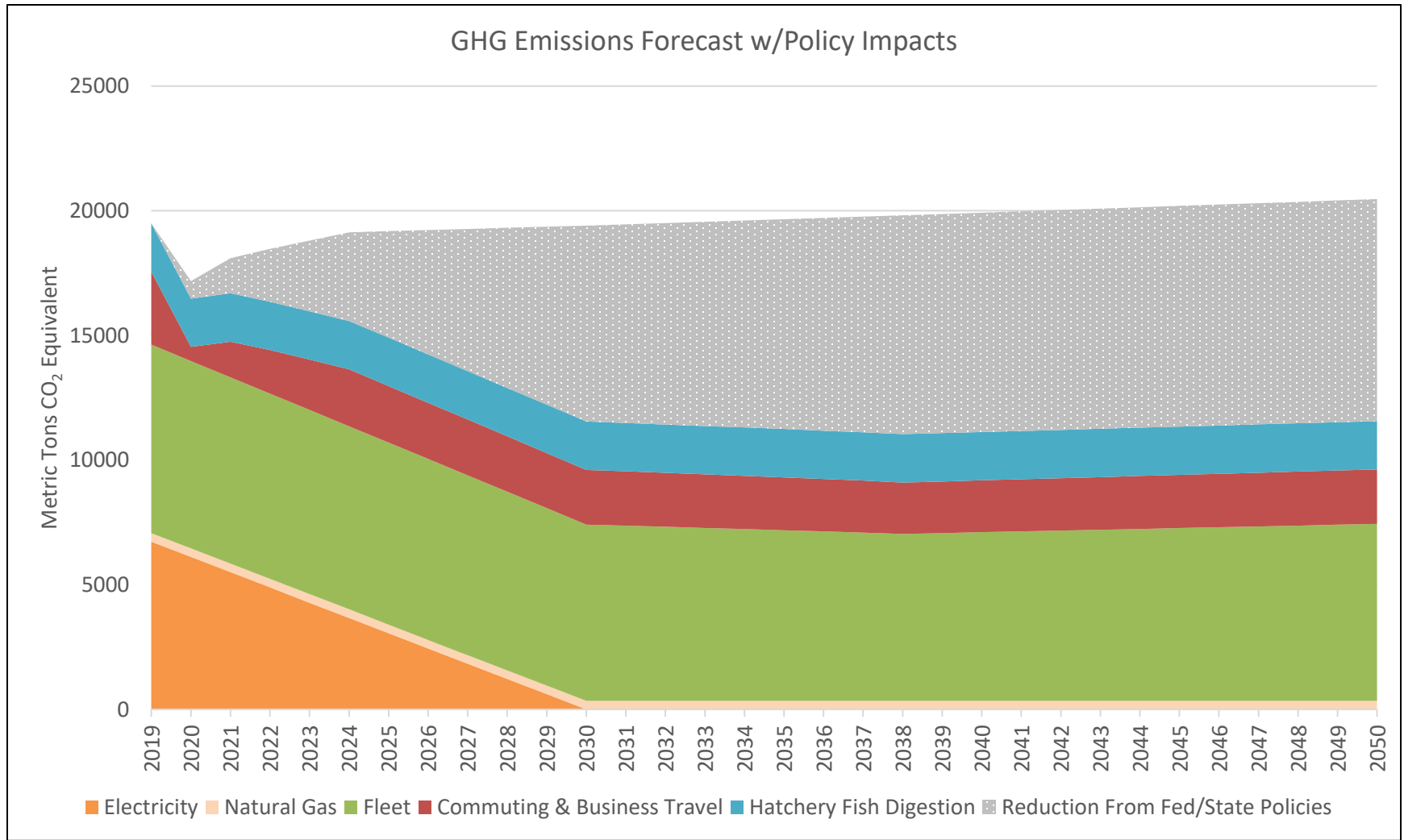
GHG Emissions 2019: 19,499 Metric Tons CO<sub>2</sub> Equivalent



# Emissions Forecast If No Action Is Taken



# Emissions Forecast With Policy Impacts



# Sustainability Baselines & Data Gaps

Also set 2019 baselines for:

- Facilities water use
- Solid waste (trash & recycling)
- Lifecycle carbon footprint of purchased materials – case study approach with 6 materials (concrete, paper, computers, etc.)

Data gaps – collecting data to set baselines for these activities proved difficult, but the Sustainability Plan will still include strategies to address these activities:

- Toxic chemicals
- Refrigerant gases in HVAC systems, refrigerators, freezers
- Contractors' fuel and material use
- Volunteers' fuel use
- Public's fuel use fishing/hunting/recreating at WDFW sites







# **Greenhouse Gas Emissions & Sustainability Baselines – Questions?**



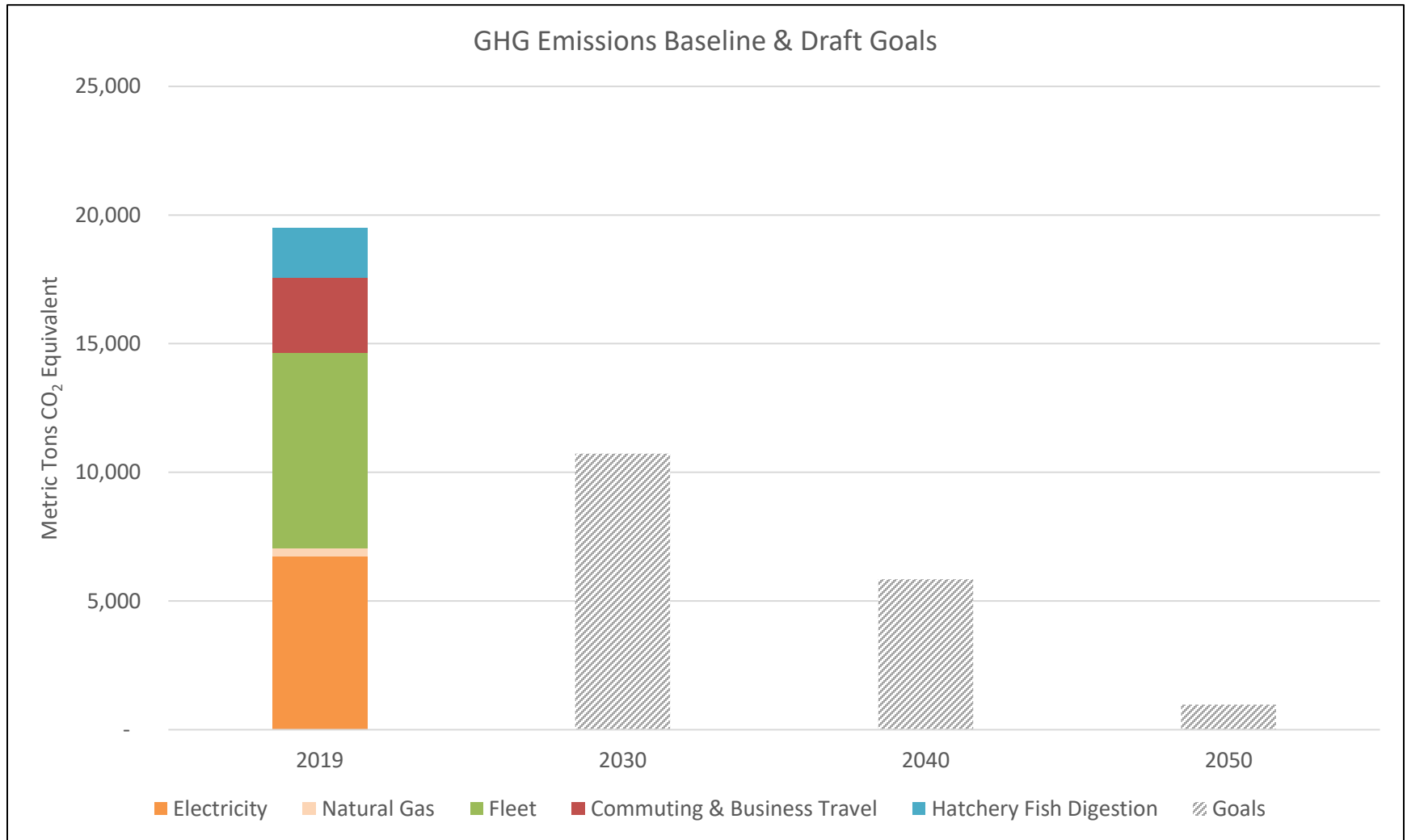
# **Greenhouse Gas Emissions & Sustainability Goals**

# Approach to Goals

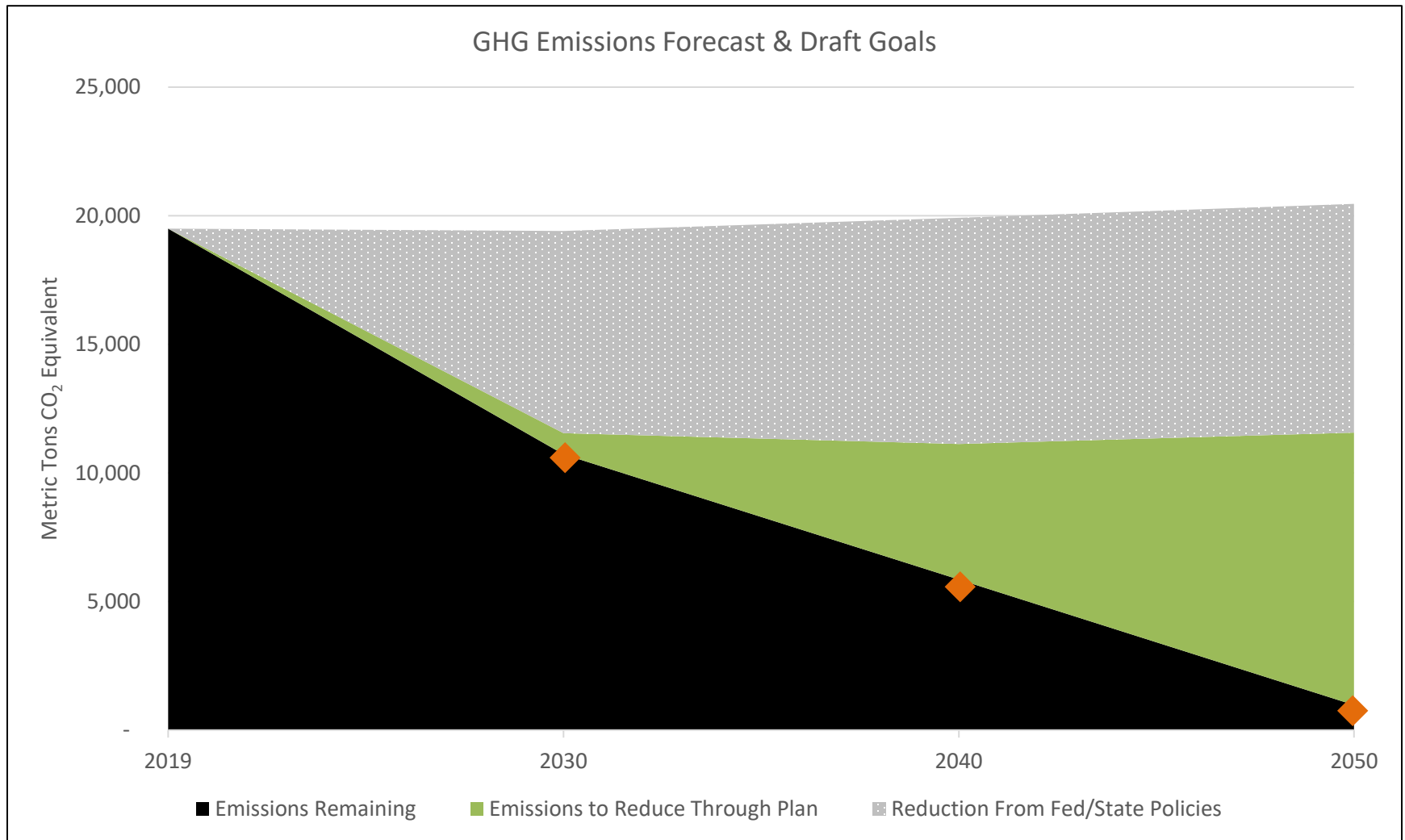
- Reporting to Ecology will continue to use statutory goals for mandatory GHG sectors (electricity, natural gas, fleet):
  - Reduce below 2005 baseline 45% by 2030, 70% by 2040, 95% by 2050
- Set Sustainability Plan goals for both mandatory GHG sectors and voluntary GHG sectors (commuting, business travel, hatchery fish digestion):
  - Reduce below 2019 baseline 45% by 2030, 70% by 2040, 95% by 2050
  - Rationale: 2005 baseline data is unreliable; it makes sense to use the same baseline for all Sustainability Plan goals
- Set Sustainability Plan goals for sustainability sectors (water, solid waste, materials)



# Emissions Baseline & Draft Goals

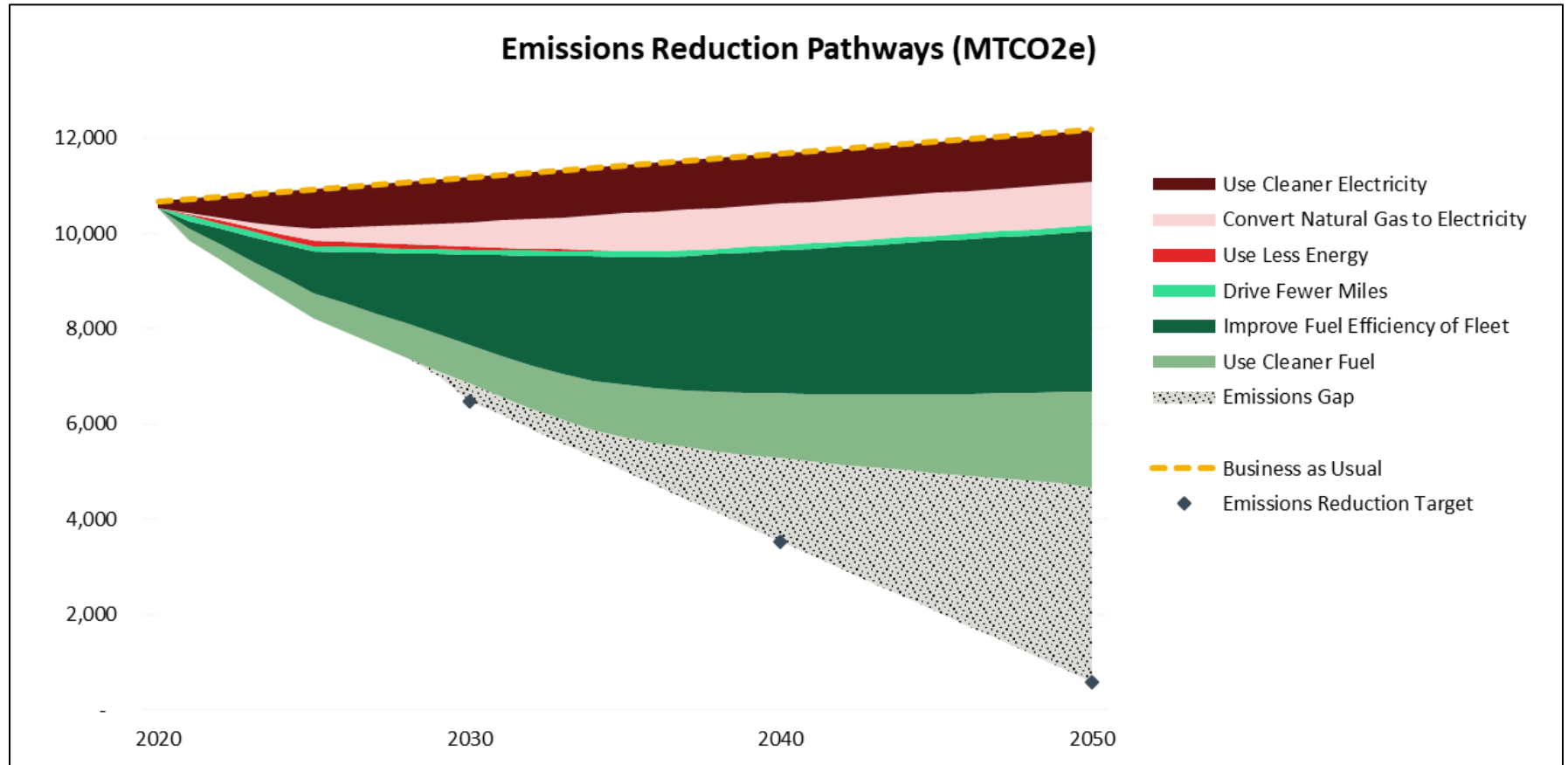


# Emissions Forecast & Draft Goals



# Example of Sustainability Plan Modeling

## WA DNR GHG Reduction Strategy



# Top Priority Actions for Modeling

- Facilities: reduce energy use, transition to renewable energy
- Fleet: transition to electric where possible, transition to alternative fuels where electric is not possible, increase fuel efficiency, reduce miles traveled
- Commuting & business travel: reduce commute days, encourage sustainable commute modes, reduce business flights
- Hatchery fish digestion: research and implement approaches to reduce nitrous oxide emissions



# Sustainability Baselines & Draft Goals

Sector	2019 Baseline	2030 Goal	2040 Goal	2050 Goal
Facilities water use - <i>Reduce by:</i>	42.1 million gallons	-10%	-20%	-30%
Solid waste - <i>Increase waste diversion (recycling) rate to:</i>	18%	40%	60%	80%
Purchased materials - <i>Reduce by:</i>	1,279 metric tons CO <sub>2</sub>	-10%	-20%	-30%







# **Greenhouse Gas Emissions & Sustainability Goals – Questions?**



# Next Steps

# Next Steps

Spring: Executive Management Team

- Review draft plan

Summer: Big Tent Committee and Commission

- Review draft plan

Throughout 2022:

- Build top priority implementation actions into 23-25 biennial budget



# Questions or Comments?

