

# Carbon Reduction in Portland Strategies and Success



City of Portland  
Office of Sustainable Development



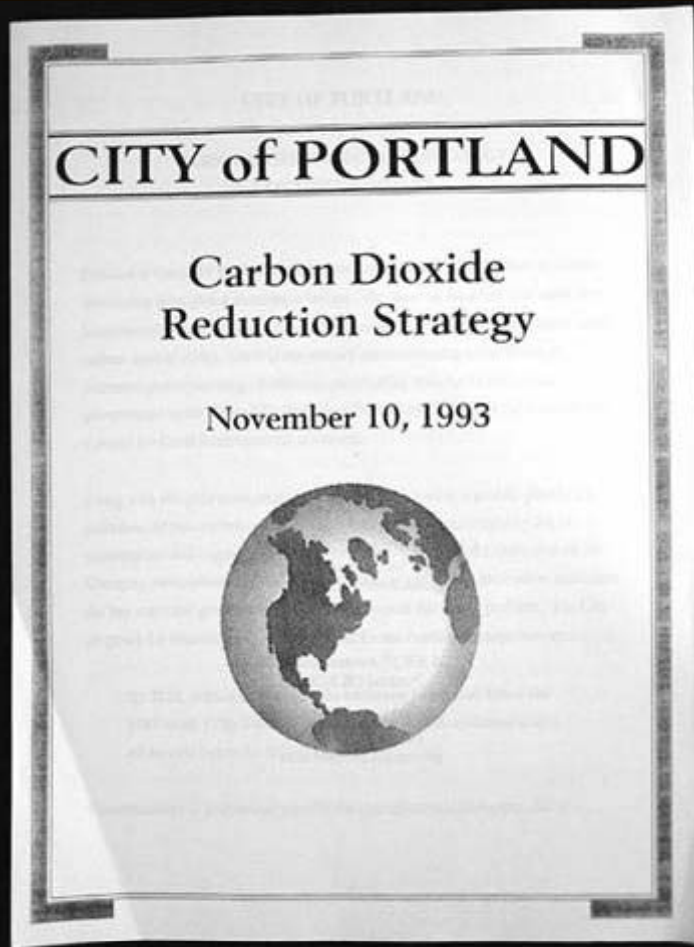
Megan Stein  
City of Portland Office of Sustainable Development

# Portland Profile

We are here!



# 1993 Carbon Dioxide Reduction Strategy



Built on 1979  
Local Energy Plan

Integrated Energy with:

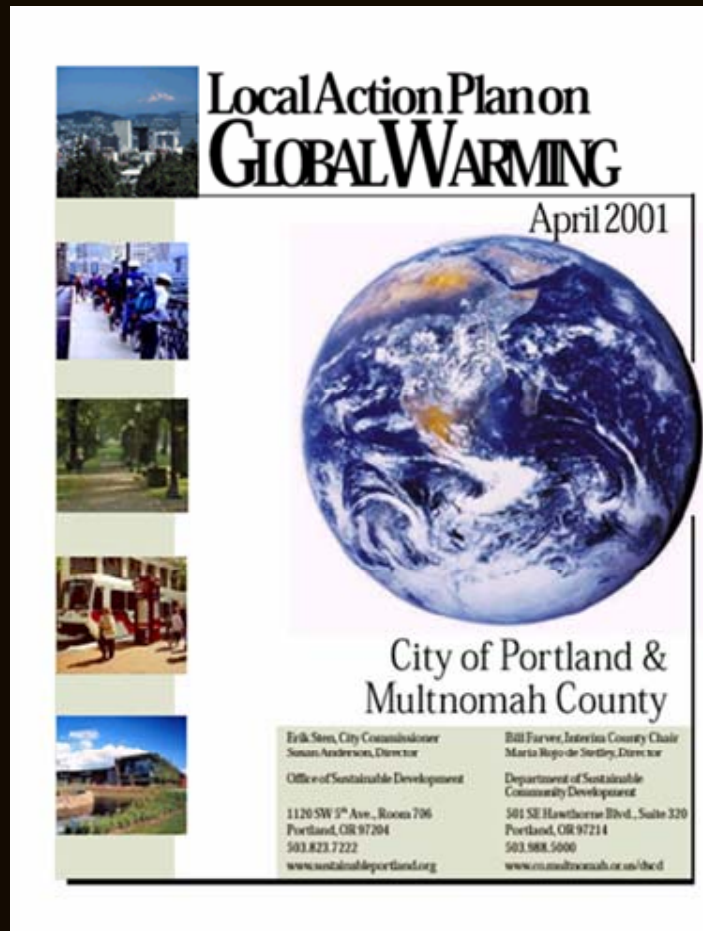
- Housing
- Land Use
- Transportation
- Business





# 2001 Local Action Plan on Global Warming

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## CO<sub>2</sub> Reduction Goal:

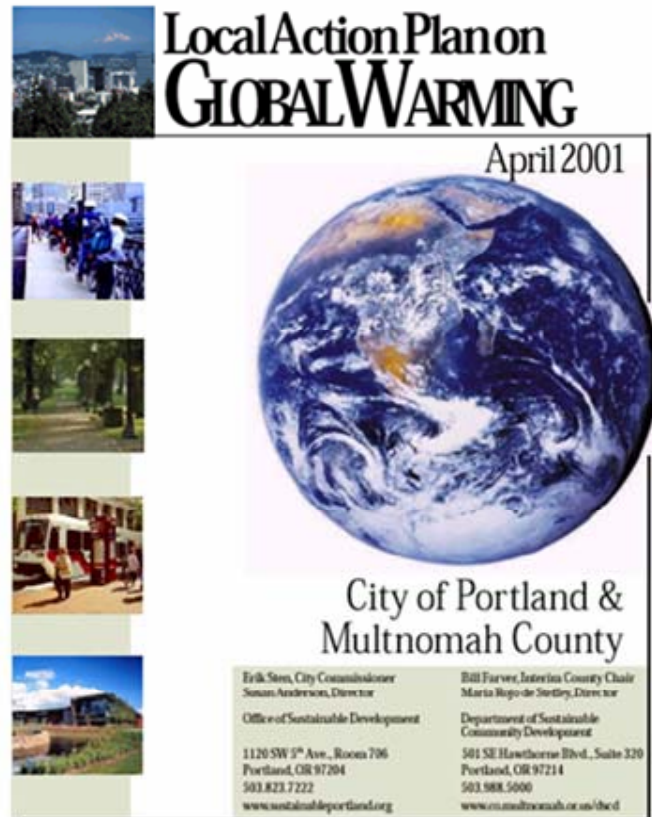
- 10% below 1990 levels by 2010

## Over 100 government actions & community initiatives

- Policy
- Renewable Energy
- Transportation
- Buildings
- Solid Waste
- Forestry

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**Local Action Plan on  
GLOBAL WARMING**  
April 2001

City of Portland &  
Multnomah County

Erik Stein, City Commissioner Susan Anderson, Director	Bill Farver, Multnomah County Chair Maria Rago de Souto, Director
Office of Sustainable Development	Department of Sustainable Community Development
1120 SW 3 <sup>rd</sup> Ave., Room 706 Portland, OR 97204 503.823.7222 <a href="http://www.sustainableportland.org">www.sustainableportland.org</a>	501 SE Hawthorne Blvd., Suite 320 Portland, OR 97214 503.988.5000 <a href="http://www.co.multnomah.or.us/bcd">www.co.multnomah.or.us/bcd</a>

- Energy
- Transportation
- Green Building
- Recycling and Composting

# Energy



**Internal energy efficiency and renewable energy efforts save the City over \$2.7 million annually**

- **Biogas generation, representing \$500,000 annual savings**
- **Solar panels, hydroelectric turbines and a small wind turbine**



# Energy

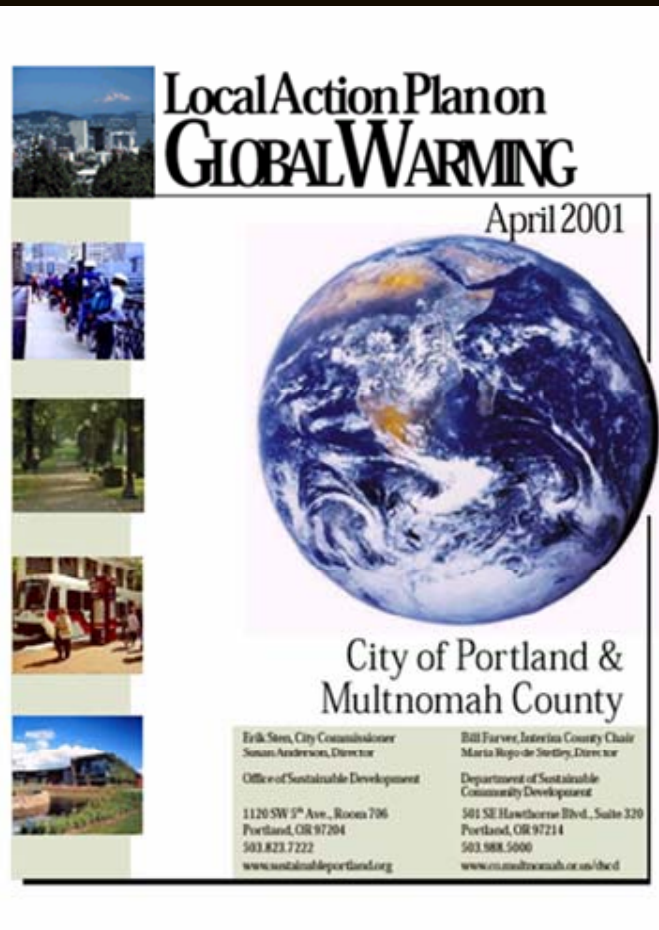


- Portland's operations use 173 million kWh per year
- Roughly \$13 million
- 100% renewable energy for City operations by 2010



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- Energy
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# Transportation

## ➤ Urban Growth Boundary





**INTERSTATE MAX — 2004**



**I-205 MAX — 2008**



**FUTURE MAX CORRIDORS**



**BIKE NETWORK — 1993**



**BIKE NETWORK — 2003**



**BIKE NETWORK — 2016**



# Transportation



- Renewable Fuels Standard
  - All Diesel = 5% Biodiesel
  - All Gasoline = 10% Ethanol
  - 2010 = 10% Biodiesel



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- Energy Use
- Transportation
- Green Building
- Waste Reduction & Recycling



# Green Building



LEED Gold certification required for municipal owned buildings:

- **New construction**
- **Existing buildings and remodels**
- **Special requirements for roofs and re-roof projects**

LEED Silver certification for city funded, private projects



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# Recycling and Composting



- 63% Recovery Rate
- 75% Recovery Goal
- Mandatory recycling for businesses and construction sites
- Mandatory composting for food generators



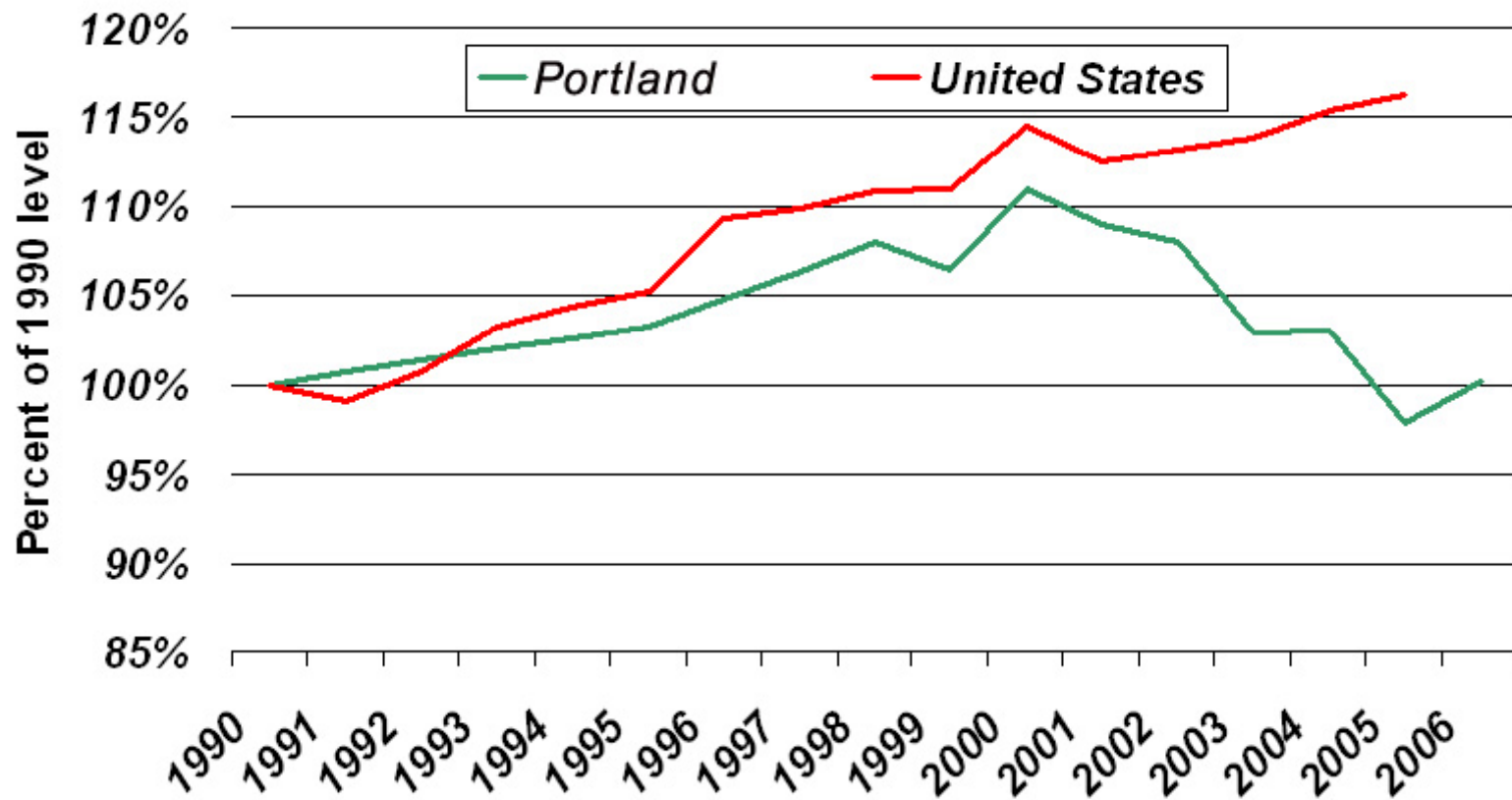


# Accomplishments

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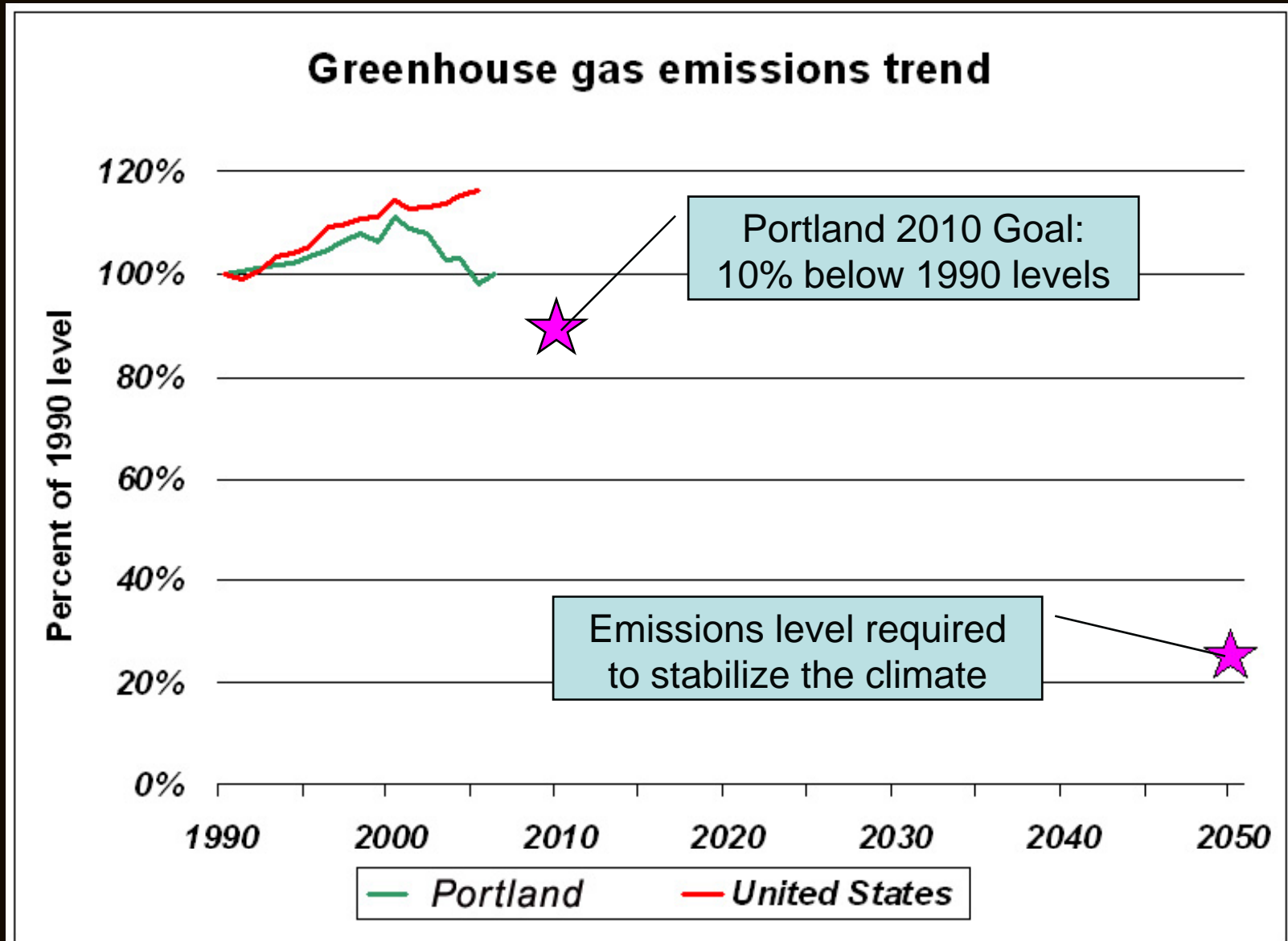


## Greenhouse gas emissions trend



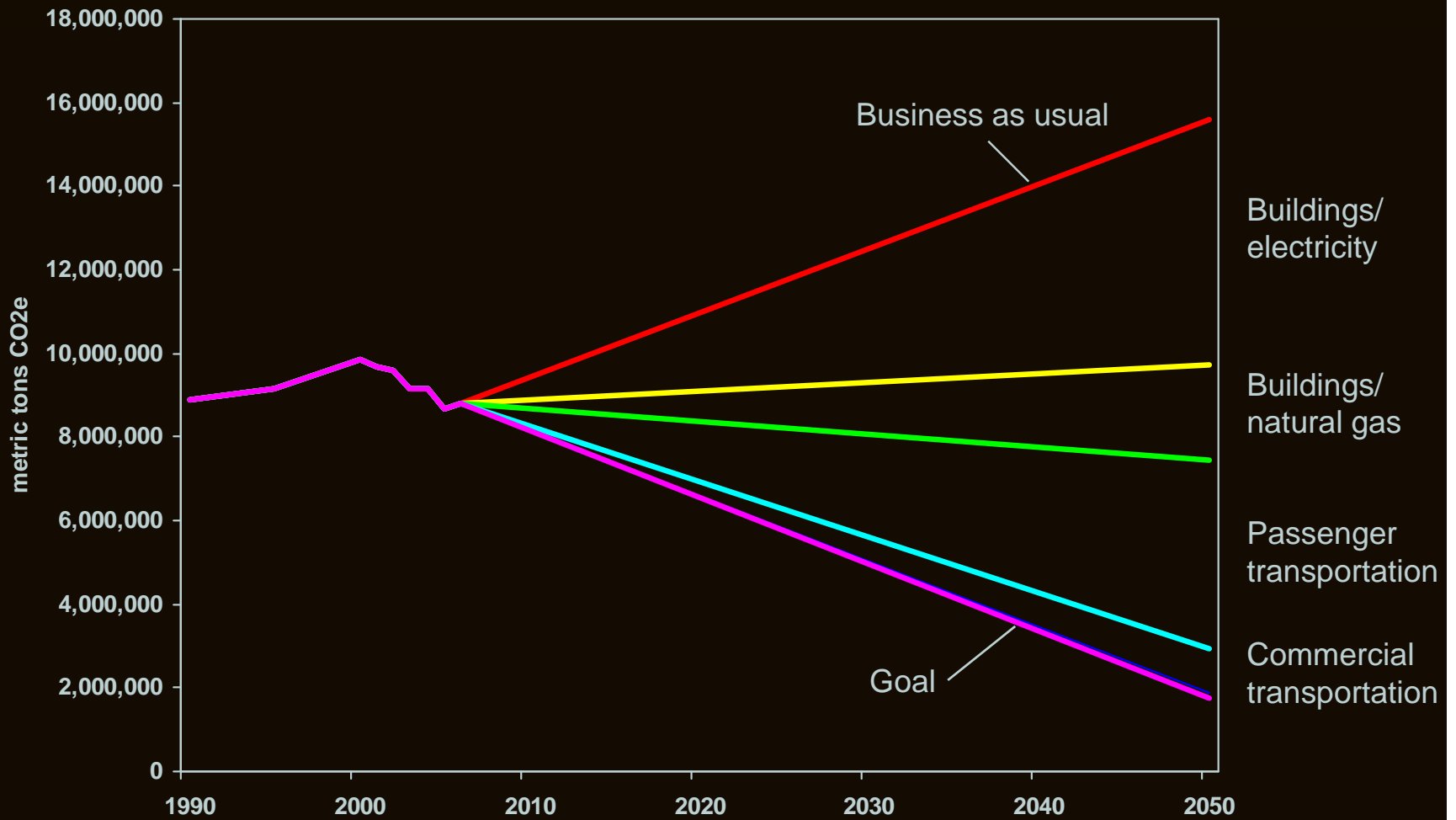


# Achieving the New 2050 Goal



# Achieving the New 2050 Goal

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## Achieving the New 2050 Goal: Possible Strategies

- **Establish an investment fund to leverage private capital to finance comprehensive energy efficiency improvements and clean distributed generation**
- **Require energy performance ratings for residential and commercial buildings at time of sale**
- **Require all evaluations of land use options to include forecasts of greenhouse gas impacts**
- **Make it possible for residents to access key community goods and services within walking distance**

[www.PortlandOnline.com/OSD](http://www.PortlandOnline.com/OSD)



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