



Briefing: Climate Change Plans

Planning and Sustainability Commission



Multnomah
County



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Agenda

- Climate Change Preparation Strategy
 - Public comment
 - Key recommendations
 - Next steps
- Climate Action Plan Update
 - 2013 Carbon numbers
 - New content: consumption, climate change preparation, equity
 - Timeline and next steps



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2009 Climate Action Plan

1 BUILDINGS AND ENERGY

5 FOOD AND AGRICULTURE

2 URBAN FORM AND MOBILITY

6 COMMUNITY ENGAGEMENT

3 CONSUMPTION AND SOLID WASTE

4 URBAN FORESTRY AND NATURAL SYSTEMS

7 CLIMATE CHANGE PREPARATION

8 LOCAL GOVERNMENT OPERATIONS



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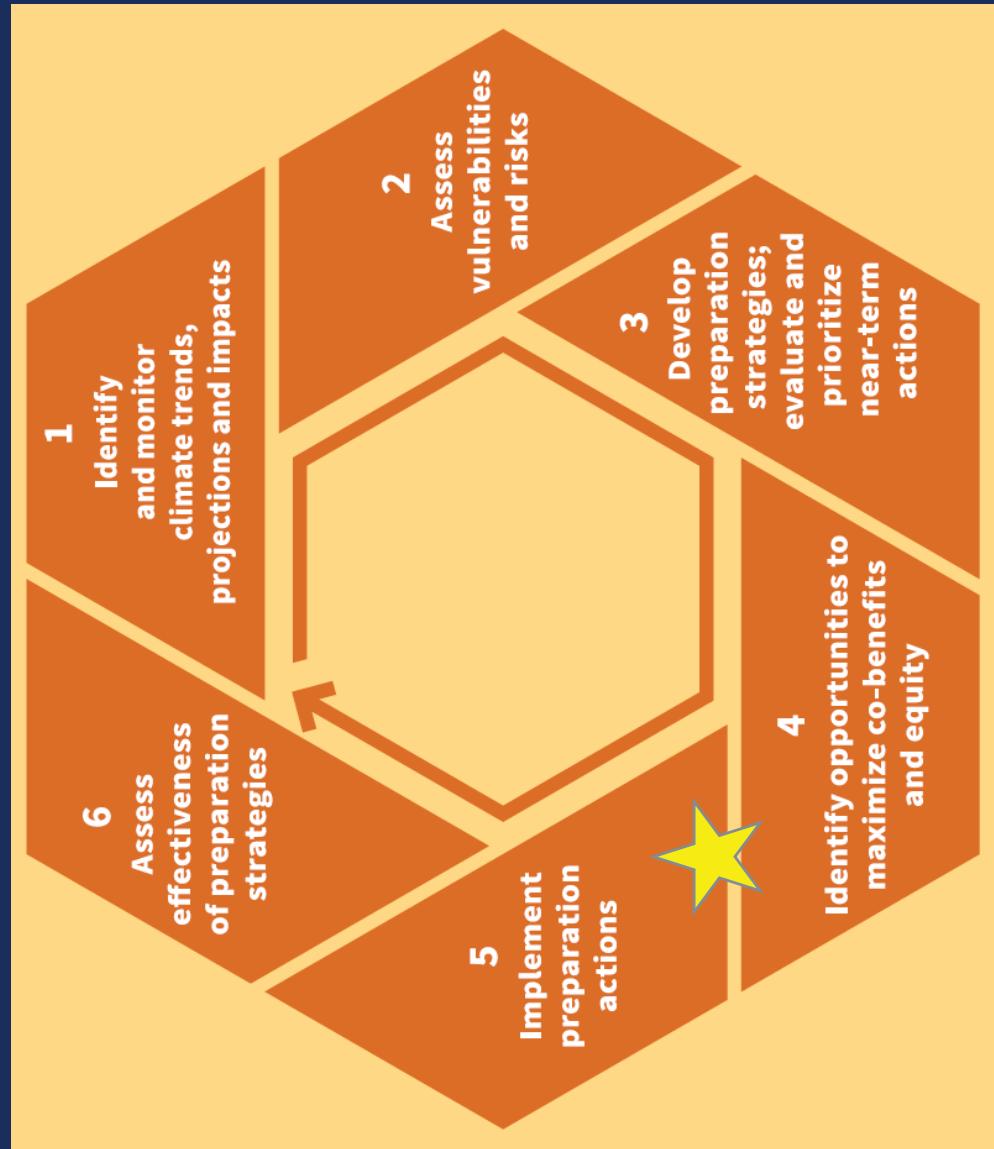
Climate Change Preparation Planning

- Infrastructure and the Built Environment
- Natural Systems
- Health and Human Services



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Preparation Planning Process



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Portland's Primary Climate Risks

Hotter, drier summers with more high-heat days



Risk 1: Increased temperatures (both day and night) and frequency of high-heat days



Risk 2: Increased incidence of drought



Risk 3: Increased wildfire frequency and intensity

Warmer winters with the potential for more intense rain events



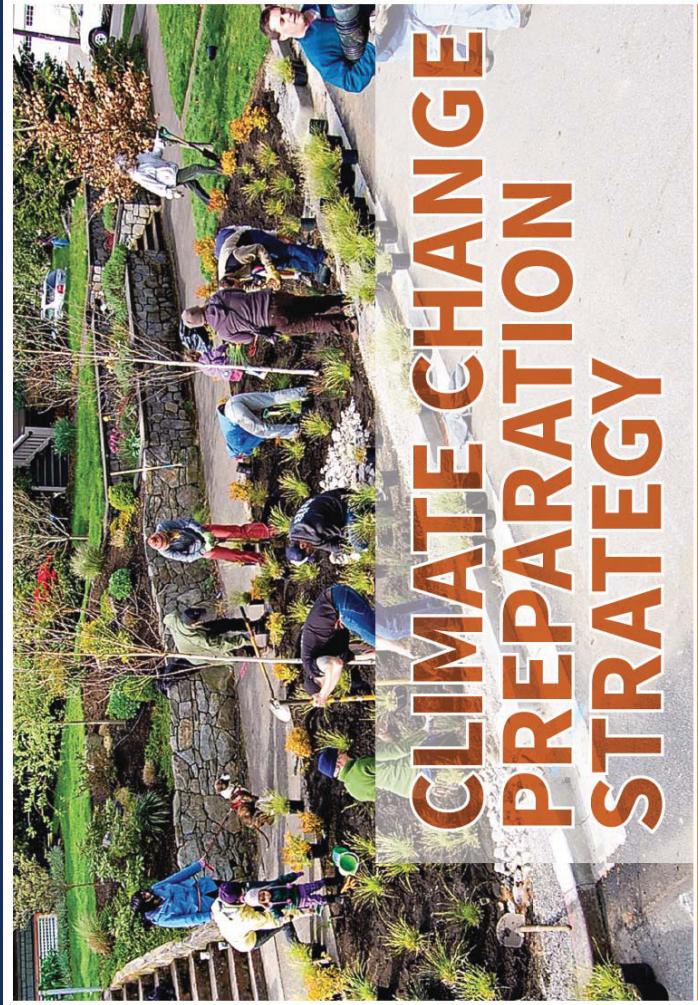
Risk 4: Increased incidence and magnitude of damaging floods



Risk 5: Increased incidence of landslides



Climate Change Preparation



CLIMATE CHANGE PREPARATION STRATEGY

PREPARING FOR LOCAL IMPACTS
IN PORTLAND AND MULTNOMAH COUNTY | 2014



CLIMATE CHANGE PREPARATION STRATEGY

RISK AND VULNERABILITIES ASSESSMENT

PREPARING FOR LOCAL IMPACTS
IN PORTLAND AND MULTNOMAH COUNTY | 2014



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Key Recommendations

- Keep doing what we're doing in key areas
 - green infrastructure
 - natural area protection
- Get ahead of some coming impacts
 - update emergency plans
 - drought tolerant plant palettes



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Key Recommendations

- Monitor and research key unknowns
 - heat, air pollution and health
 - river levels, bridge lifts and maintenance
 - recreation trends in park facilities
 - climate migrants
- Apply climate preparedness to new arenas
 - Comprehensive Plan
 - asset management
 - floodplain mapping



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Changes from Public Comment

- Winter precipitation
- Populations vulnerable to climate change impacts
- Updated data
- Expanded public health links
- Edits to refine language, clarify some actions and improve understanding



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Next Steps

- City Council and County Board consideration
 - Early October
- Integration into updated Climate Action Plan
- Implementation, capacity building, research, monitoring and evaluation.

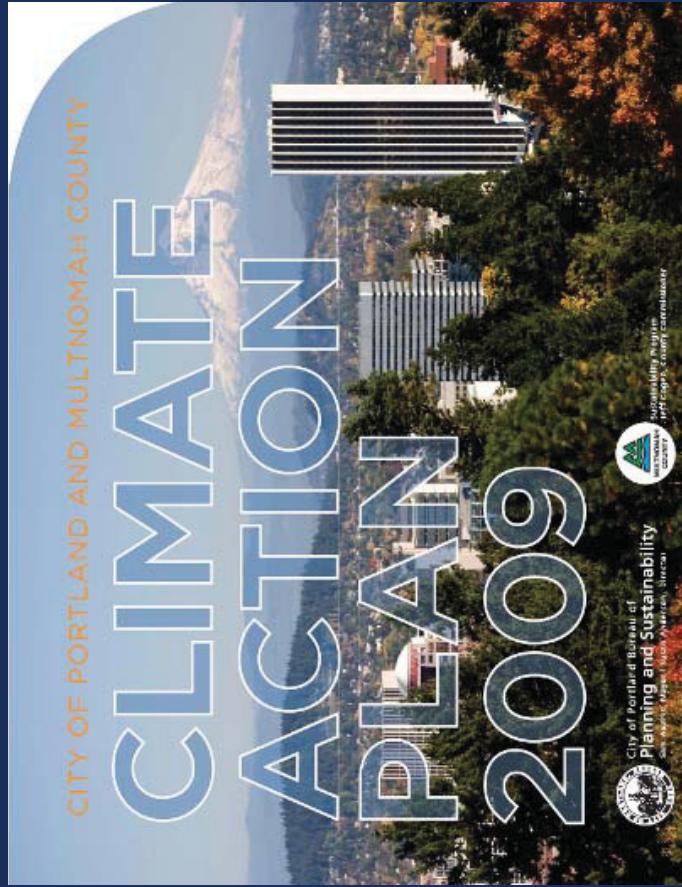
Questions, comments and discussion



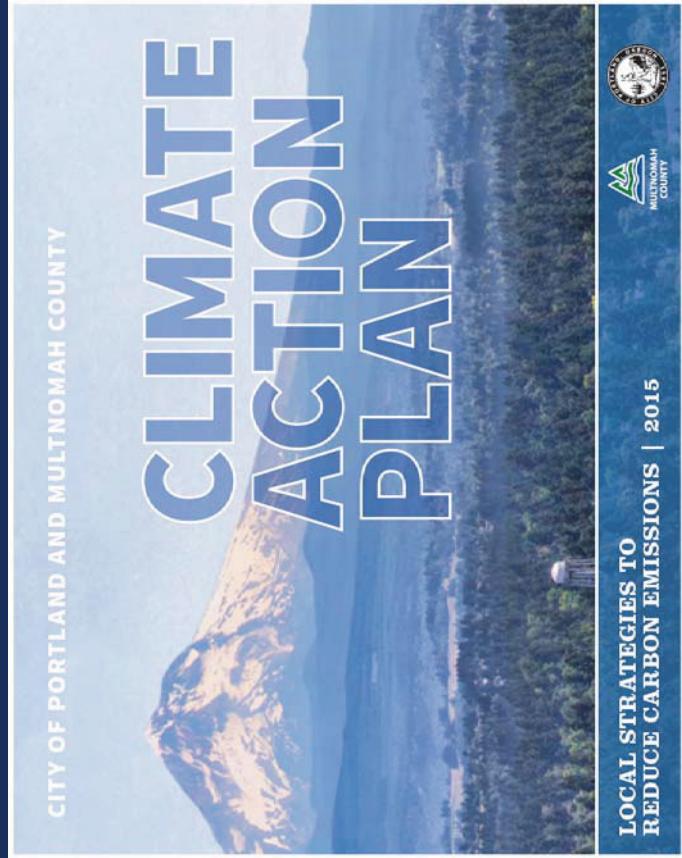
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Climate Action Plan Update



2009



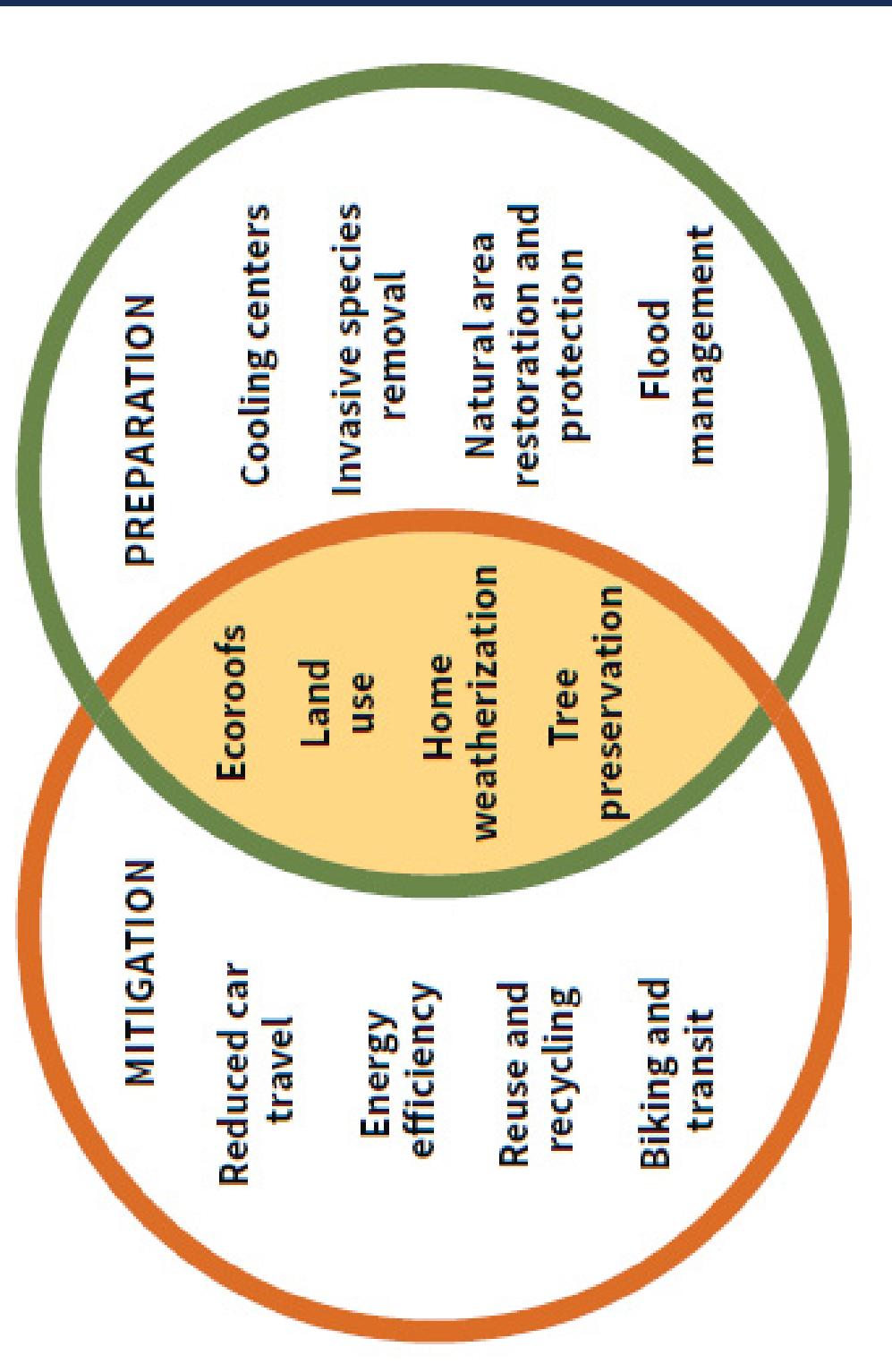
2015



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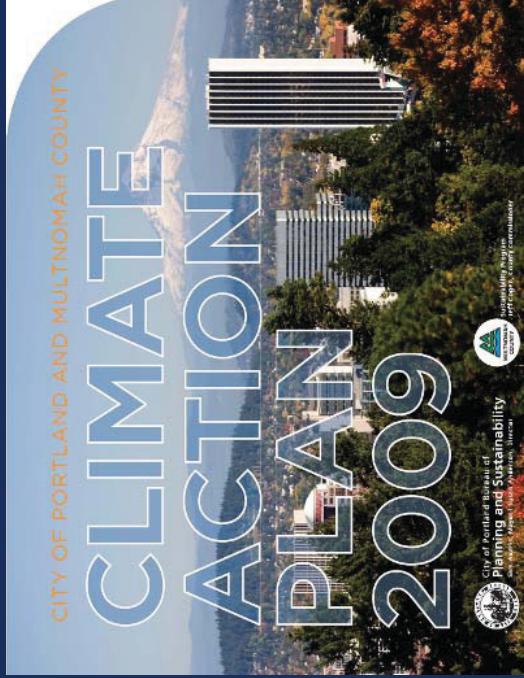
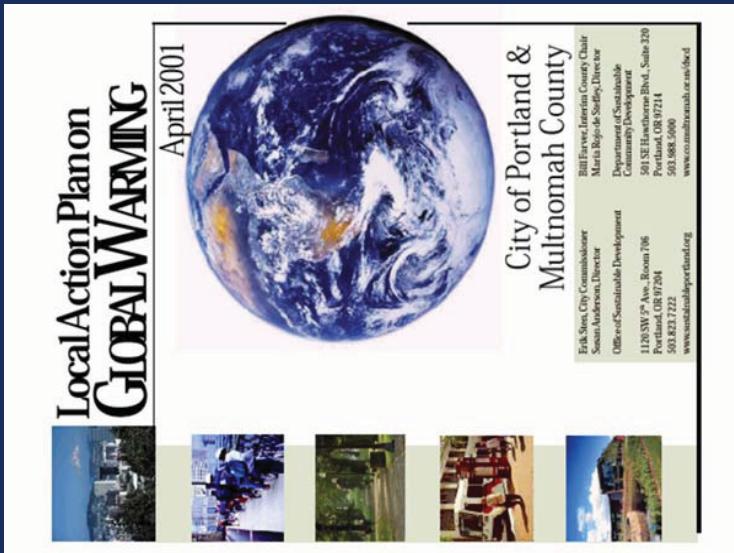
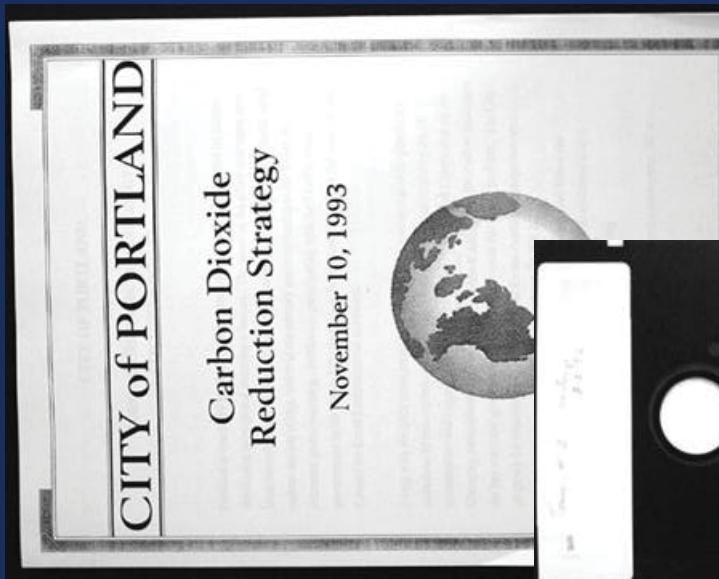
Climate Change Preparation



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20 Years of Climate Action Planning

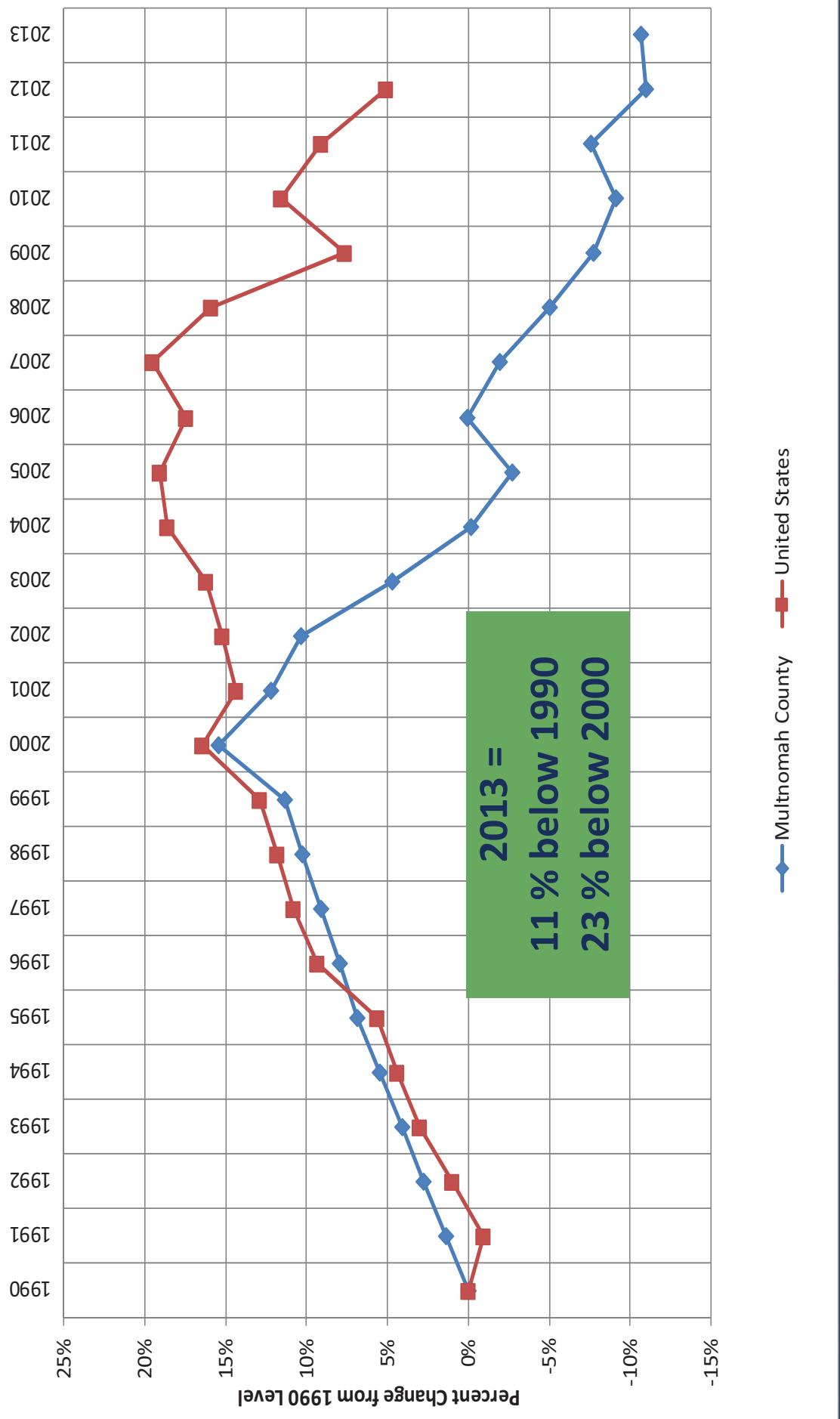
1993 2001 2009



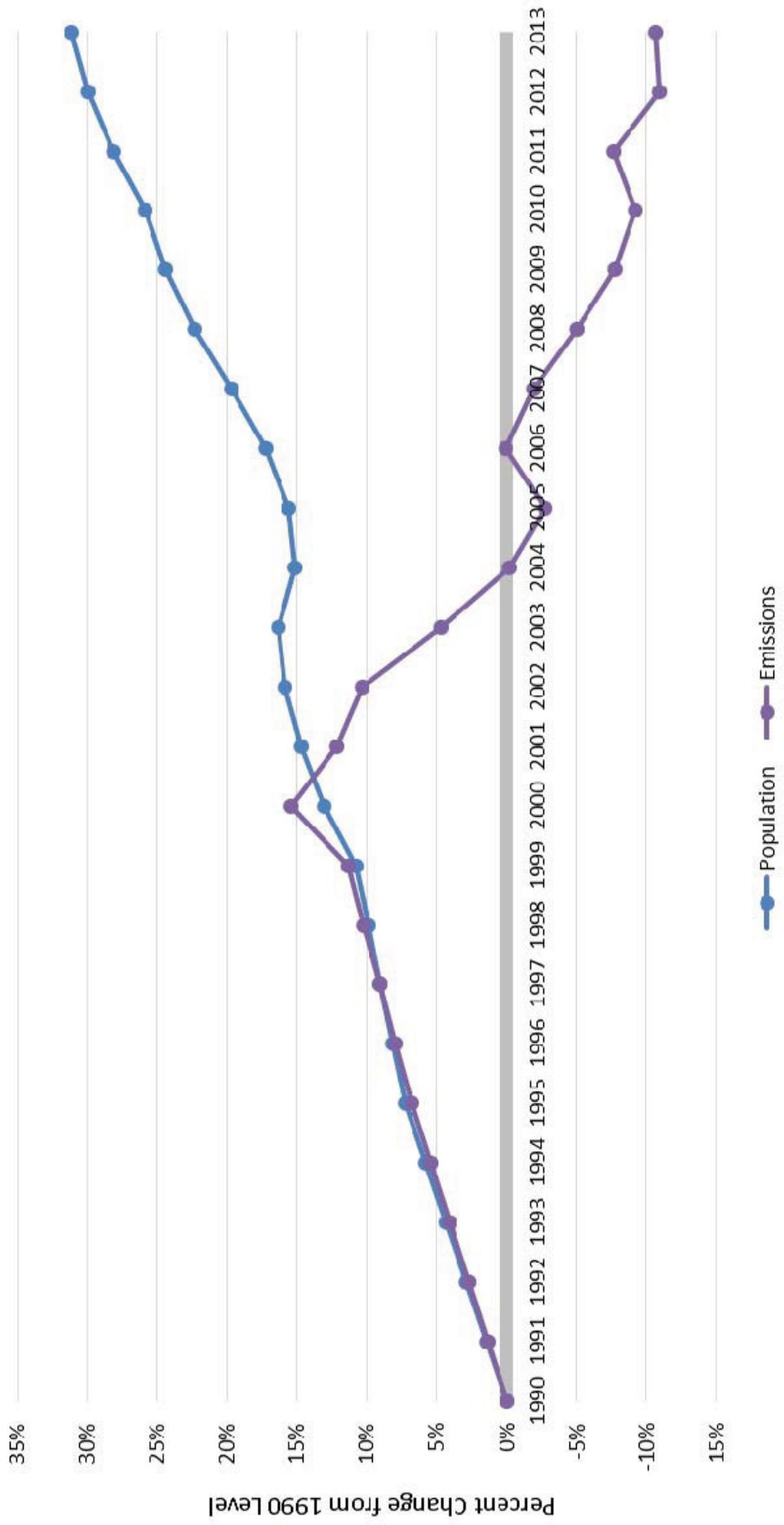
Carbon Reduction Goal

80% below 1990 by 2050
(40% by 2030)

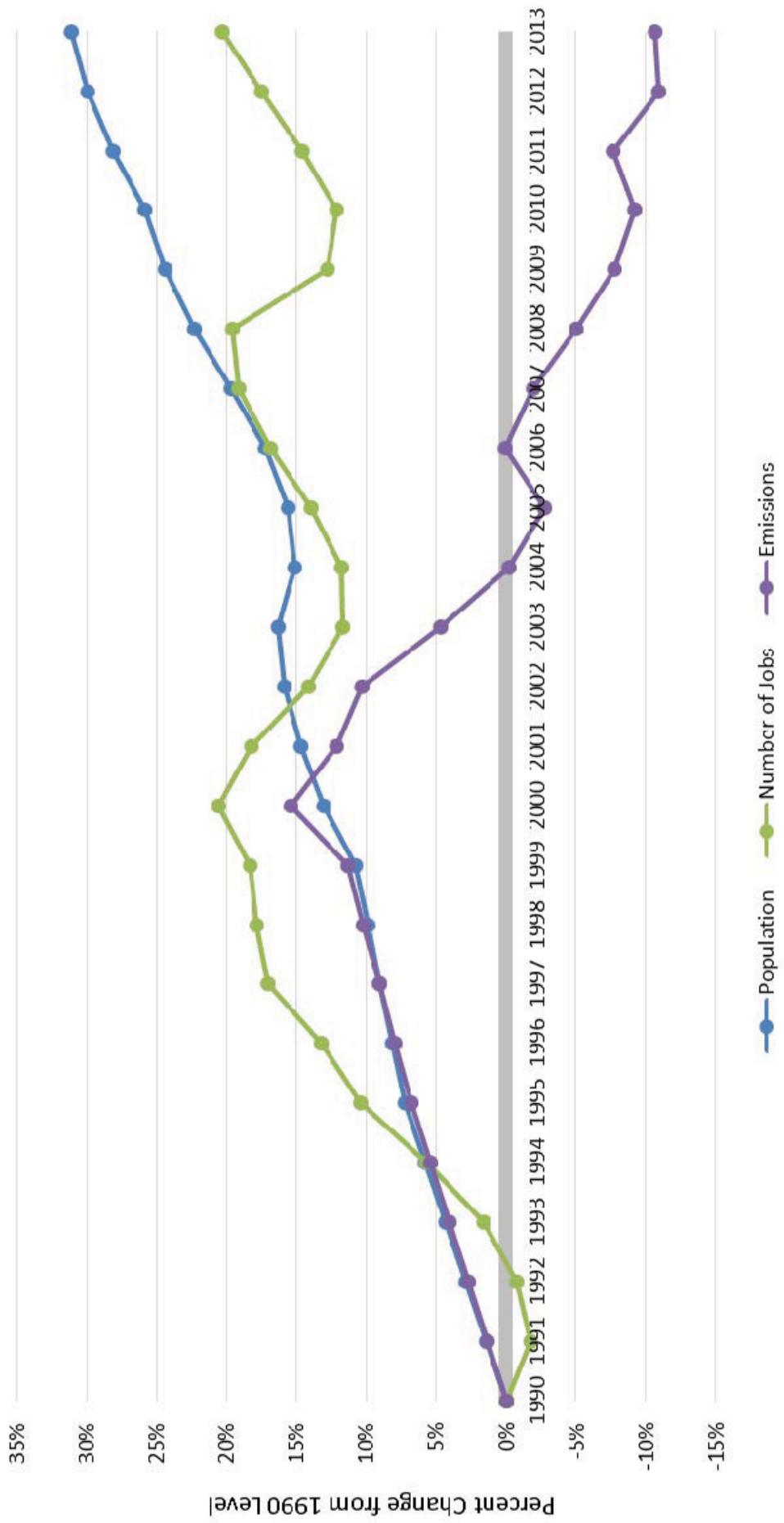
Community Wide Carbon Emissions Trend (1990-2013)



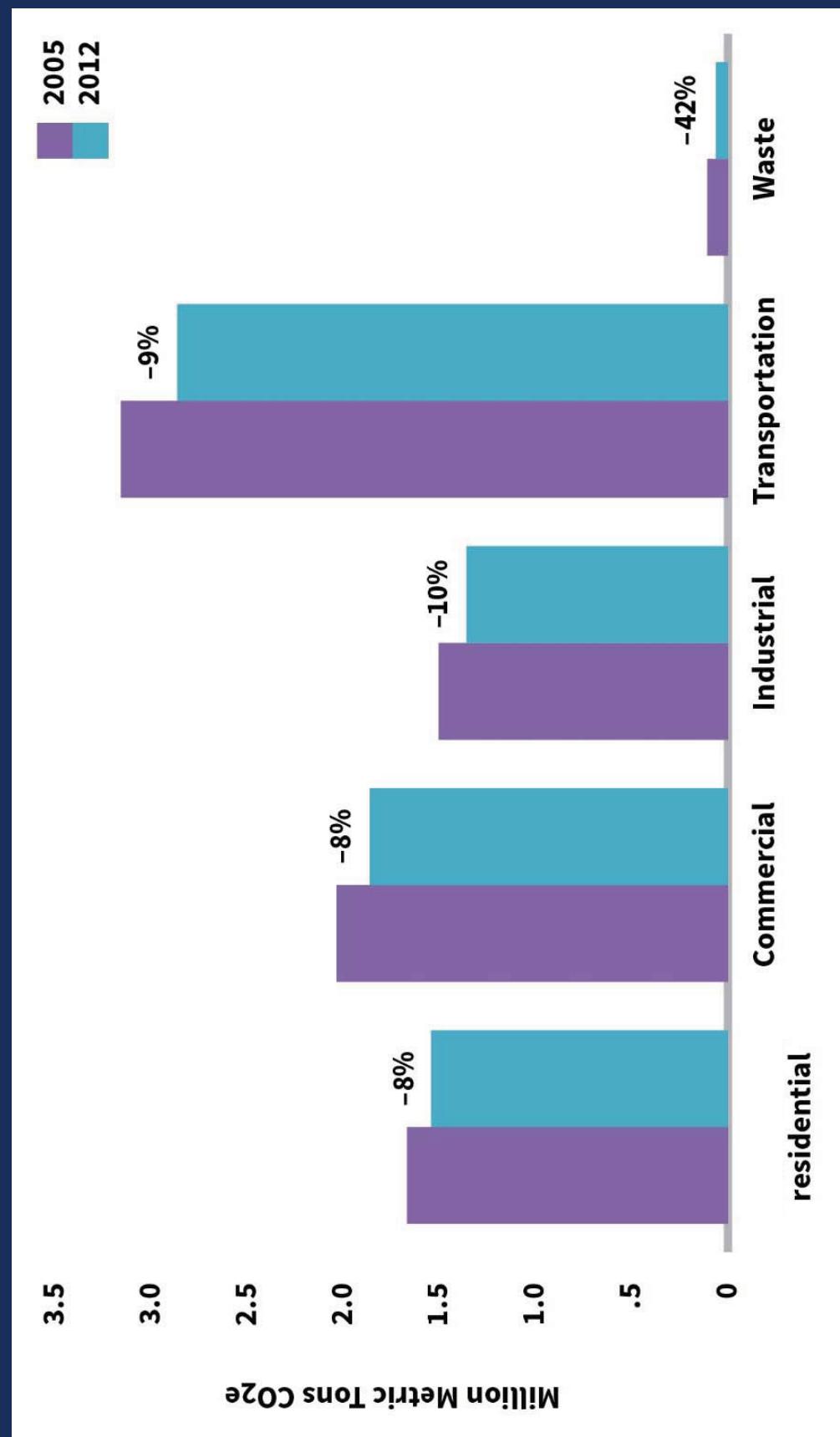
Change in Multnomah County Carbon Emissions Compared to Population (1990-2013)



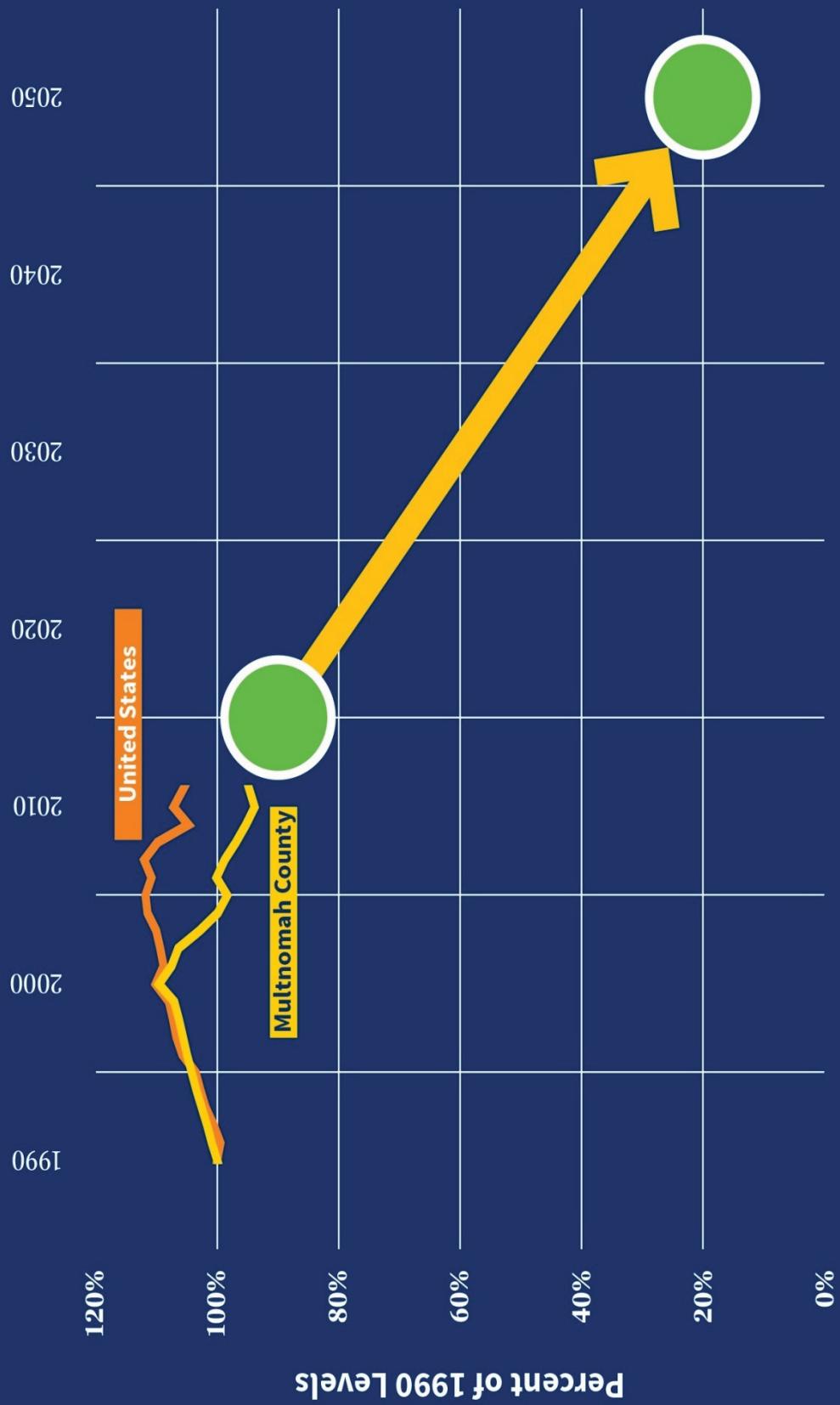
Change in Multnomah County Carbon Emissions Compared to Population and Jobs (1990-2013)



Total Carbon Emissions and Percent Change (2005-2012)



Greenhouse Gas Emissions Trend



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CAP Action Areas

- 1** BUILDINGS AND ENERGY
- 2** URBAN FORM AND MOBILITY
- 3** CONSUMPTION AND SOLID WASTE
- 4** URBAN FORESTRY AND NATURAL SYSTEMS
- 5** FOOD AND AGRICULTURE
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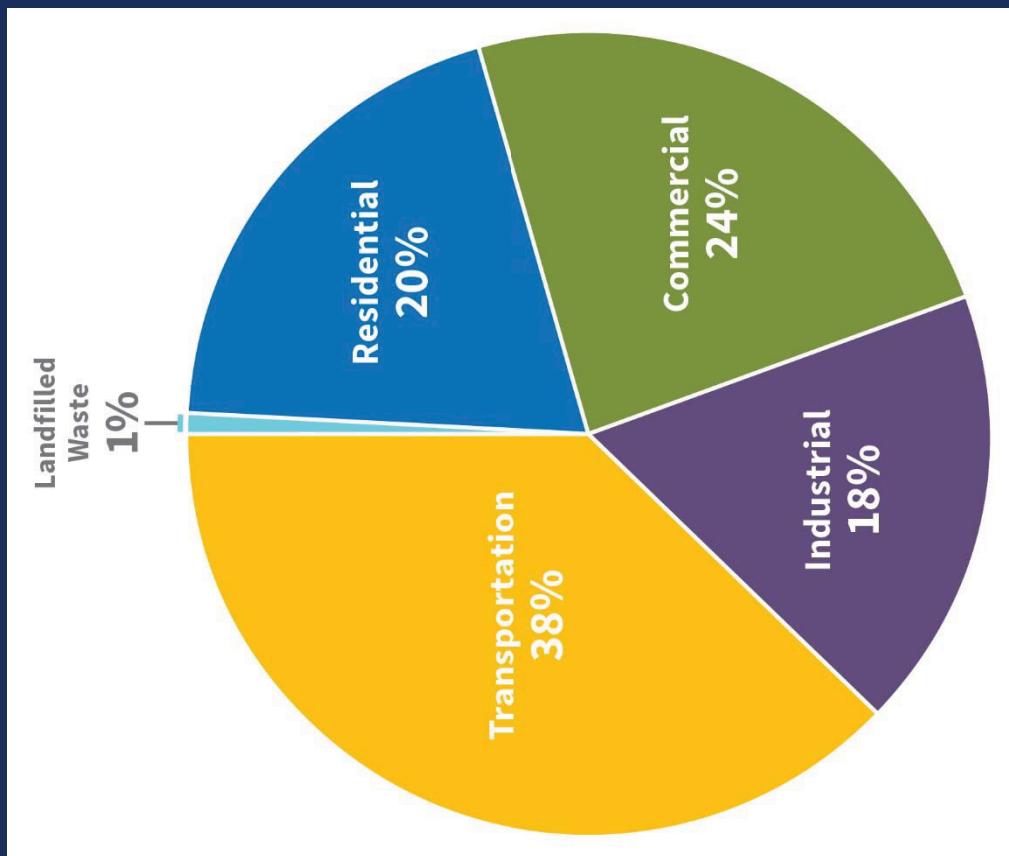
New CAP Content

- Align with Portland Plan
- Consumption
- Equity
- Climate Change Preparation



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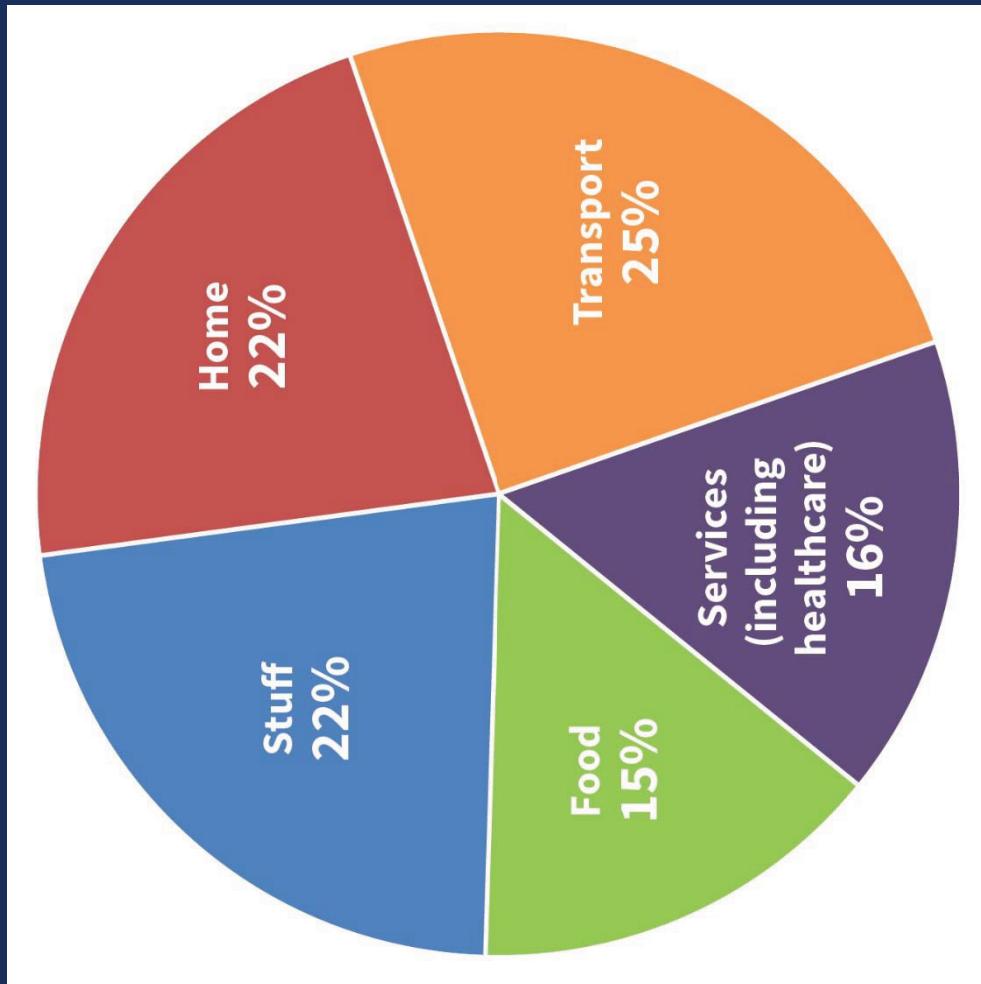
“Production” inventory of carbon emissions (Multnomah County, 2012)

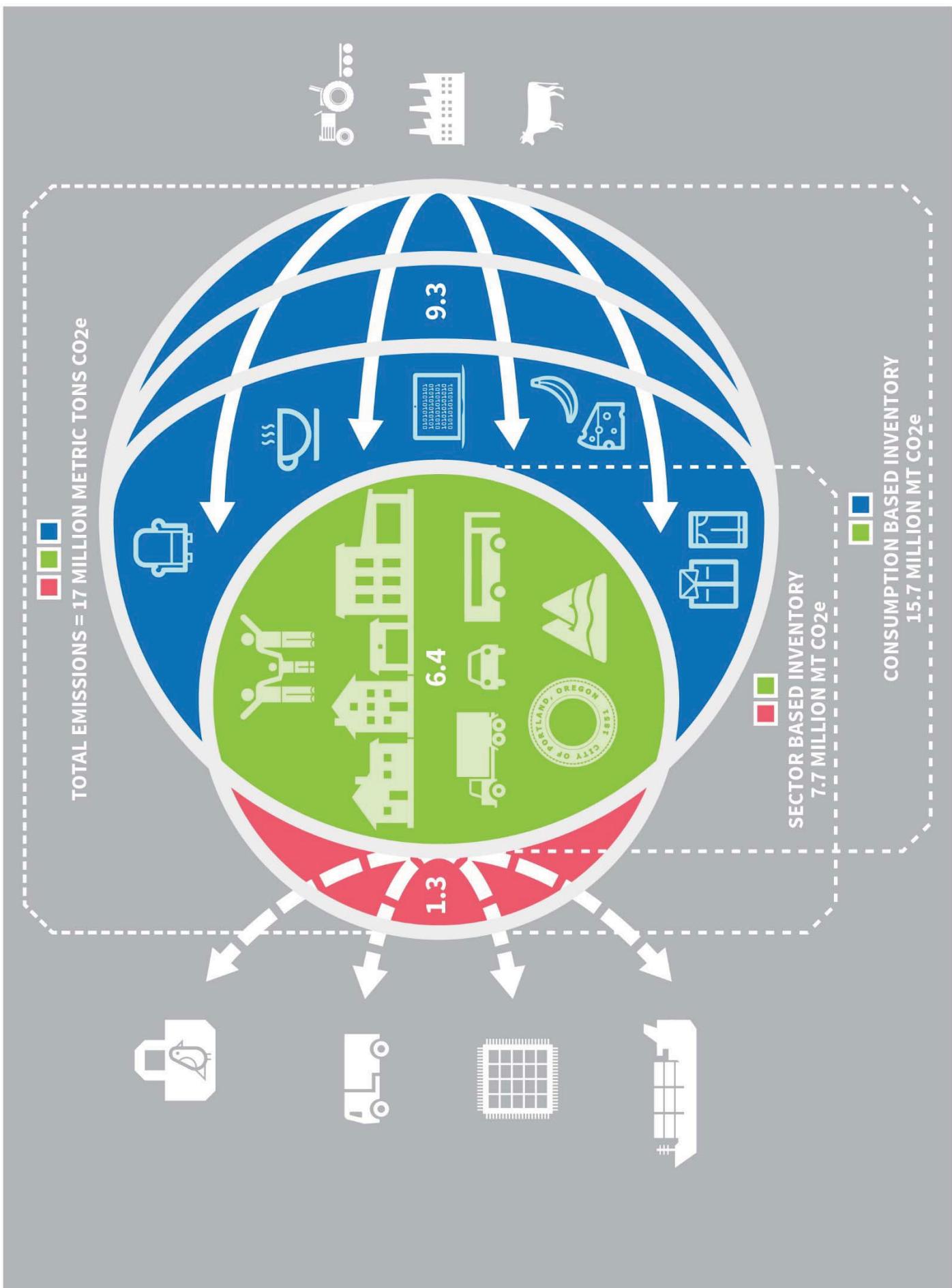


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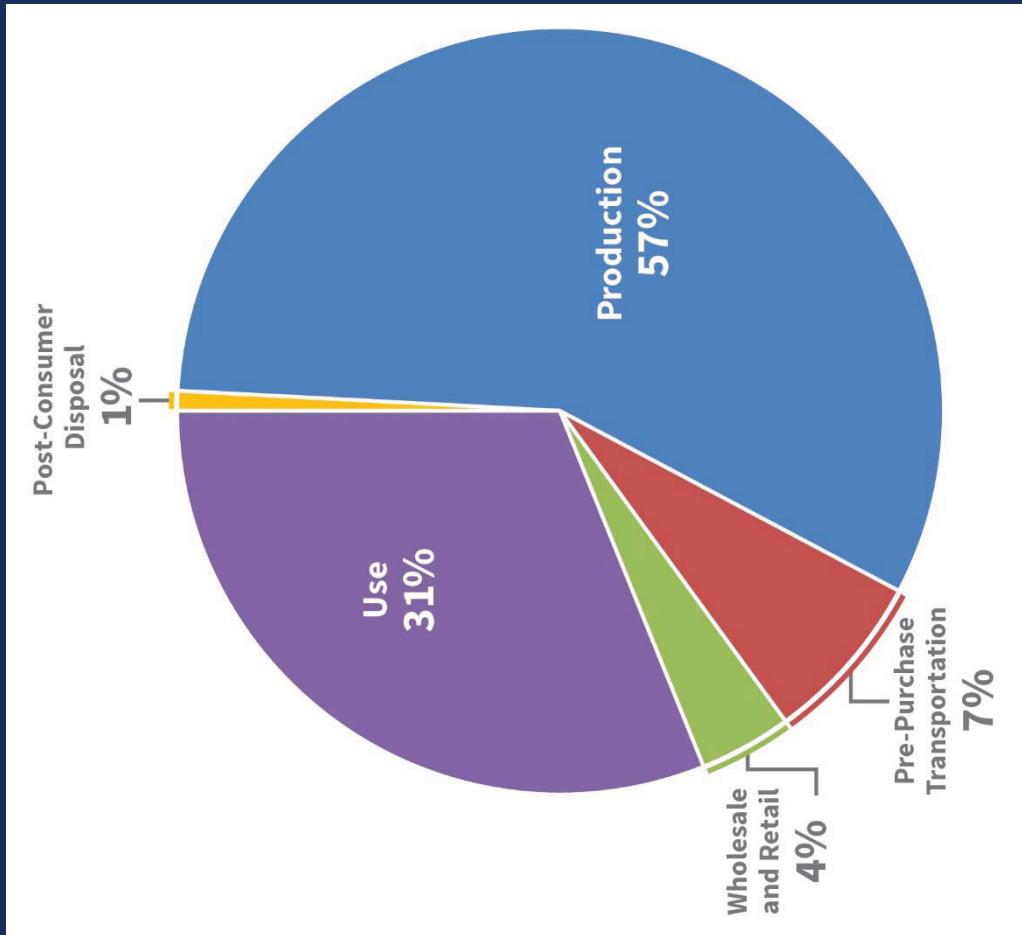


“Consumption” inventory of carbon emissions (Multnomah County, 2012)





Consumption-Based Carbon Emissions by Lifecycle Phases



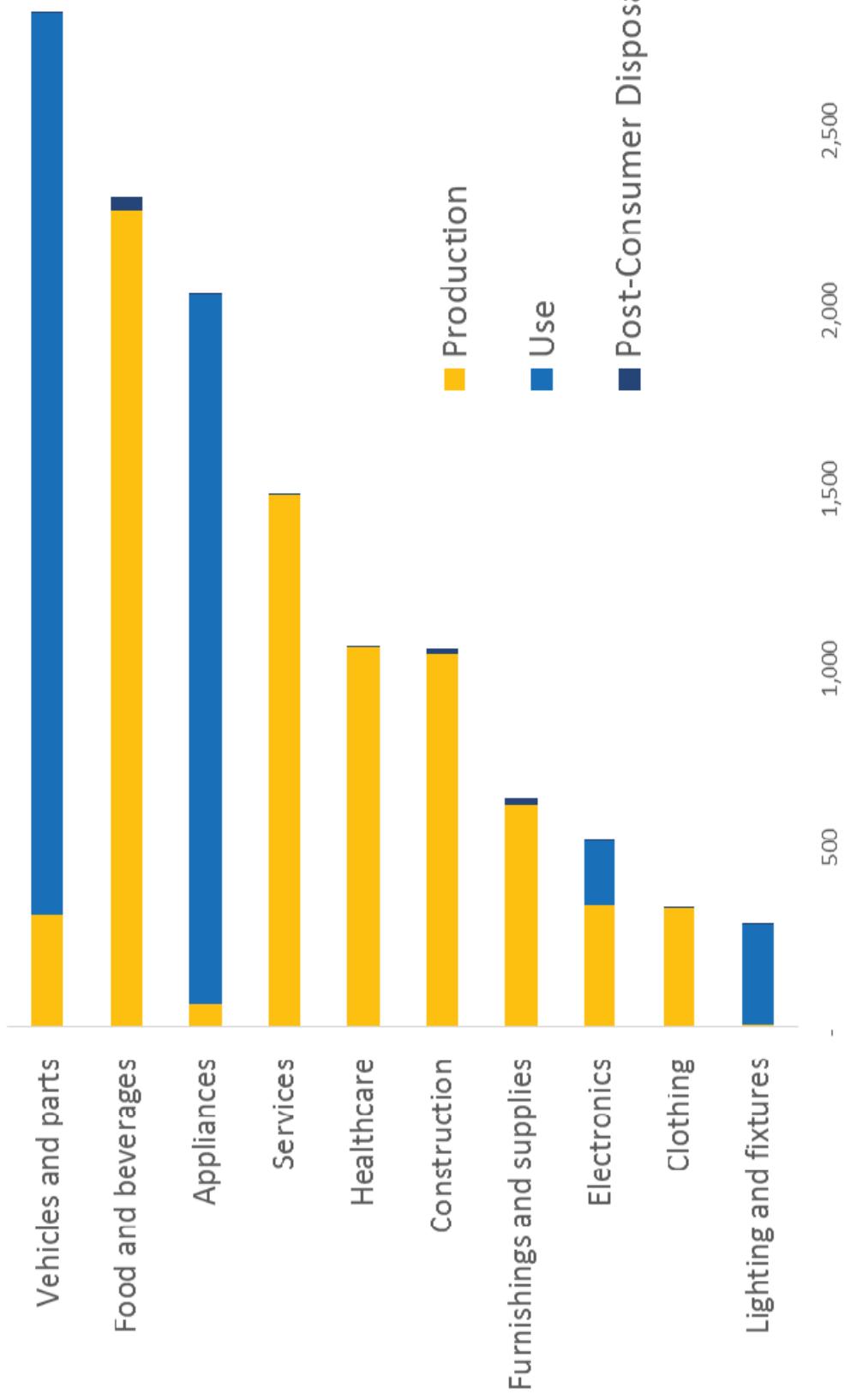
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Five-Phase "Life-Cycle" GHG Emissions Summary (1000 metrics tons CO₂-e)



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Equity Work Group



Opal – Environmental
Justice Oregon

Coalition of
Communities of
Color



Equity Work Group Outcomes

- Equity considerations
- Strategic actions/objectives
- Integrated language throughout
- Implementation guide



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Next Steps

October 2014

- Public comment period
- Open house and targeted stakeholder discussions

Early Winter 2015

- PSC hearing
- City Council and County Board



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