

CITY OF PORTLAND AND MULTNOMAH COUNTY

CLIMATE ACTION PLAN 2009

YEAR TWO PROGRESS REPORT JANUARY 2012



Bureau of Planning and Sustainability
Innovation. Collaboration. Practical Solutions.

City of Portland, Oregon
Sam Adams, Mayor • Susan Anderson, Director



Sustainability Office
Jeff Cogen, County Chair

Climate Action Plan

Builds on prior plans from 1993 and 2001

2050 Goal:

80% reduction in emissions

2030 Interim goal:

40% reduction

2030 Objectives

2012 Actions

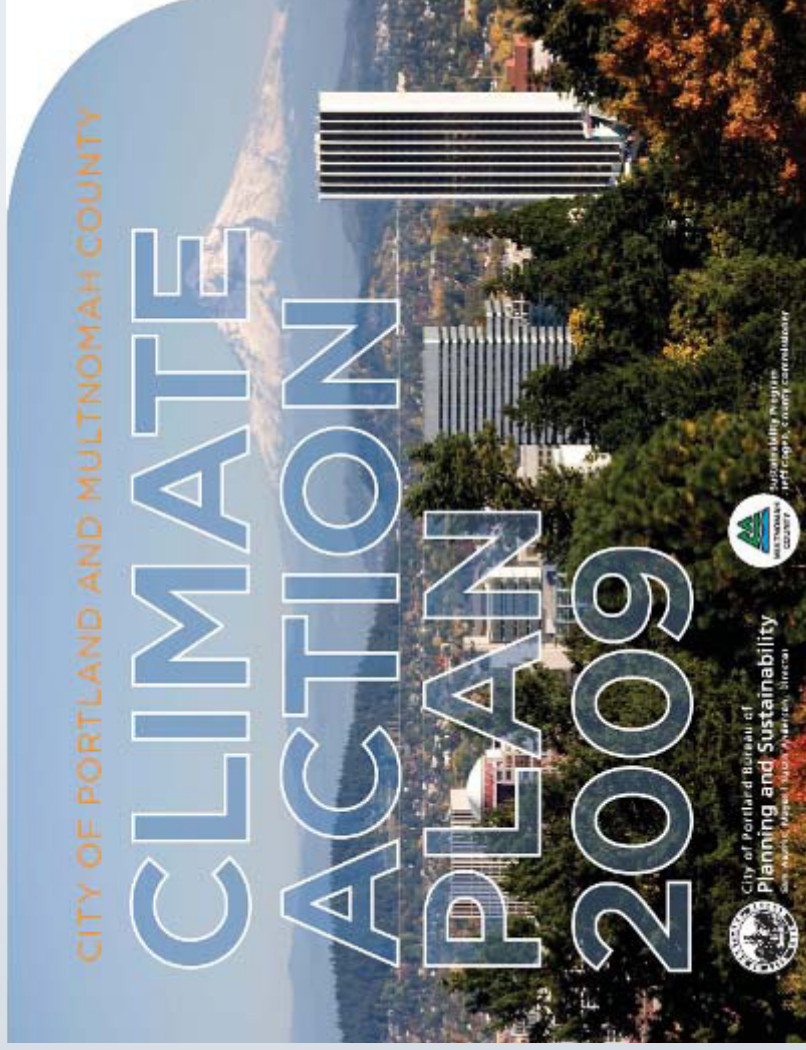
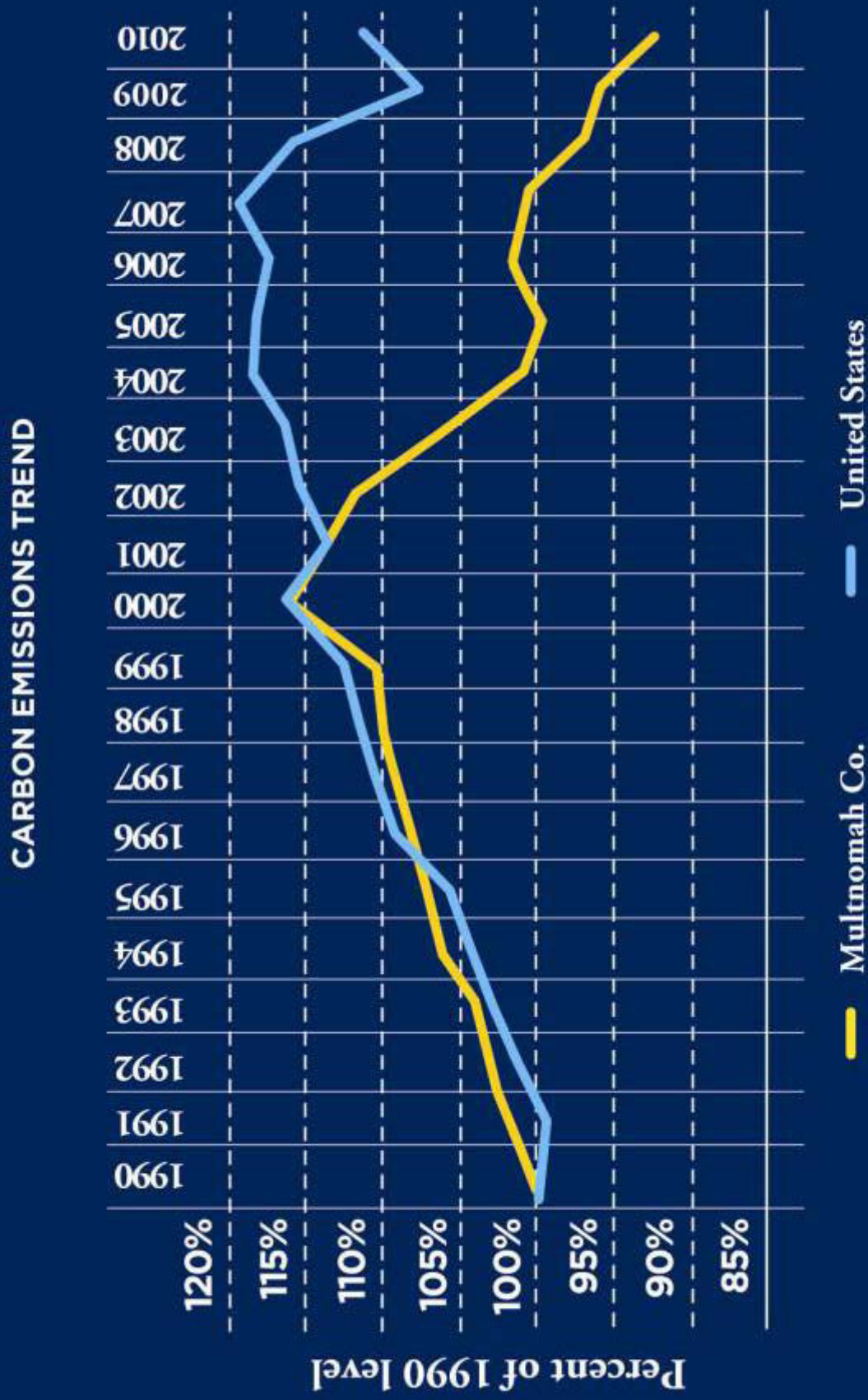


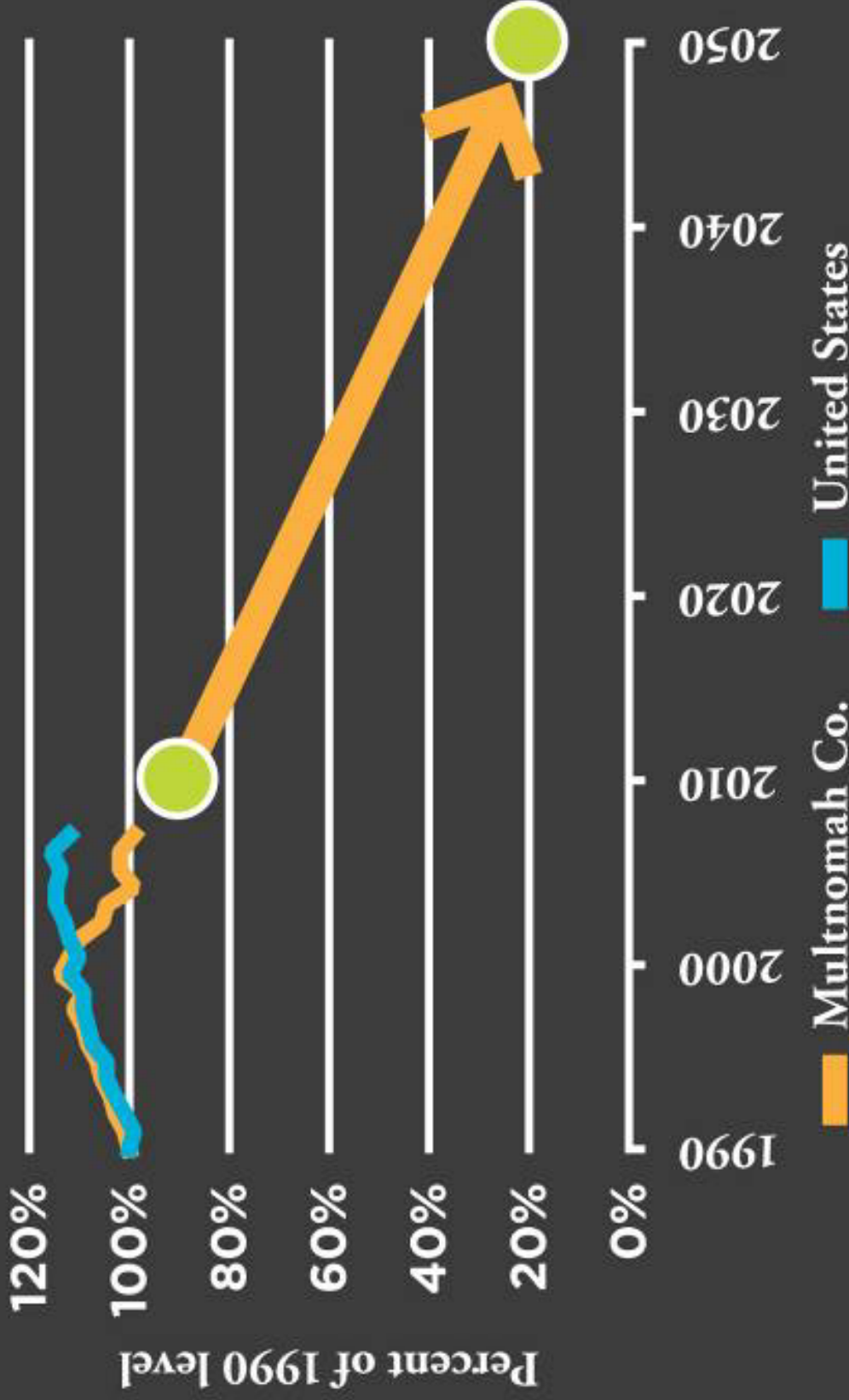
Figure 1.



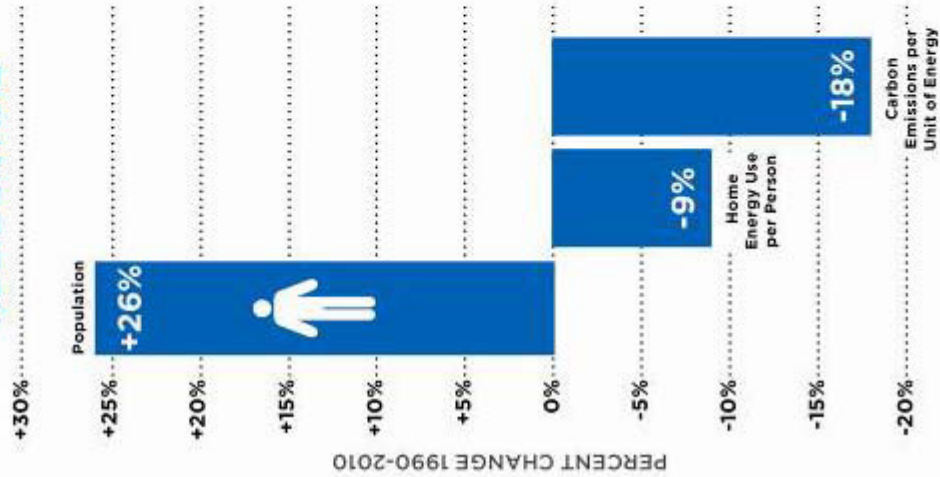
Bureau of Planning and Sustainability, U.S. Energy Information Administration

2050 Challenge

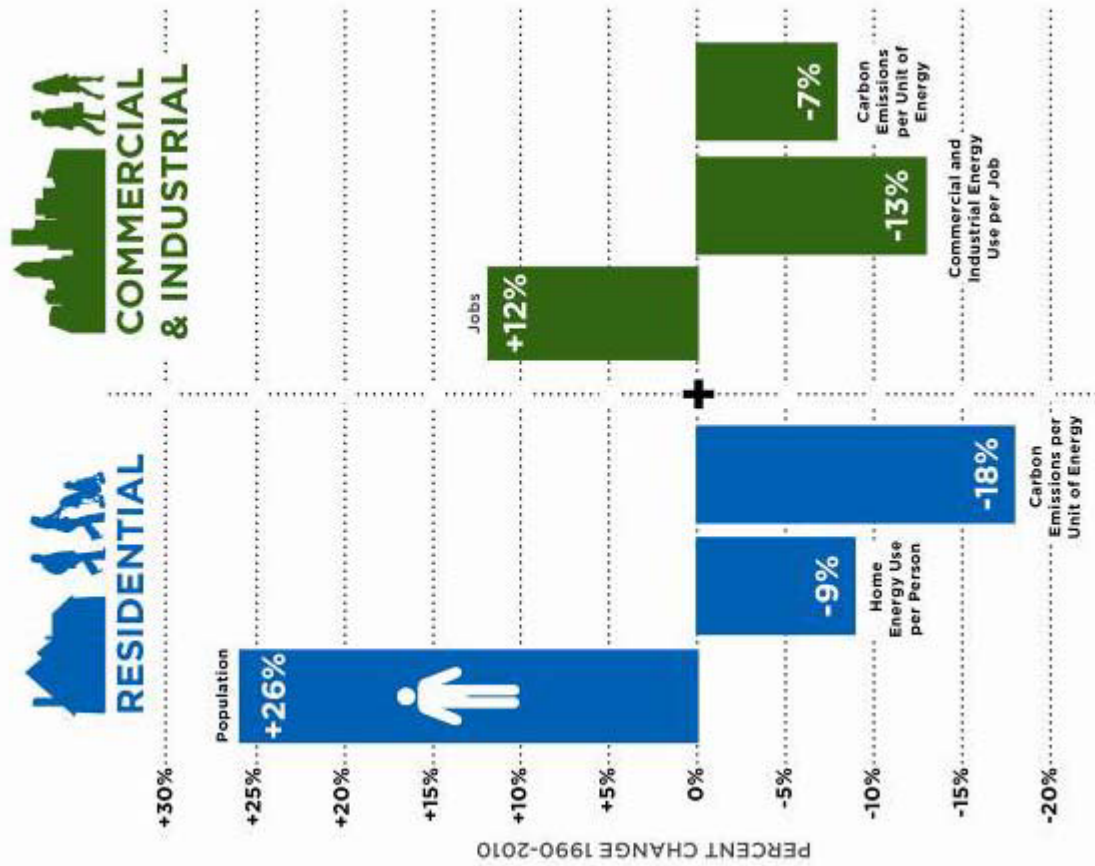
Greenhouse gas emissions trend



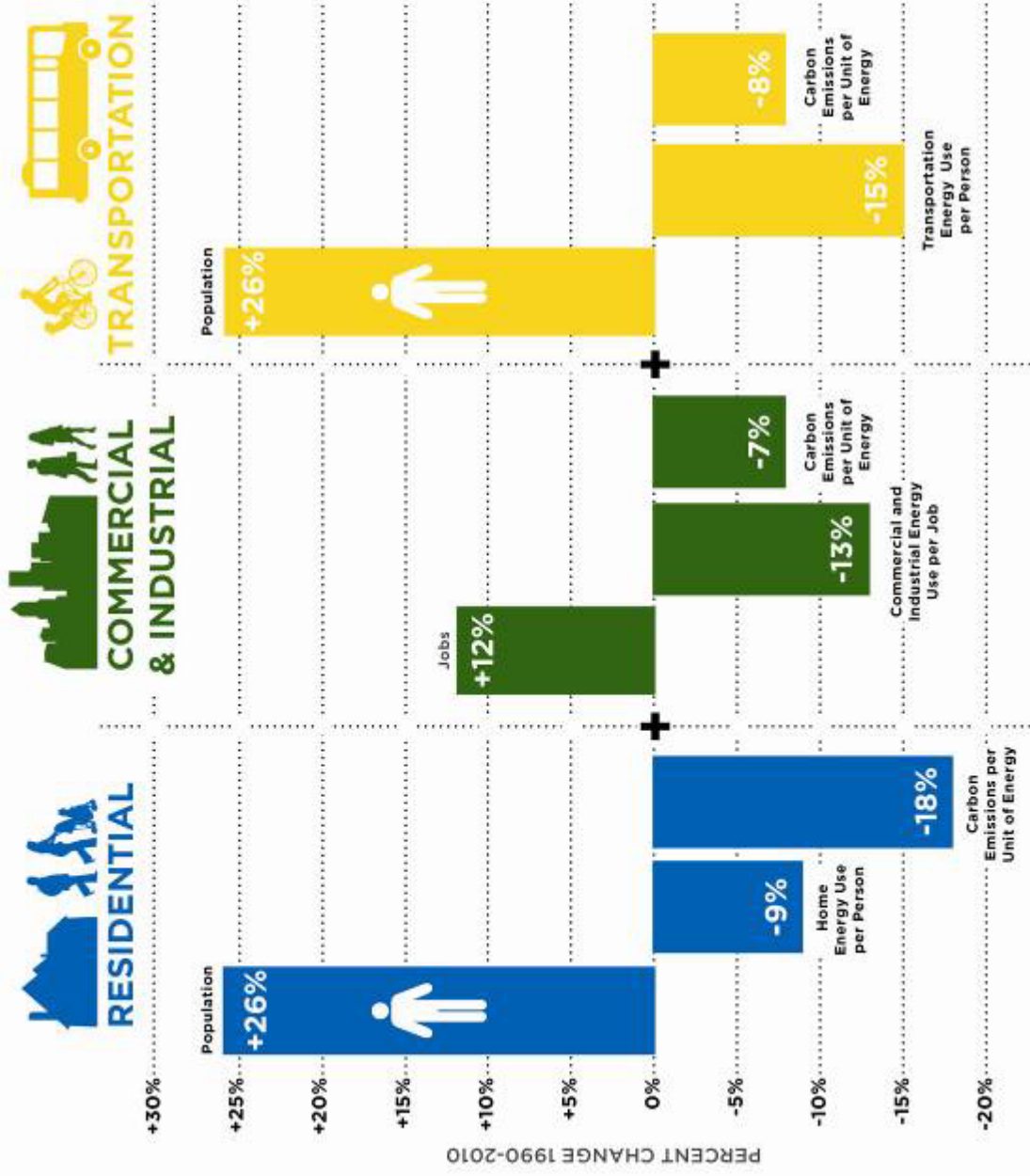
COMPONENTS OF CARBON REDUCTION IN MULTNOMAH COUNTY 1990-2010



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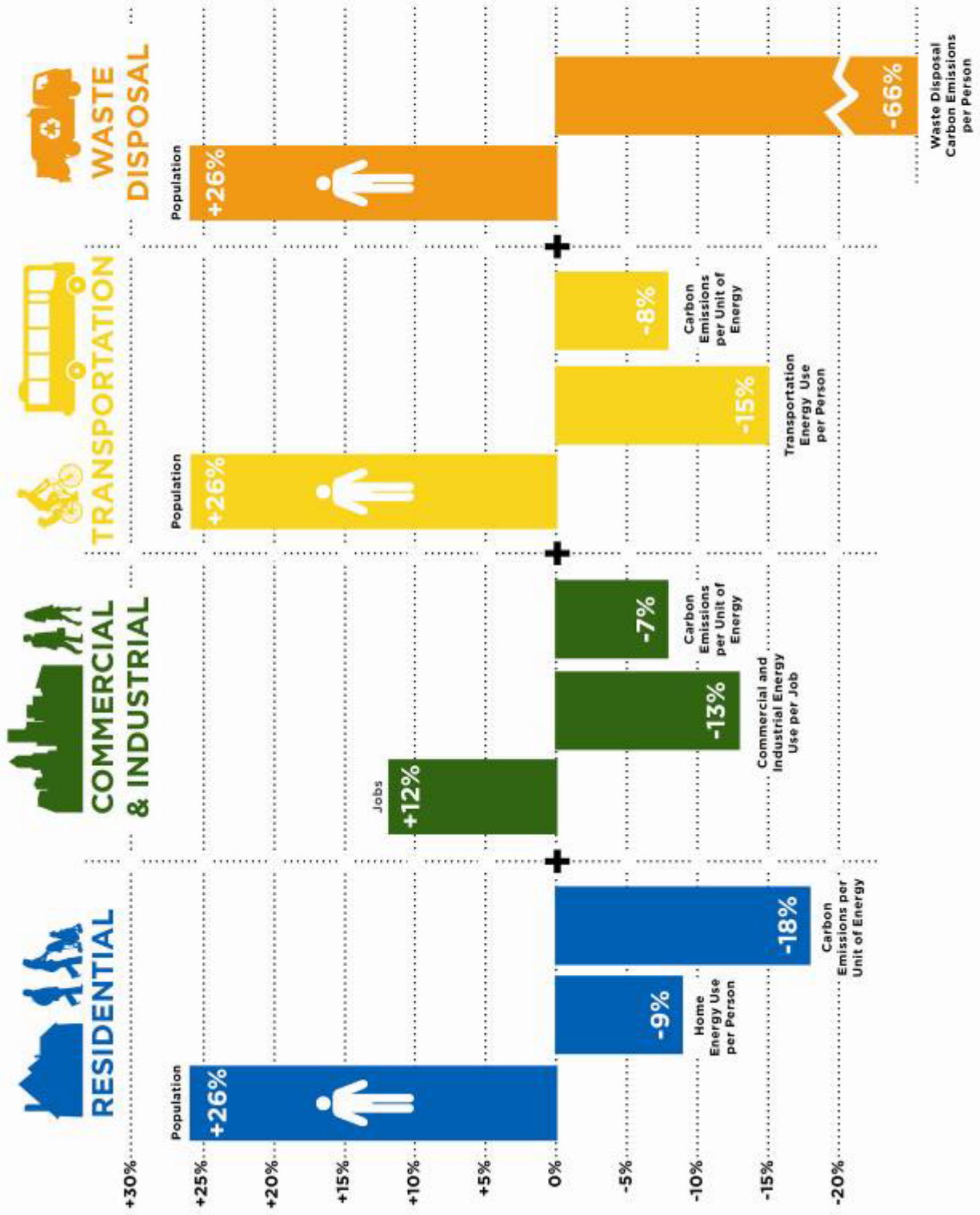


COMPONENTS OF CARBON REDUCTION IN MULTNOMAH COUNTY 1990-2010



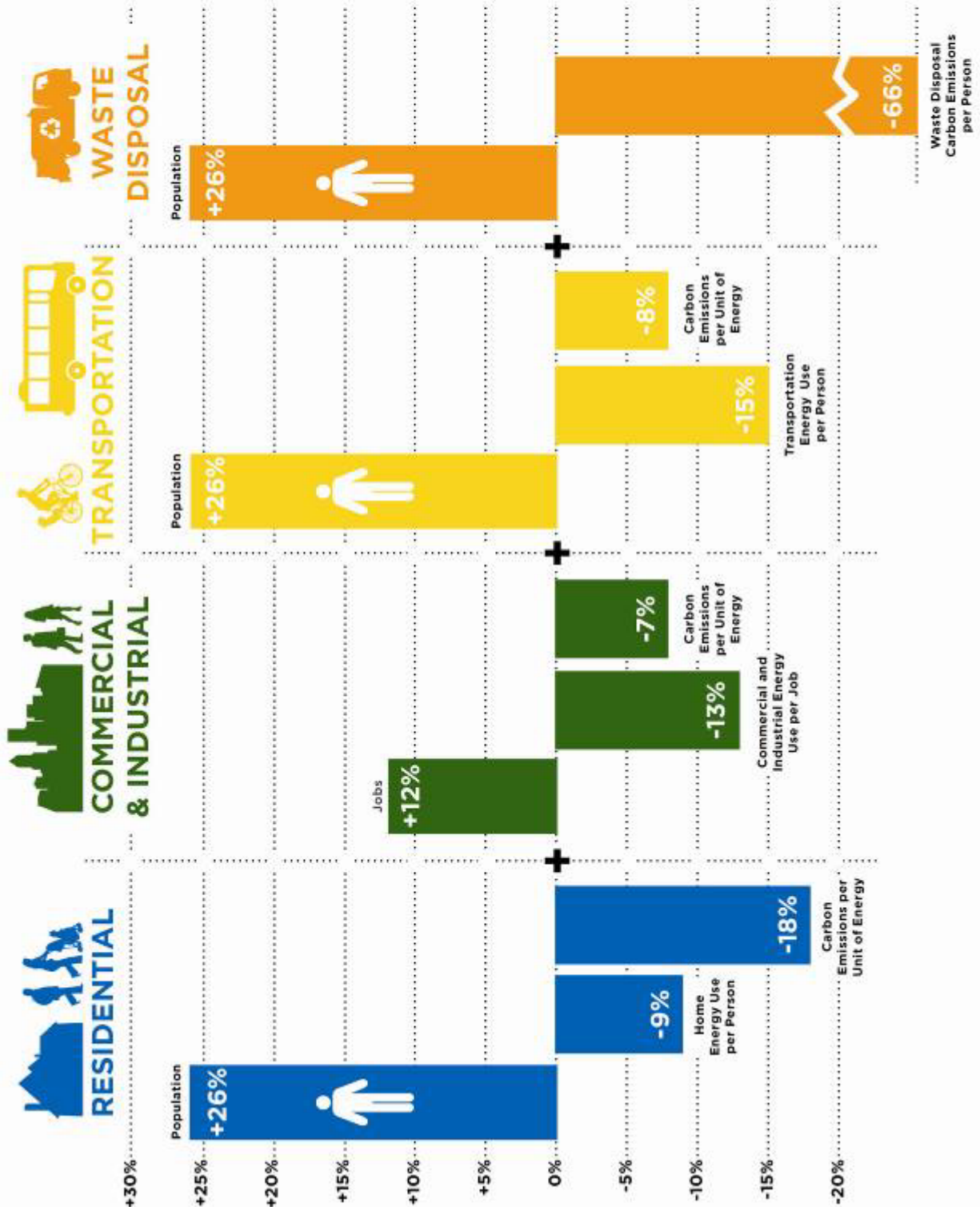
PERCENT CHANGE 1990-2010

COMPONENTS OF CARBON REDUCTION IN MULTNOMAH COUNTY 1990-2010



PERCENT CHANGE 1990-2010

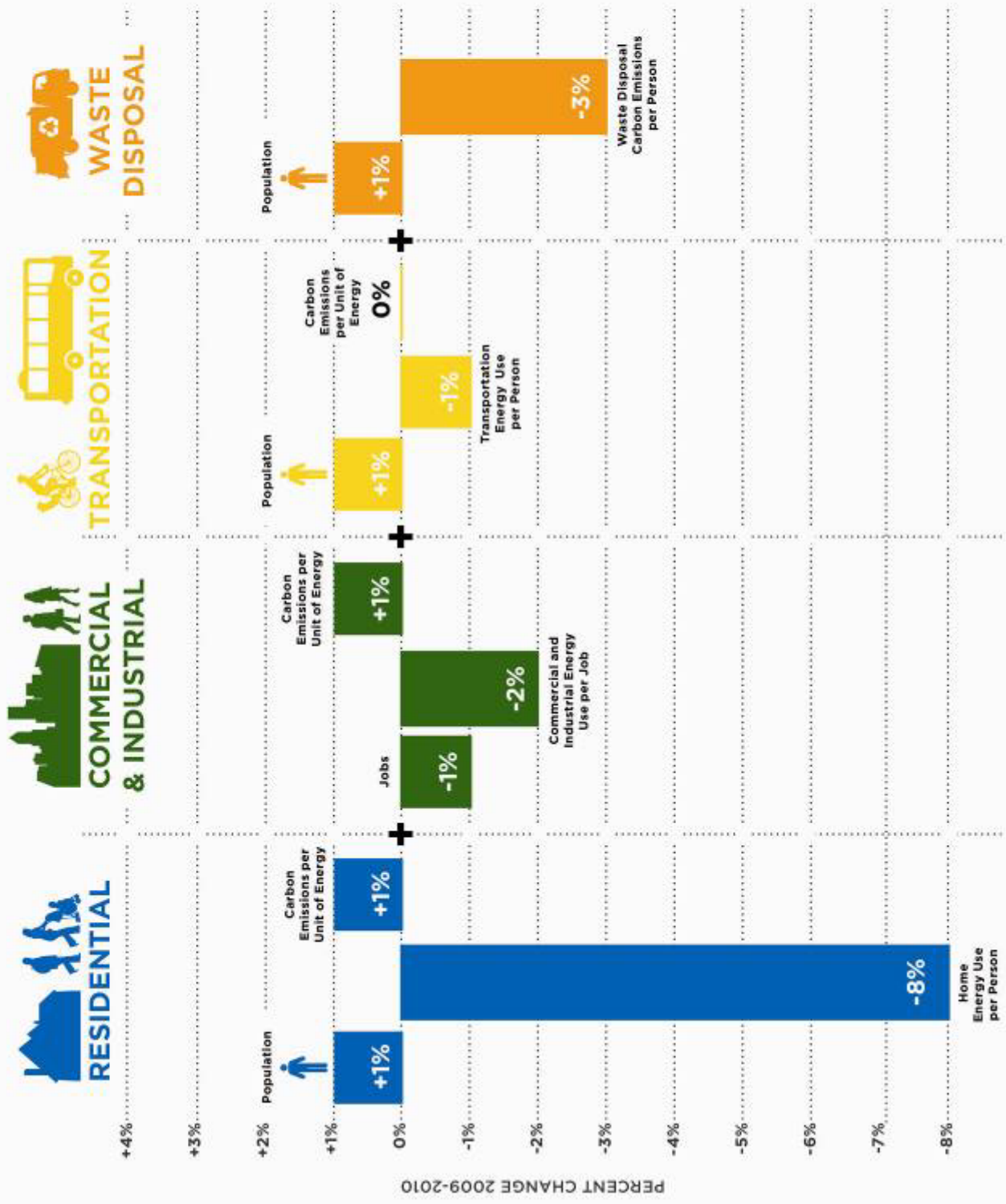
COMPONENTS OF CARBON REDUCTION IN MULTNOMAH COUNTY 1990-2010



TOTAL CHANGE IN CARBON EMISSIONS BETWEEN 1990 AND 2010

- Transportation -1%
- Waste Disposal -1%
- Residential -1%
- Commercial & Industrial -3%

COMPONENTS OF CARBON REDUCTION IN MULTNOMAH COUNTY 2009-2010



Eight 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

6

COMMUNITY ENGAGEMENT

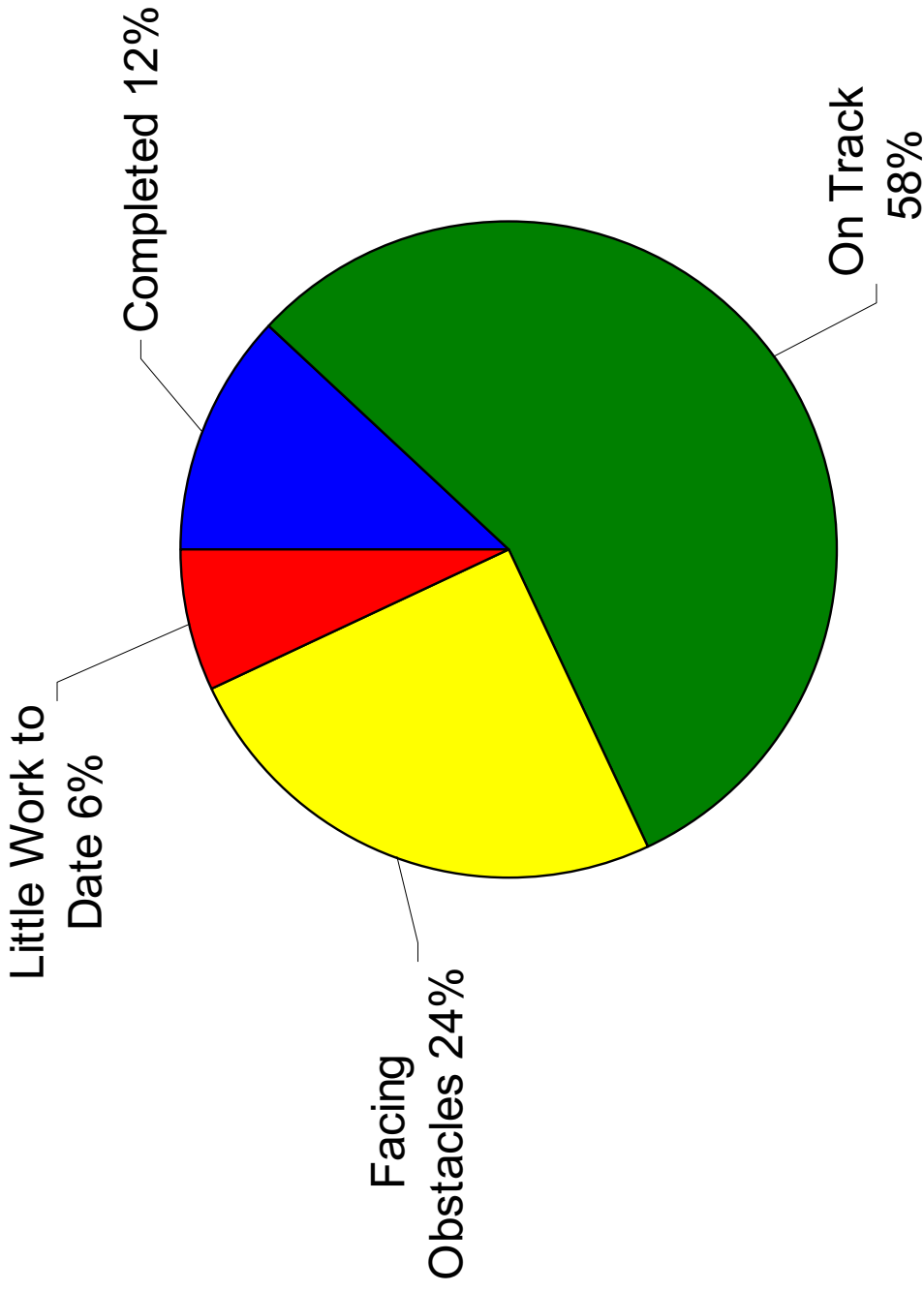
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CLIMATE CHANGE PREPARATION

8

LOCAL GOVERNMENT OPERATIONS

Status of Climate Plan Actions

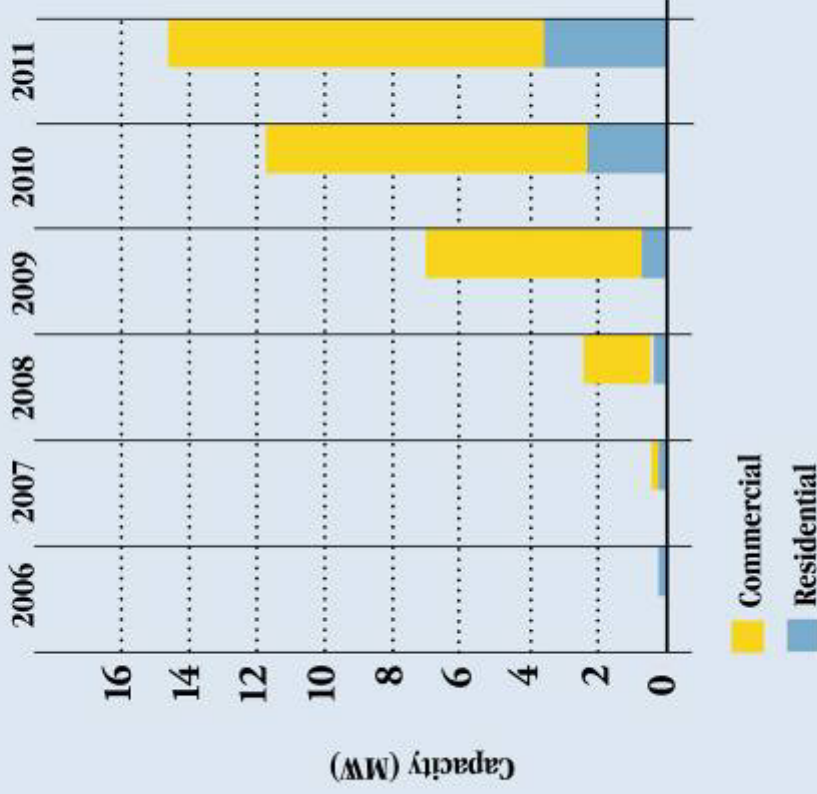


1

BUILDINGS AND ENERGY

- 1,200 Home Energy Retrofits
- Almost 15 MW of Solar!
- 2012 Actions
 - Building Performance Benchmarking

Figure 3.
Total installed Solar PV capacity
in Multnomah County.



2

URBAN FORM AND MOBILITY

- **Portland Plan Strategies:**
 - Healthy Connected City
 - Economic Prosperity and Affordability
- **Portland Plan Topics:**
 - Neighborhood business vitality
 - Aligning housing and transportation investments
 - Vibrant neighborhood hubs
 - Neighborhood greenways

2

URBAN FORM AND MOBILITY

- Challenges
 - Funding maintenance and new projects
- 2012 Actions
 - Metro's Climate Smart Communities



3

CONSUMPTION AND SOLID WASTE

- Public Place Recycling
- Food Scrap Collection



- 2012 Actions
- Mandatory Commercial Composting

4

URBAN FORESTRY AND NATURAL SYSTEMS

- Restoration and Tree Stewardship
- Completed Citywide Tree Project code update.
- Challenges
 - Assigning value to ecosystem services and green infrastructure



5

FOOD AND AGRICULTURE

- Urban Food Zoning Project
- 400 New Urban Garden Plots



- 2012 Actions
 - Food Purchasing Guidelines



COMMUNITY ENGAGEMENT

- Portland Climate Action Now!
- ReTHINK



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LOCAL GOVERNMENT OPERATIONS

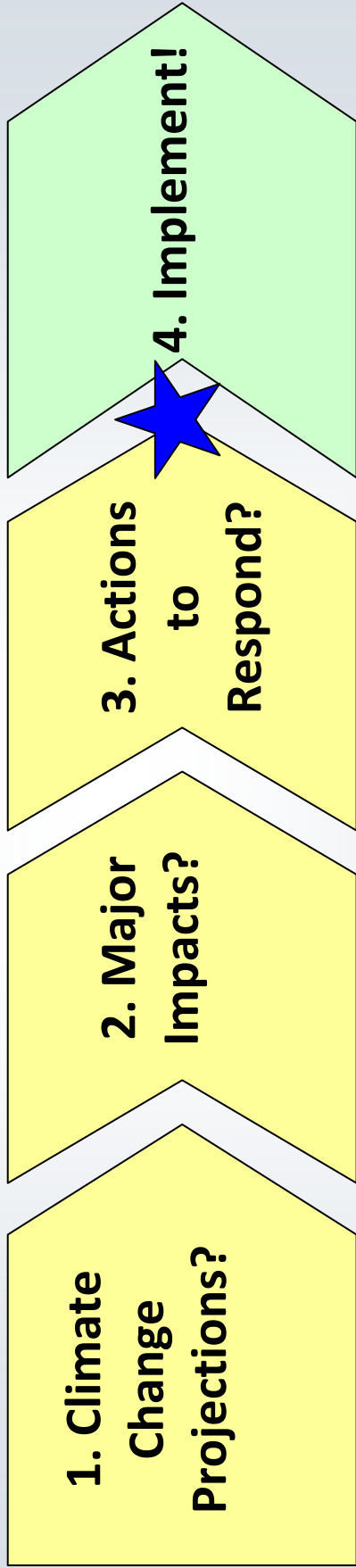
- Energy Efficiency
 - EVs in the Fleet
- City Energy Challenge
 - \$5.5 Million in savings each year
 - \$42 Million total saved since 1991





CLIMATE CHANGE PREPARATION

Adaptation Strategy to
City Council and County Board:
December 2012



7

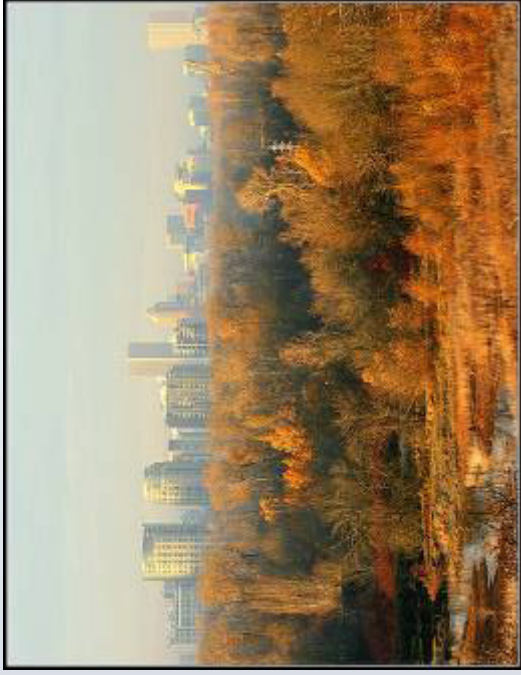
CLIMATE CHANGE PREPARATION

- We Expect
 - Increased temperatures (max and min)
 - Changes when and how precipitation falls
 - Weather patterns to continue to be influenced by larger cycles (e.g. El Nino)
- We Just Don't Know
 - Changes in total annual precipitation amounts?
 - Extreme weather events?

7

CLIMATE CHANGE PREPARATION

- City/County Adaptation Planning
- Regional Collaboration



7

CLIMATE CHANGE PREPARATION

- Built Infrastructure
 - Convened group in April 2011 - Asset Management/Risk-based focus
 - Agreed on expected climate changes
 - Identified potential impacts to infrastructure
 - Listed possible adaptation strategies
 - Tentative list of actions in February 2012
 - Will coordinate with Natural Resources and Health before finalization

7

CLIMATE CHANGE PREPARATION

- Built Infrastructure - Recommendations
 - Administrative/Institutionalizing
 - Planning
 - Infrastructure Planning
 - Emergency Planning
 - No Regrets Actions
 - Implement the Watershed Management Plan
 - Resource Efficiency
 - Water Supply Resilience
- Indicators and Monitoring

7

CLIMATE CHANGE PREPARATION

- Health and Human Systems
- Understand and prepare for vulnerabilities:
 - Public Health Vulnerability Assessment
 - Vulnerable populations project
 - Emergency management lens
- Mapping existing vulnerabilities/populations
- Projecting climate impacts
- Gap analysis of strategies/interventions

7

CLIMATE CHANGE PREPARATION

- Recommendations will focus on:
 - Strategies to protect the most vulnerable
 - Emphasis on actions with co-benefits
 - Key indicators for measuring climate impacts
 - Addressing climate gaps in planning
- Spring 2012 - Identify gaps
- Summer 2012 - Draft recommendations
- Fall 2012 - Synthesize rec., draft joint Plan

7

CLIMATE CHANGE PREPARATION

- Natural Systems are already seeing impacts



7

CLIMATE CHANGE PREPARATION

- Natural Resources
 - In 2011, BES focused the existing “Natural Resources Team”, incorporated to implement the PWMP across bureaus, on Climate Adaptation for 2011-12.
 - Includes representatives from Environmental Services, Parks, Planning and Sustainability, Transportation, and Water.
 - Focus on impact to natural resources and recommendations to improve adaptive capacity throughout the City

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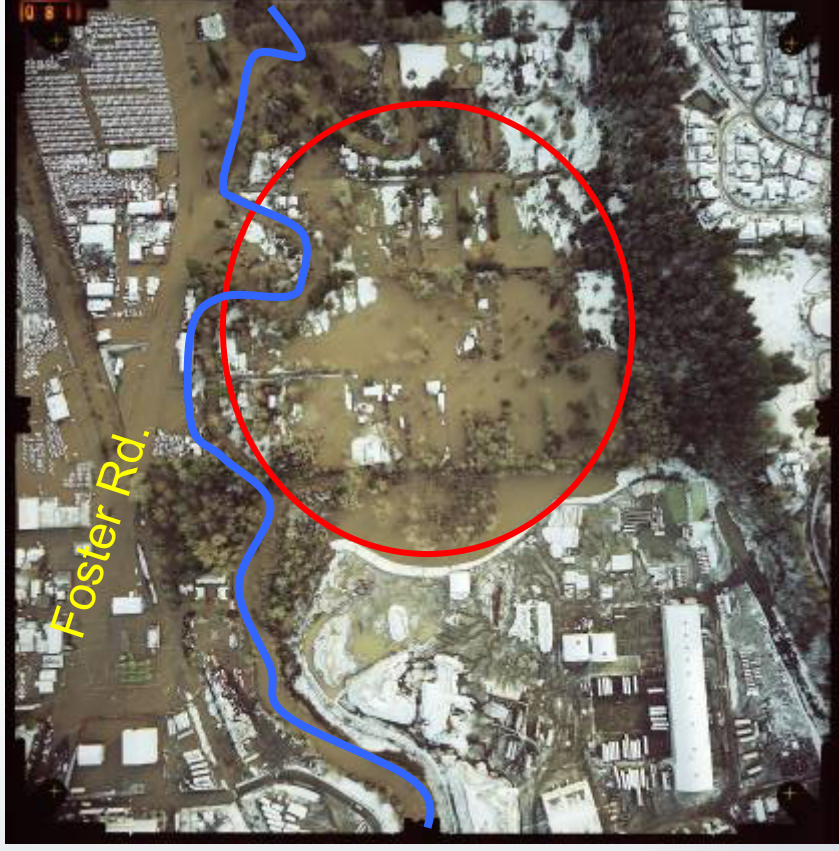
CLIMATE CHANGE PREPARATION

- Work Plan
 - Literature review of impacts - very reliant on existing work which was summarized by Lovell and Houck in Regional Conservation Strategy. - Done
 - Impacts assessment on resources owned, managed, regulated or relied on by the city bureaus - March-April
 - Vulnerability assessment - what is the risk? What programs/activities currently exist that mitigate the impacts? - April - May
 - Gap analysis - May - June
 - Recommendations for adaptation - find synergies, conflicts and no regrets strategies in cooperation. July - August.

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CLIMATE CHANGE PREPARATION

- What does Climate Adaptation look like?



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