

Climate Recovery Targets and Benchmarks November 23, 2015



Overview

1. Overview of Climate Recovery Ordinance
2. Internal Targets and Benchmarks
3. Community Targets and Benchmarks

Climate Recovery Ordinance

1. Clarifies and codifies existing goals:

Reduce community-wide fossil fuel use 50% by 2030
Carbon Neutral City operations by 2020

2. Calls for an assessment of current efforts

Reported to Council February 2015

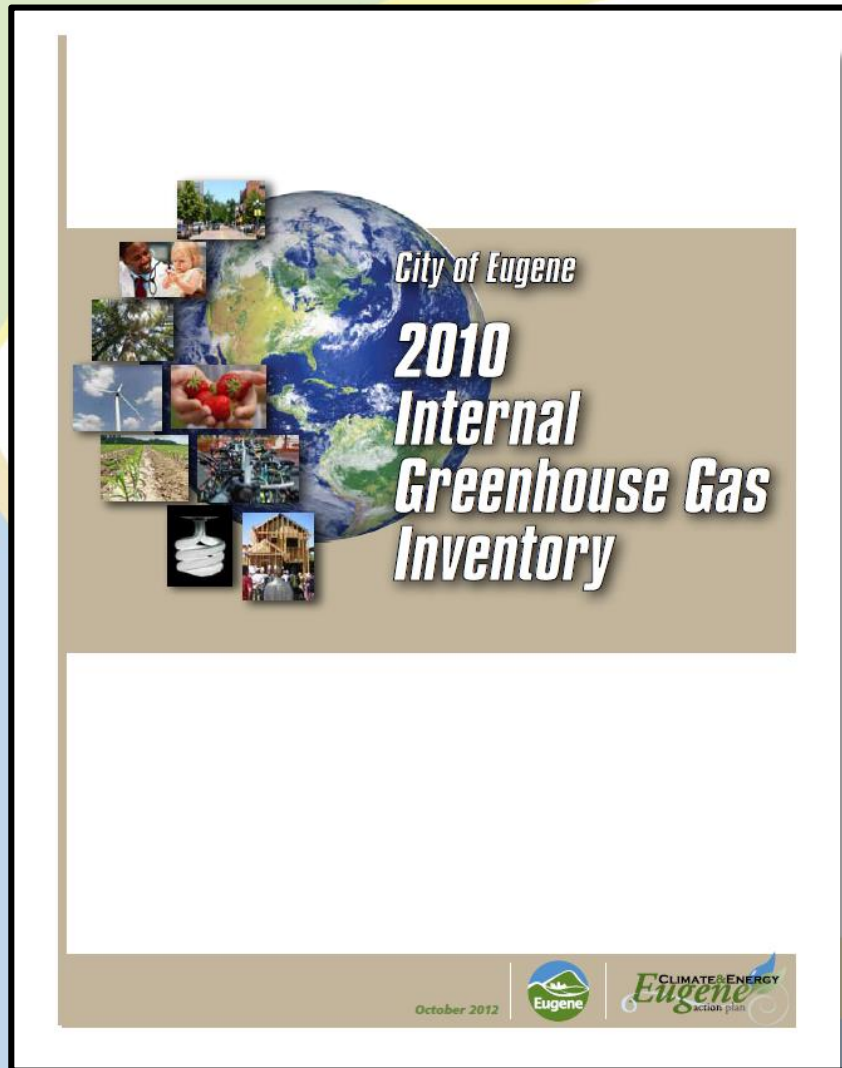
3. Calls for Targets and Benchmarks to achieve existing goals

4. Calls for the development of a science-based community greenhouse gas reduction goal

5. Calls for regular progress reports to Council

6. Establishes a process of analysis, reporting, and readjustment if community or internal targets are not met.

Internal Climate Action Plan

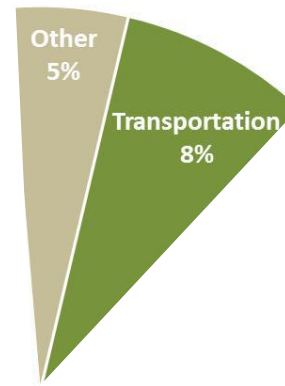


Internal Highlights



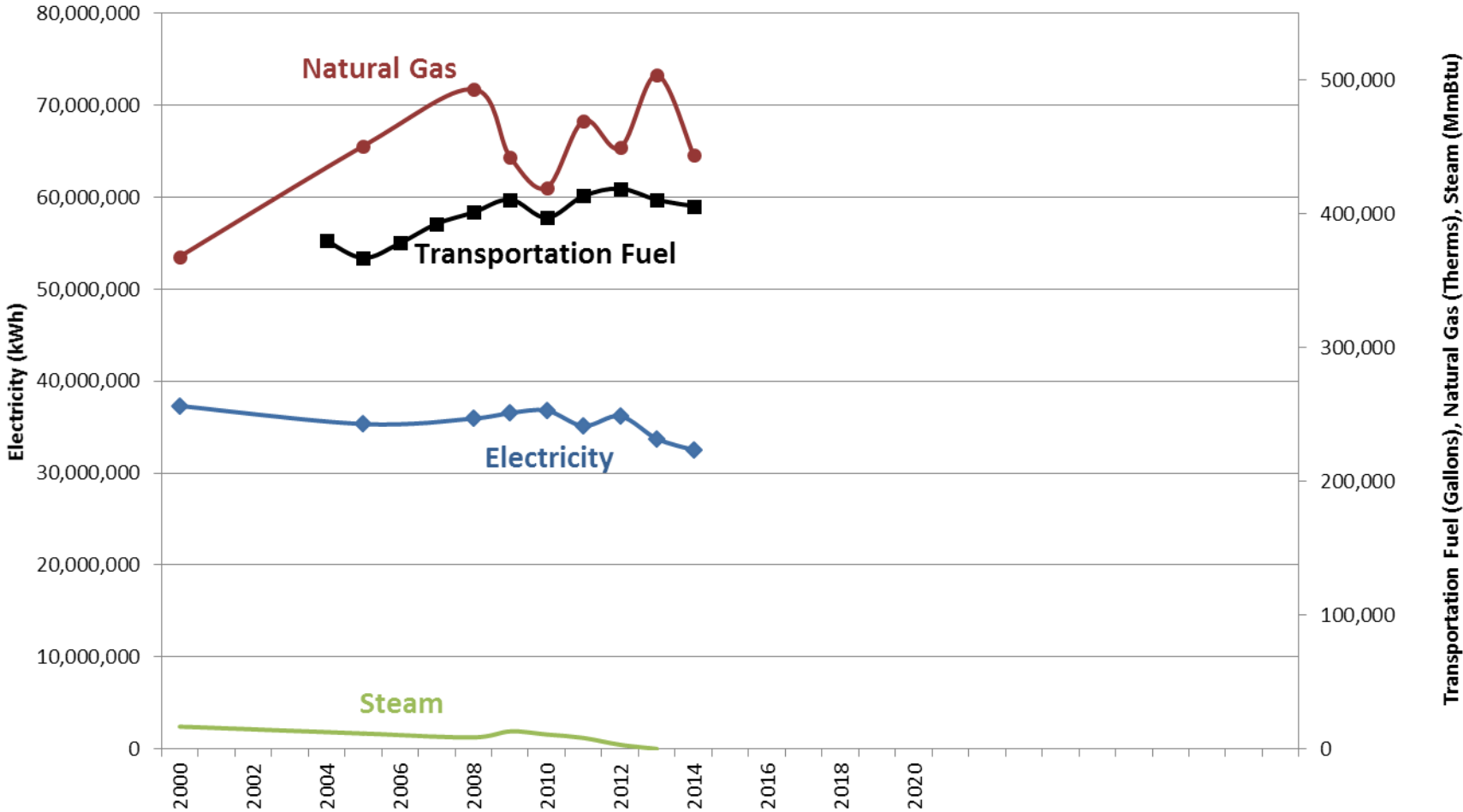
Internal Greenhouse Gas Emission Sources (2010)

City of Eugene Internal
Greenhouse Gas Emissions Sources



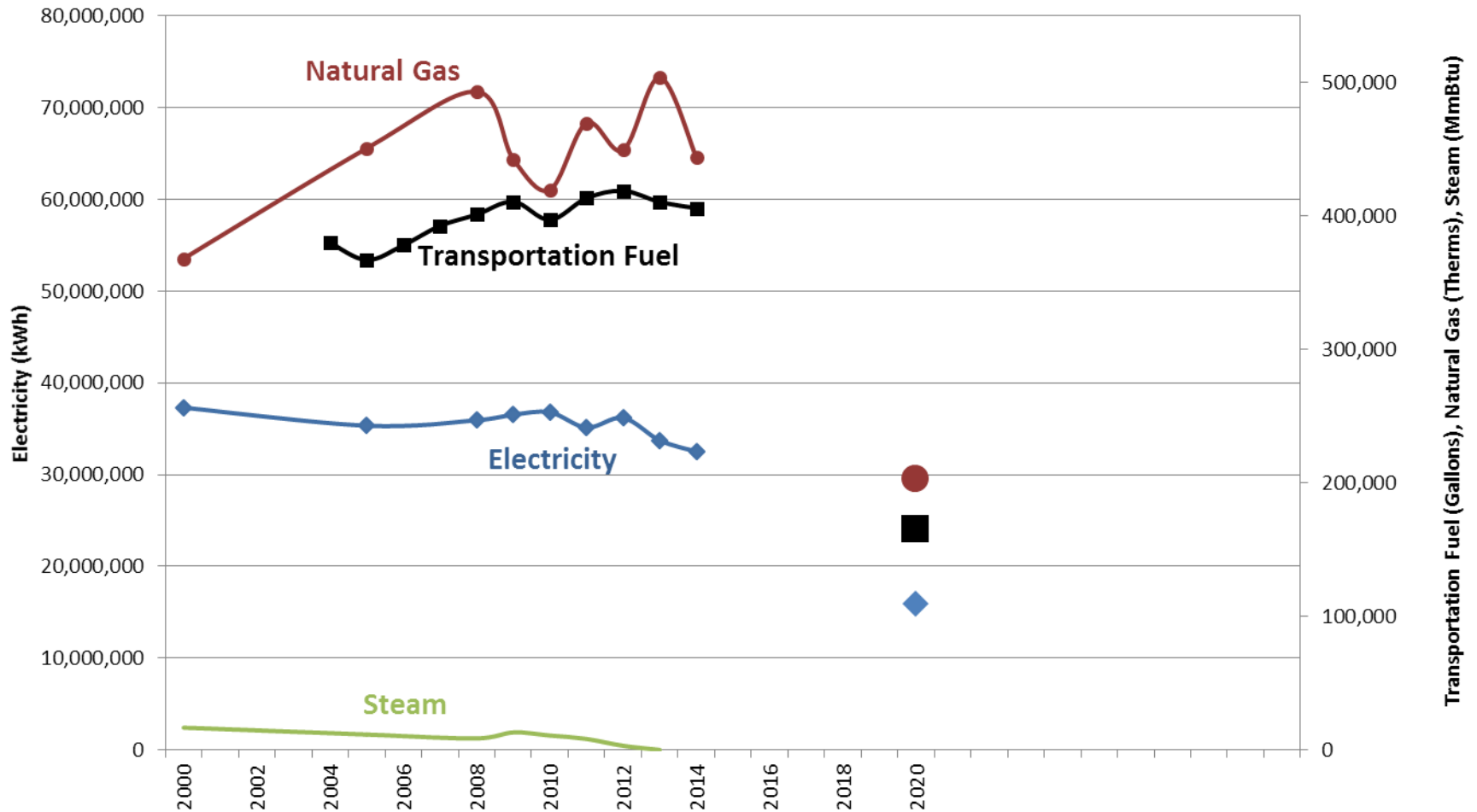
Internal Trends

City of Eugene Internal Greenhouse Gas Emissions Sources



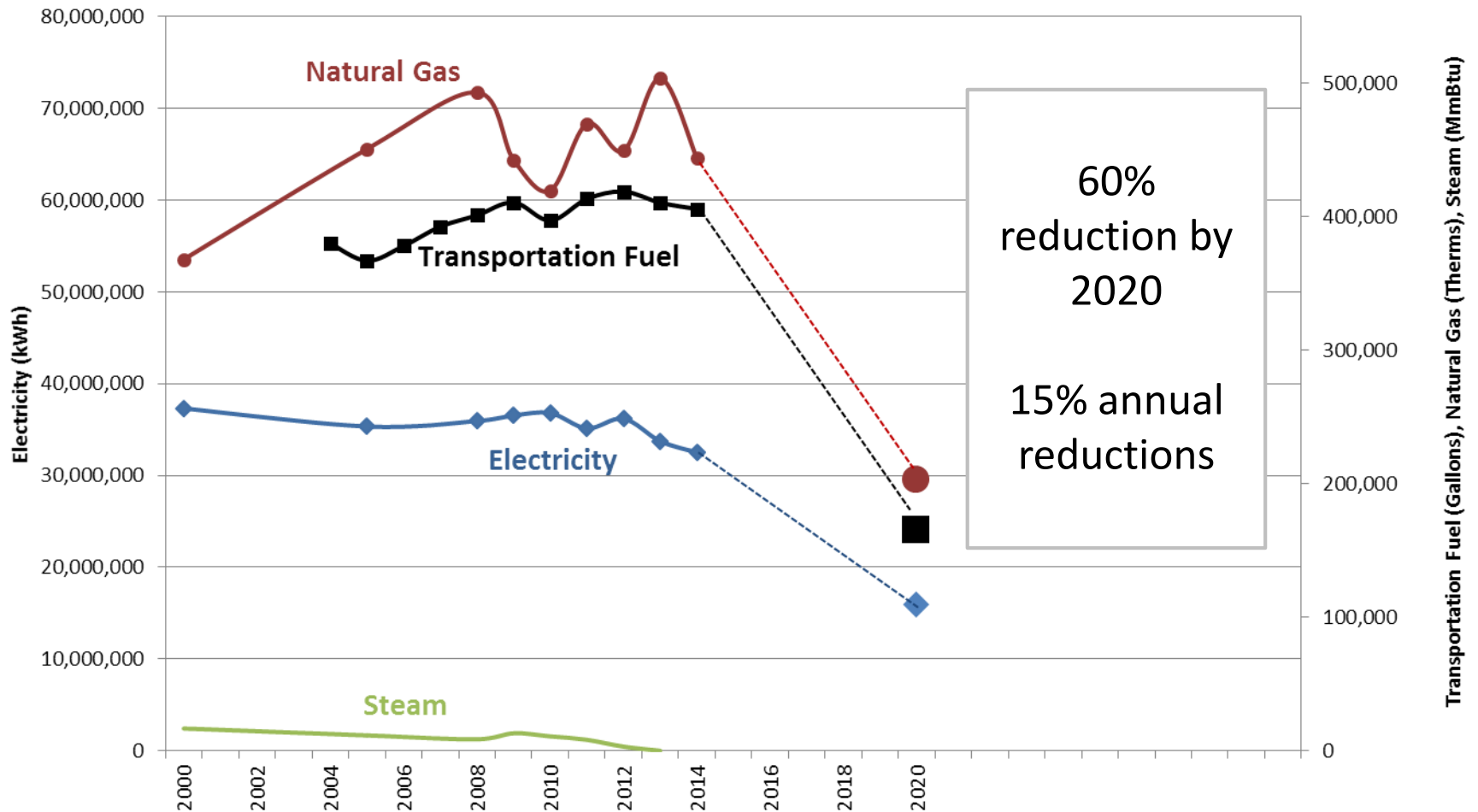
Internal Targets

City of Eugene Internal Greenhouse Gas Emissions Sources



Internal Targets

City of Eugene Internal Greenhouse Gas Emissions Sources

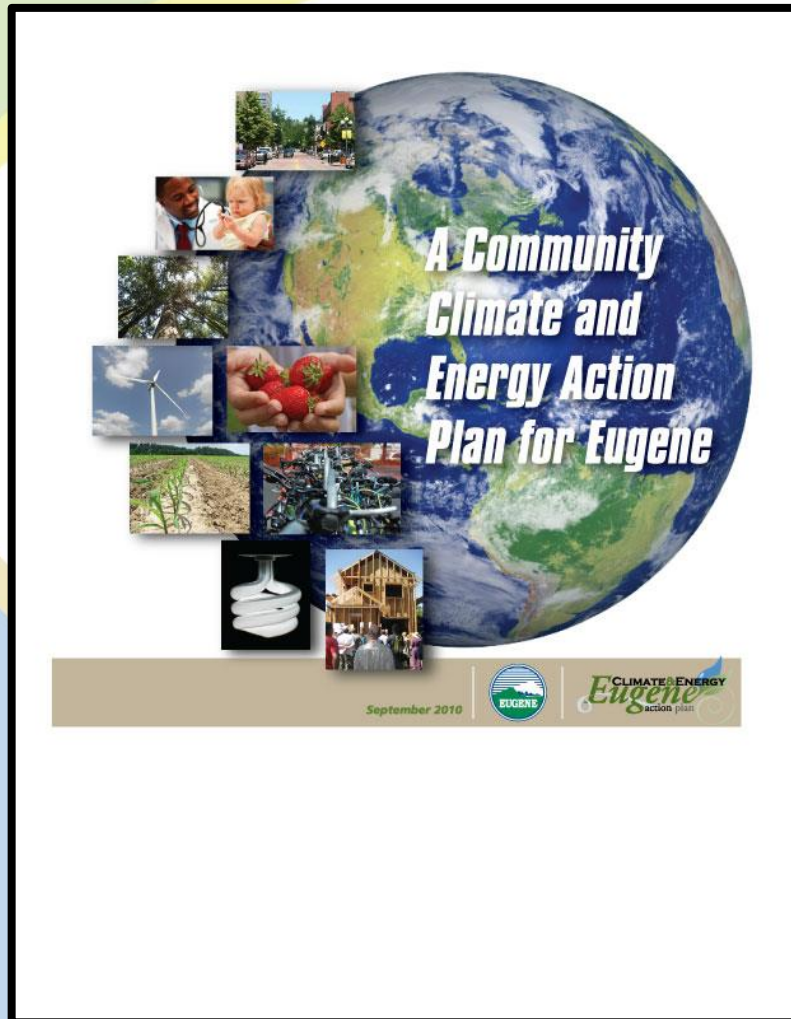




Internal Targets and Benchmarks:

Clarifying Questions?

Community Climate and Energy Action Plan (2010)



Community Climate and Energy Action Plan (2010)

1. Buildings and Energy
2. Food and Agriculture
3. Land Use and Transportation
4. Consumption and Waste
5. Health and Social Services
6. Urban Natural Resources



Community Highlights



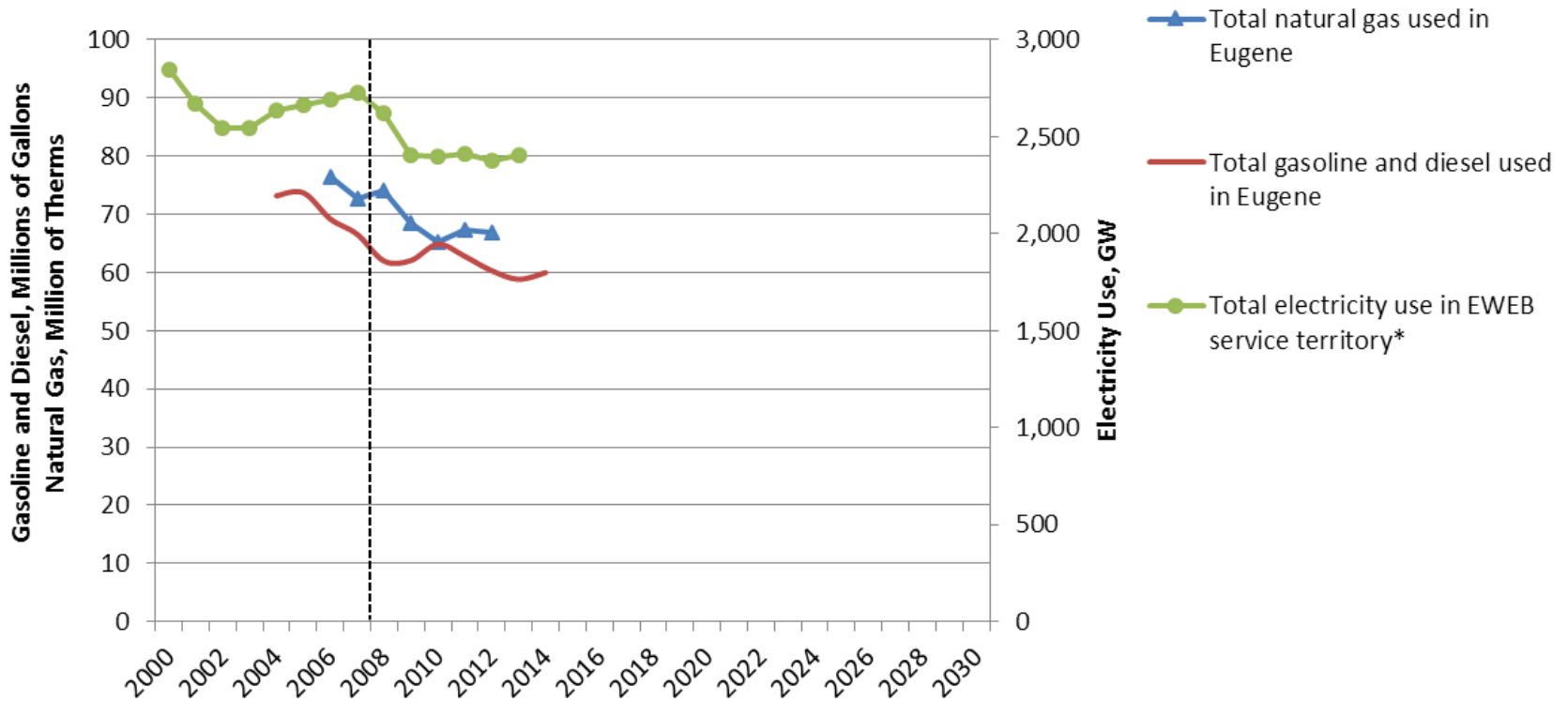
Community Greenhouse Gas Emissions (2013)

Eugene Greenhouse Gas Emissions Sources 2013



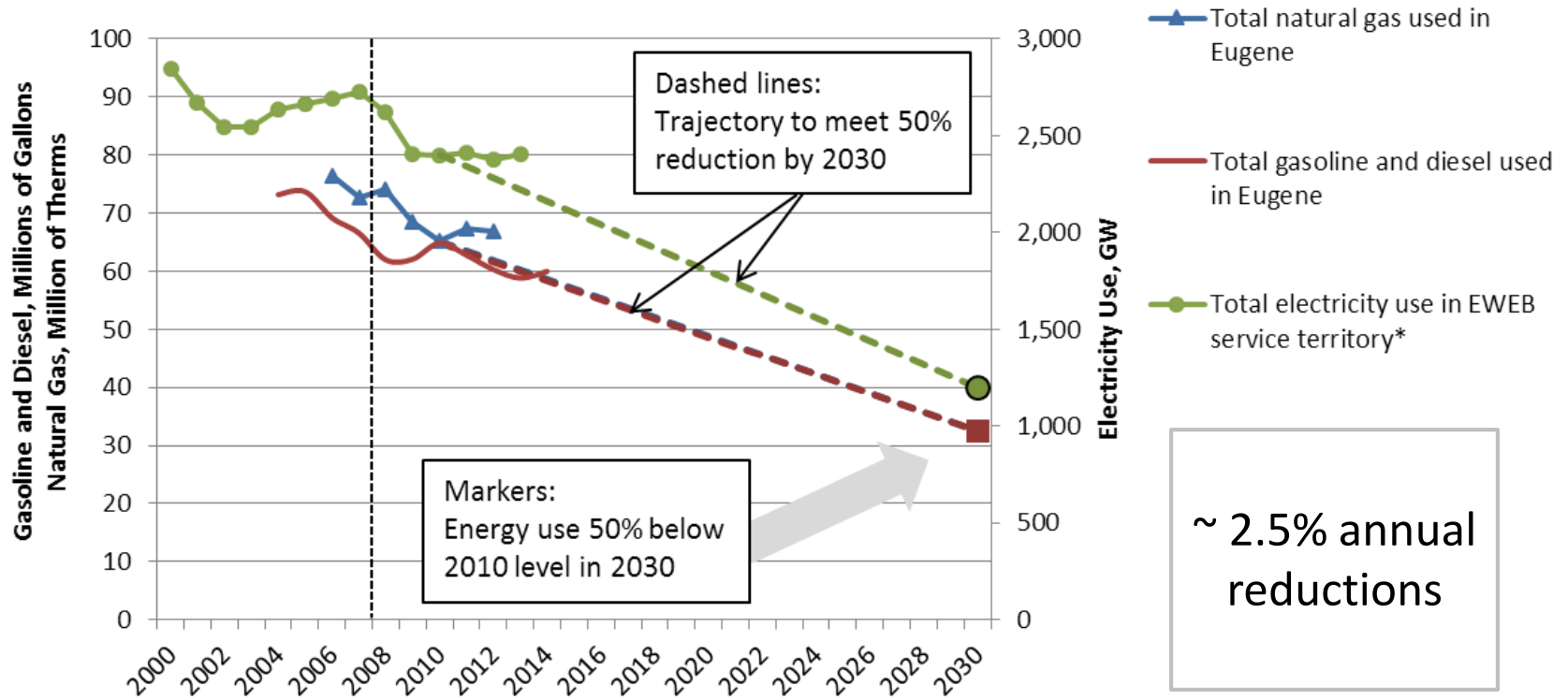
Community Energy Trends

Select Measures of Community-wide Energy Use in Eugene, Oregon



Community Energy Trends

Select Measures of Community-wide Energy Use in Eugene, Oregon



How do we get there?

SOLUTIONS: BUILDINGS

LESS WASTE



SMART BUILDINGS



IMPROVE
BUILDING EFFICIENCY

How do we get there?

SOLUTIONS: TRANSPORTATION

LESS WASTE



CARPOOL



BUS



BIKE



WALK

How do we get there?

SOLUTIONS: CONSUMPTION

LESS WASTE



USE LESS STUFF



REDUCE FOOD WASTE

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*Eugene City Council
November 23, 2015*

Cost/Benefit Analysis

Measure Number	Measure Group Name	Annual GHG Emissions Reductions, 2022 (MMtCO ₂ e)	Cumulative Annual GHG Reductions, 2022 (MMtCO ₂ e) [X-Axis]	Cumulative Emissions Reductions by Measure from 2013-2022	Net Present Value (Million 2010 \$), 2013-2022	Average Cost Effectiveness, 2013-2022 (\$/tCO ₂ e) [Y-Axis]
TLU-37	LD10 -- Carsharing	0.002	0.002	0.009	-\$8	-\$857
TLU-31	LD4 -- PAYD	0.059	0.061	0.147	-\$124	-\$843
TLU-29	LD2 -- Walk/Bike Short SOV mode shift	0.008	0.069	0.031	-\$22	-\$693
TLU-34	LD7 -- Parking Management	0.035	0.104	0.134	-\$93	-\$693
TLU-25	FR4 -- More Energy Efficient Transporter Operations	0.034	0.138	0.408	-\$195	-\$477
TLU-32	LD5 -- TDM	0.009	0.147	0.031	-\$14	-\$442
AFW-10	Waste Prevention	0.669	0.816	3.512	-\$1,218	-\$347
TLU-35	LD8 -- Externality Taxes	0.012	0.828	0.031	-\$10	-\$309
RCI-73	Commercial Clothes Washer	0.008	0.836	0.036	-\$11	-\$294
TLU-33	LD6 -- EcoDrive	0.037	0.873	0.099	-\$18	-\$185
TLU-8	TL8 -- Land Use	0.056	0.929	0.670	-\$104	-\$156
TLU-24	FR3 -- Idle Reduction Strategies	0.003	0.933	0.041	-\$6	-\$143
RCI-86	Commercial Laundry Equipment--Gas	0.000	0.933	0.000	\$0	-\$142
TLU-22	FR1 -- Land Use Policy Changes	0.003	0.936	0.041	-\$5	-\$133
RCI-123	Industrial Agriculture Irrigation Improvements	0.009	0.945	0.042	-\$5	-\$125
RCI-66	Commercial Exit Signs	0.003	0.948	0.011	-\$1	-\$75
RCI-71	Commercial Ice-Maker Improvements	0.004	0.951	0.015	-\$1	-\$75
RCI-16	Residential Lighting Improvement	0.171	1.122	1.096	-\$82	-\$74
RCI-120	Industrial Lumber Conveyor Replacement	0.007	1.130	0.036	-\$3	-\$73

Oregon Department of Energy 10 year energy action plan modeling
<http://www.oregon.gov/energy/gblwrm/pages/ghg-macc.aspx>

Annual Fuel Consumption for Light-duty Vehicles in 2030

