

City of Rochester Climate Action Plan

Stakeholder Advisory Committee Workshop 1

January 27, 2016



Engineering Sustainable Change

Agenda

Start Time	Agenda Item
9:00 am	Welcome and Project Overview
9:20 am	Participant Introductions
9:40 am	Current Conditions – Greenhouse Gas Inventory & Forecast, Baseline Snapshot
10:40 am	Break
10:50 am	Climate Vision and Goals
11:10 am	Existing Efforts and New Strategies/Actions
11:50 am	Wrap-Up/Next Steps

City of Rochester

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Project Team – Bergmann Associates



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Project Team – Brendle Group

				
Judy Dorsey	Becky Fedak	Patrick Flynn	Jonathan Woodworth	Shelby Sommer
Executive Project Manager	Project Manger	Sustainability Analyst	Engineer	Planner
<ul style="list-style-type: none">• Project Oversight• Innovation and Best Practices	<ul style="list-style-type: none">• Primary Contact• Project and Team Oversight	<ul style="list-style-type: none">• GHG Inventory Lead• Strategy Analysis	<ul style="list-style-type: none">• GHG Inventory Support• Analysis Support	<ul style="list-style-type: none">• Stakeholder Engagement• Plan Development

Introductions

• Name

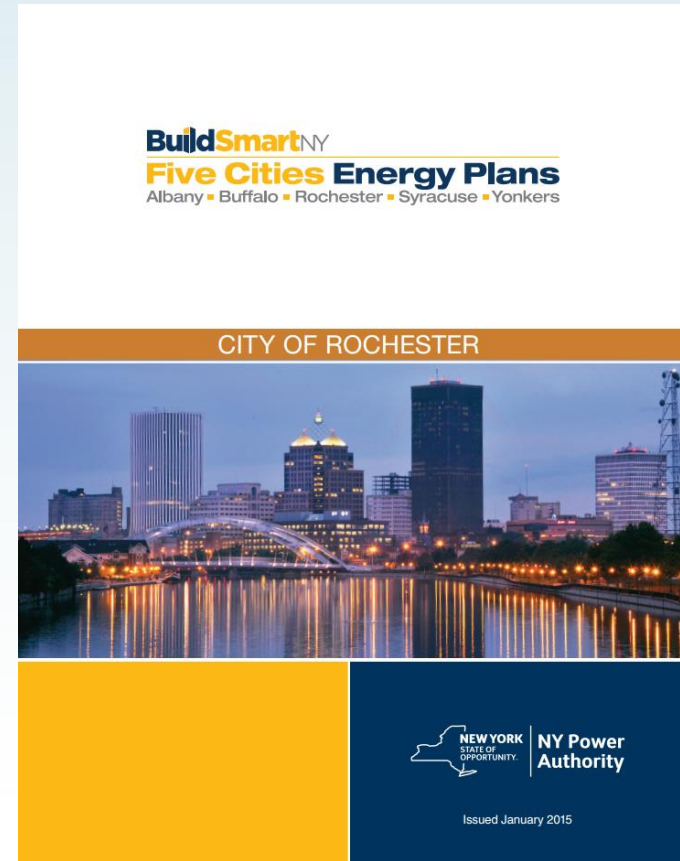
• Affiliation



Role of the Stakeholder Advisory Committee

- Provide your expertise and knowledge of sustainability initiatives in the Rochester region
- Participate in three workshops (January, March/April, May/June)
- Looping Approach – will introduce/preview the upcoming topic in the current meeting
 - **Topic 1: Baseline and Goal Setting**
 - **Topic 2: Strategy Identification and Analysis**
 - **Topic 3: Plan Implementation**

Past Plans and Related Efforts



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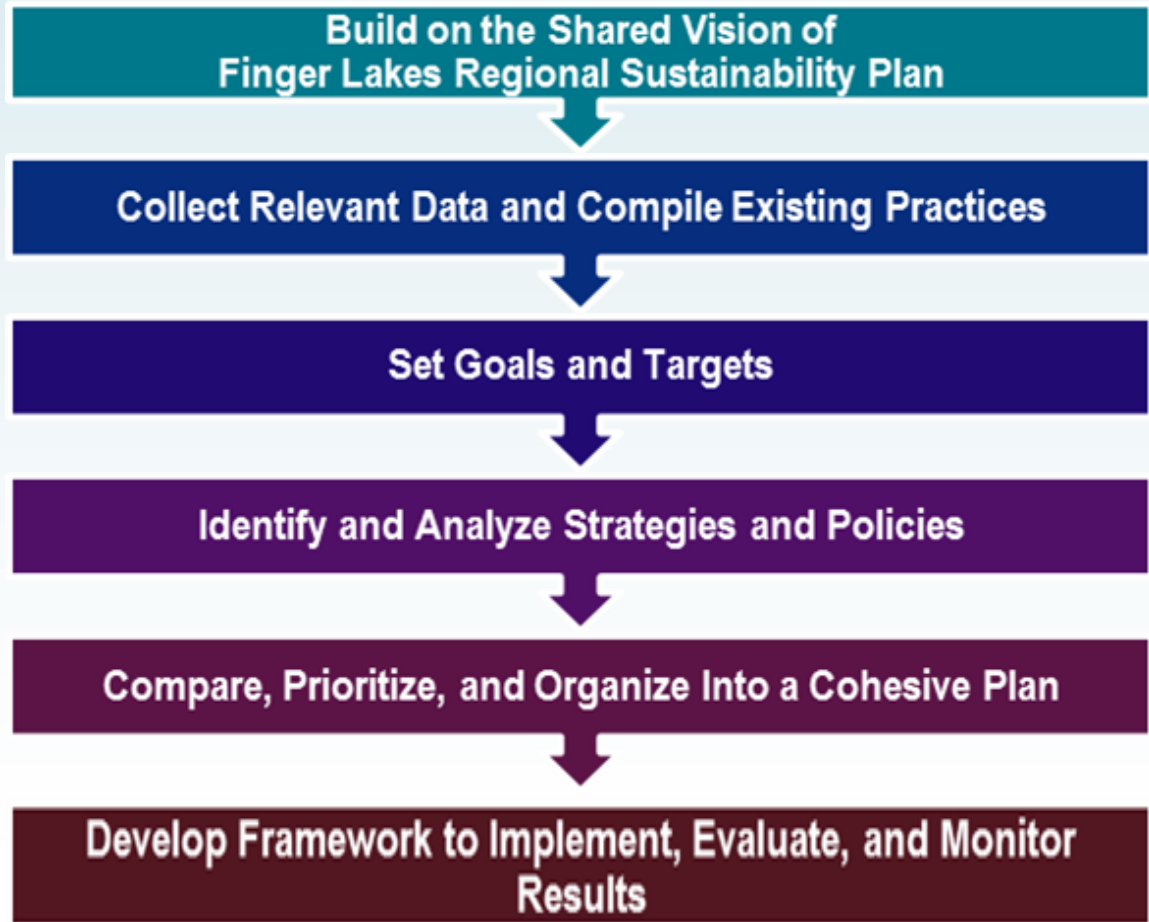
Past Plans and Related Efforts

- Mayor's Climate Protection Agreement – 2007
- Council Resolution in Support of Environment and Climate Protection 2009
- NYSDEC Climate Smart Communities Program - 2010
- US DOE Better Buildings Challenge – 2012
- Municipal Climate Action Plan – 2012
- City of Rochester Energy Master Plan – 2015
- Compact of Mayors 2015
- City of Rochester Comprehensive Plan update – ongoing
- Community-Wide Climate Action Plan – why we're here today

Project Scope

Objective:

To develop a City of Rochester Climate Action Plan that sets greenhouse gas emissions target reduction goals and identifies actions to achieve those goals.



Project Scope

• The Climate Action Plan will:

- Continue to spur economic growth while decreasing greenhouse gas emissions
- Address mitigation and adaptation
- Take the City to the next level with an integrated and more detailed approach to sustainability and climate action planning
- Prioritize actions that are most cost effective and provide a balanced mix enhancing quality of life
- Build consensus and momentum
- Tailor national best practices to the City's challenges and potential

Project Schedule

Task	2015				2016							
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1.0 Project Kick-off, GHG Inventory, Baseline Snapshot												
1.1 Project Kick-off (Internal Team)												
1.2 Community GHG Inventory												
1.3 Baseline Snapshot												
2.0 Develop Goals, Actions, and Strategies												
2.2 Select Target GHG Reduction Goals												
2.3 Identify and Analyze Actions												
2.4 Develop Summary Report												
3.0 Draft City of Rochester Climate Action Plan												
4.0 Final City of Rochester Climate Action Plan												
5.0 Required NYSERDA Final Project Report												



Stakeholder Advisory
Committee Workshops



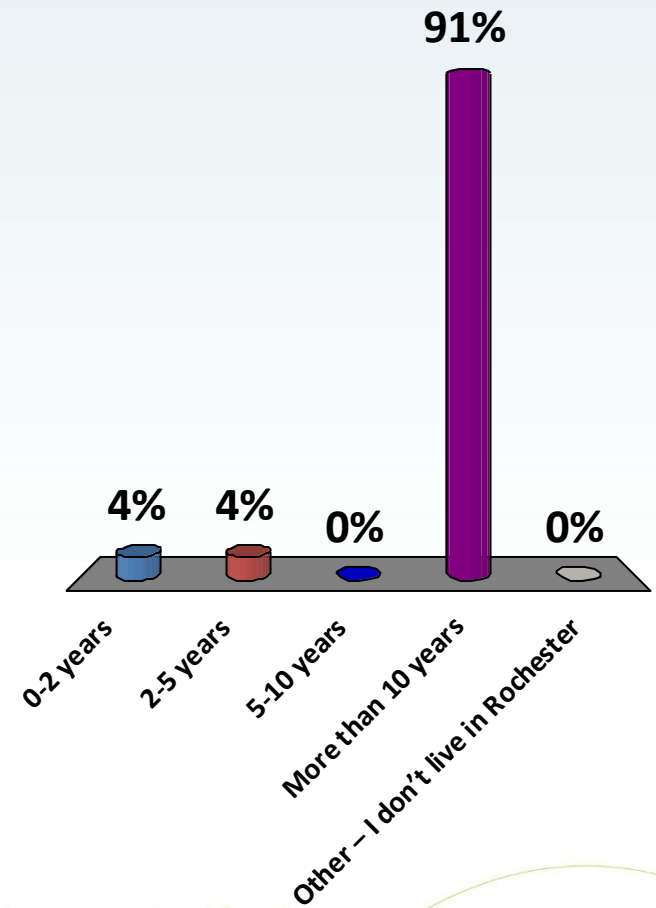
Planning Commission &
City Council Updates



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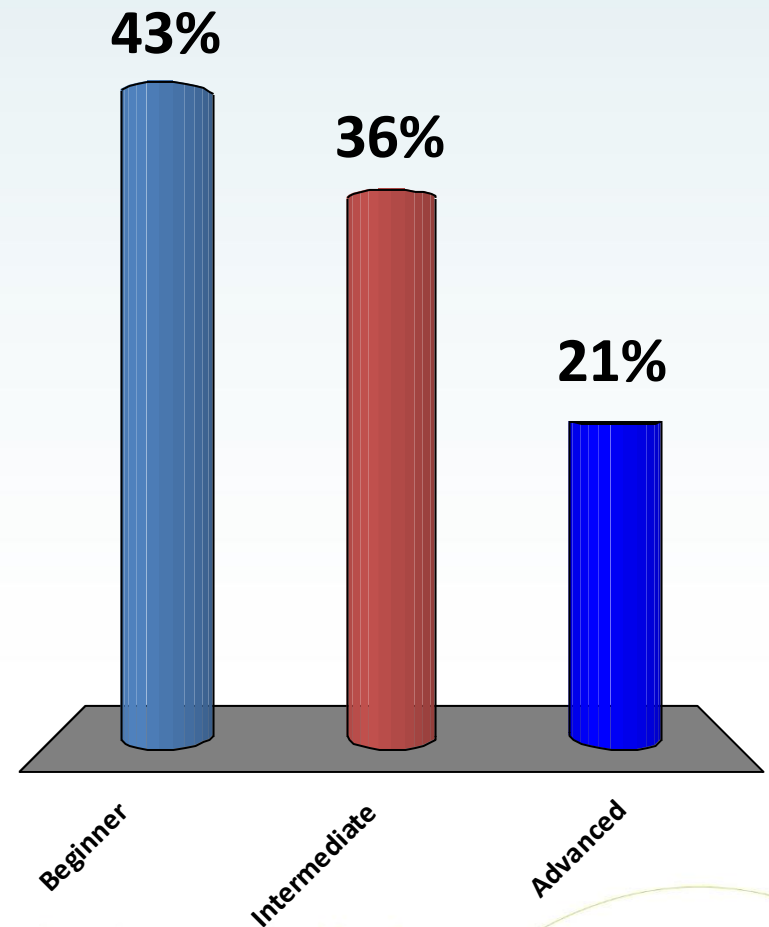
How long have you lived in Rochester?

- A. 0-2 years
- B. 2-5 years
- C. 5-10 years
- D. More than 10 years
- E. Other – I don't live in Rochester



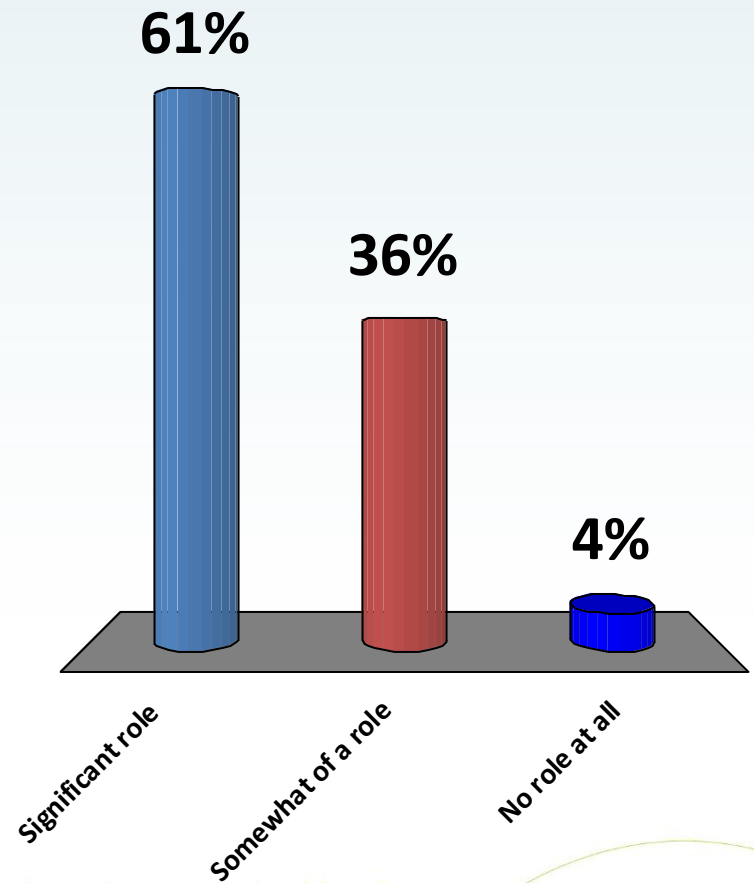
How would you rate your own climate planning knowledge/level of experience?

- A. Beginner
- B. Intermediate
- C. Advanced



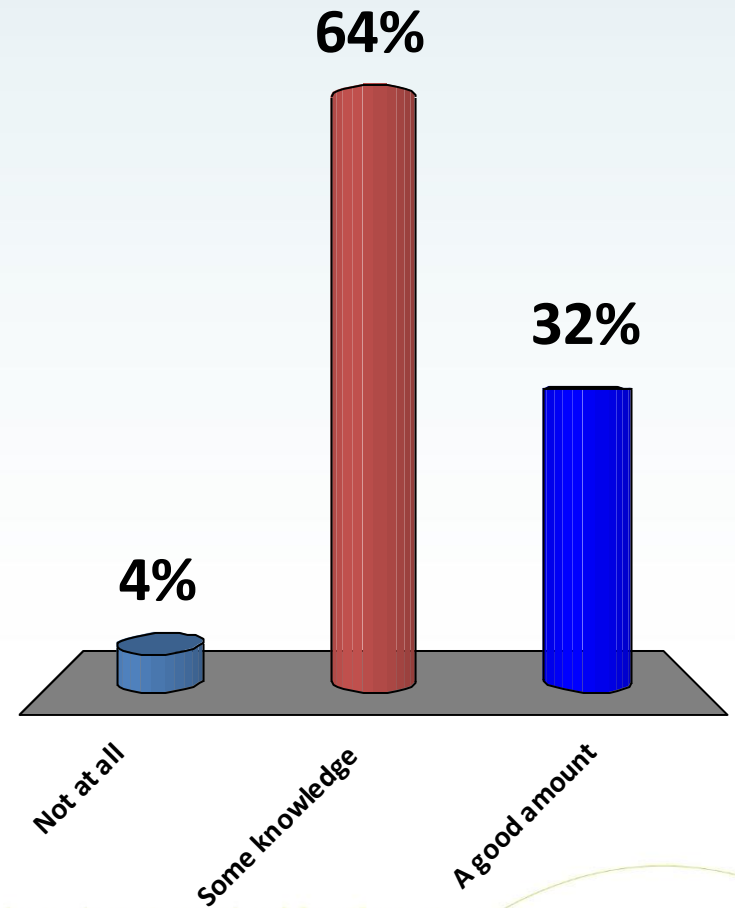
How big of a role do sustainability and/or climate issues play in your work?

- A. Significant role
- B. Somewhat of a role
- C. No role at all



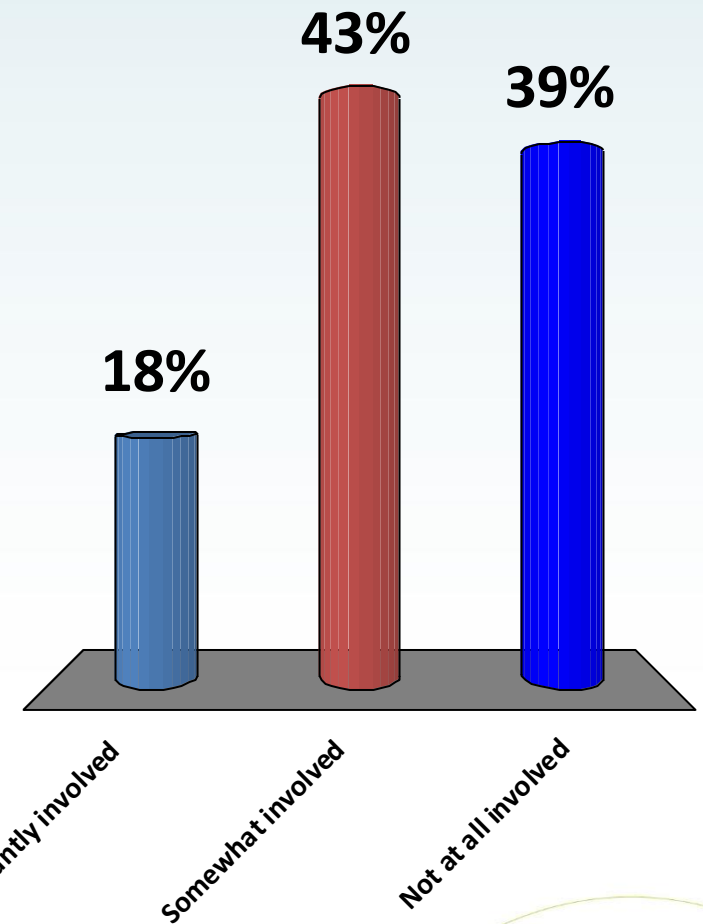
How familiar are you with existing sustainability and climate efforts in Rochester and the region?

- A. Not at all
- B. Some knowledge
- C. A good amount



How involved have you been in past sustainability and/or climate efforts in the region?

- A. Significantly involved
- B. Somewhat involved
- C. Not at all involved





CURRENT CONDITIONS

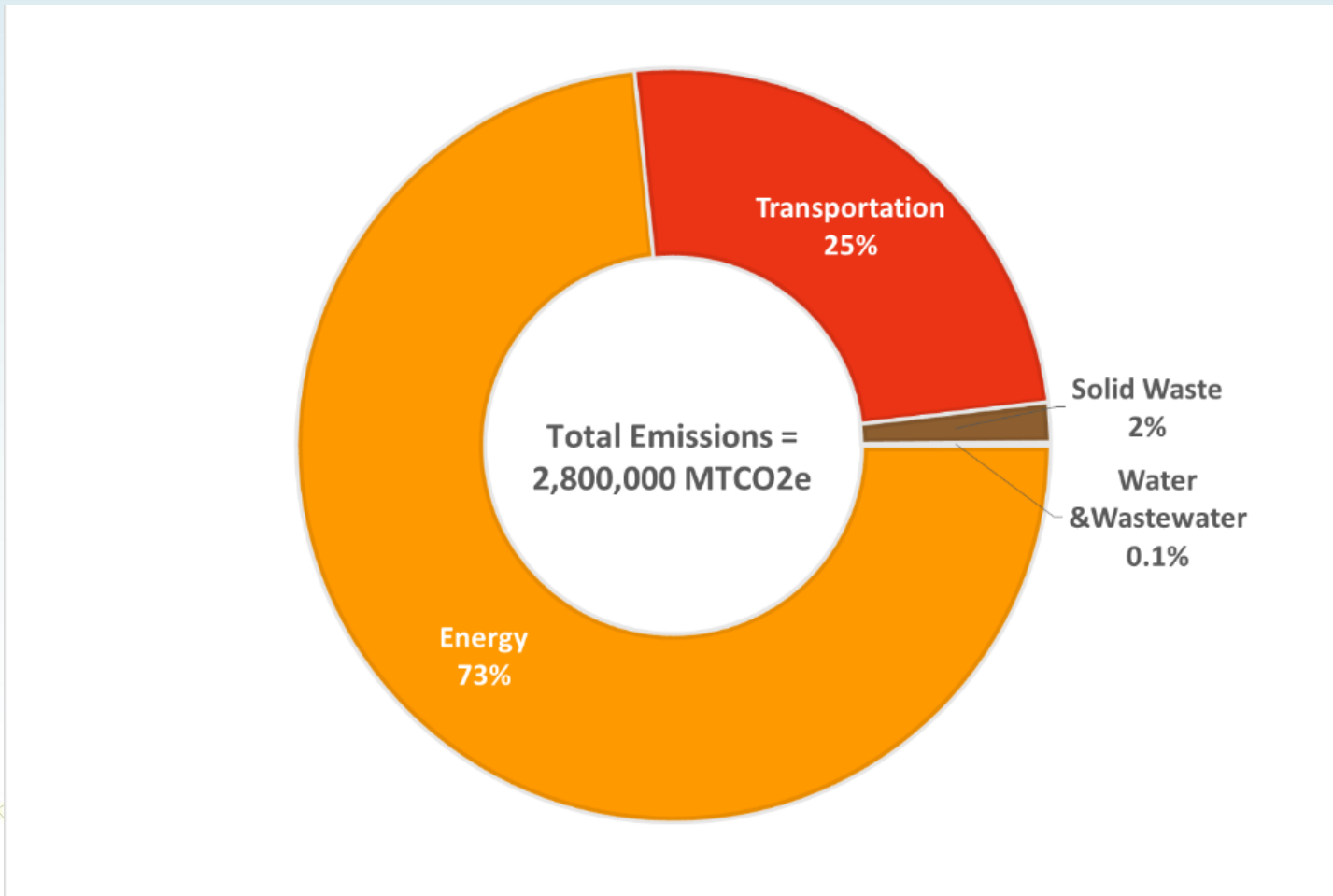
GHG Inventory Approach

- ICLEI U.S. Community Protocol
- Excel-based Carbon Management and Planning System
- **Past Inventories:** 2015 Energy Master Plan; 2011 GHG Inventory
- **3 primary greenhouse gases:** CO₂, CH₄, N₂O

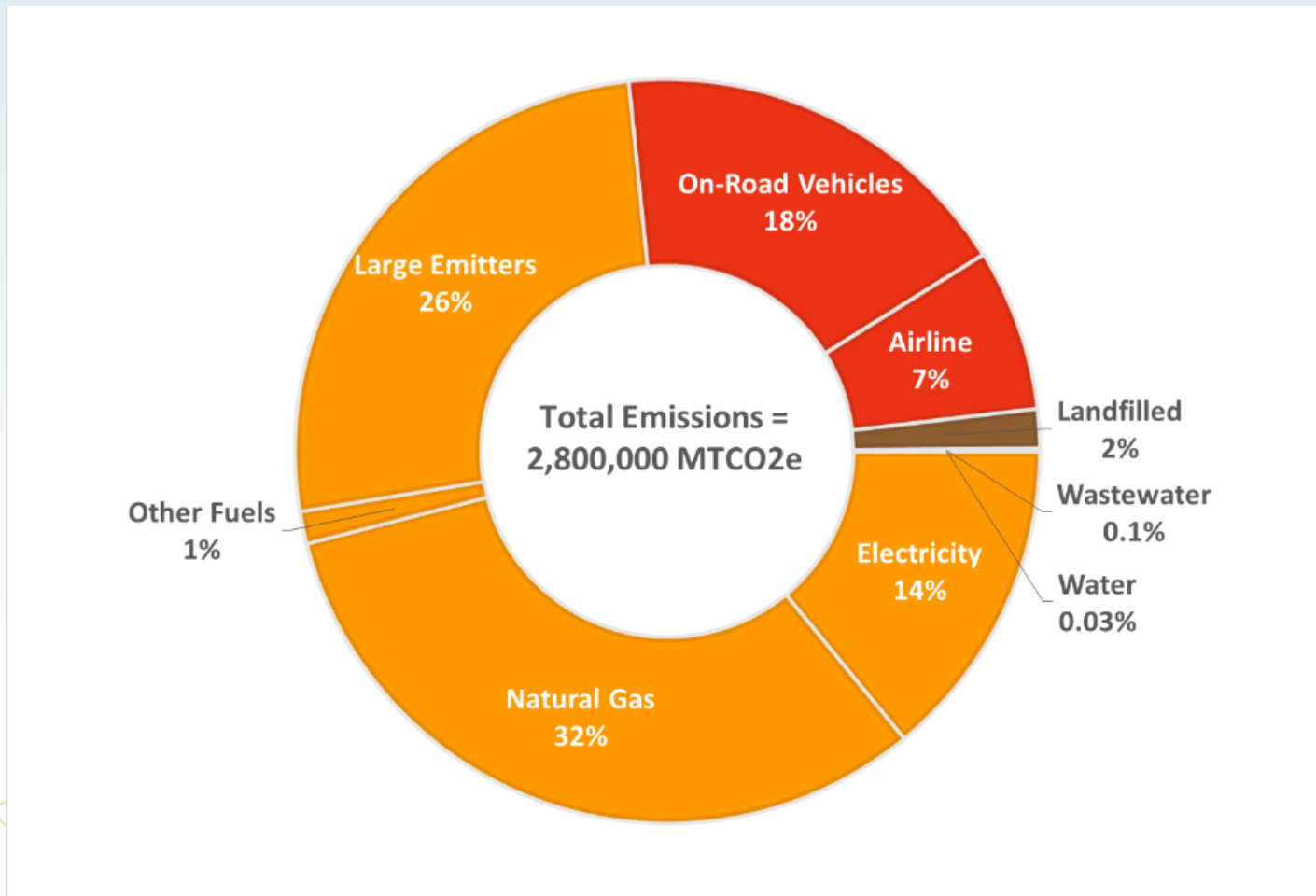
Emission Categories for 2014:

Source	Source/Activity
Energy	
Electricity	Activity
Natural Gas	Source and Activity
Industrial Processes	Source
Other Fuels	Source and Activity
Transportation	
On-road Transportation	Source
Airline Travel	Activity
Other	
Solid Waste	Activity
Wastewater	Activity
Water	Activity

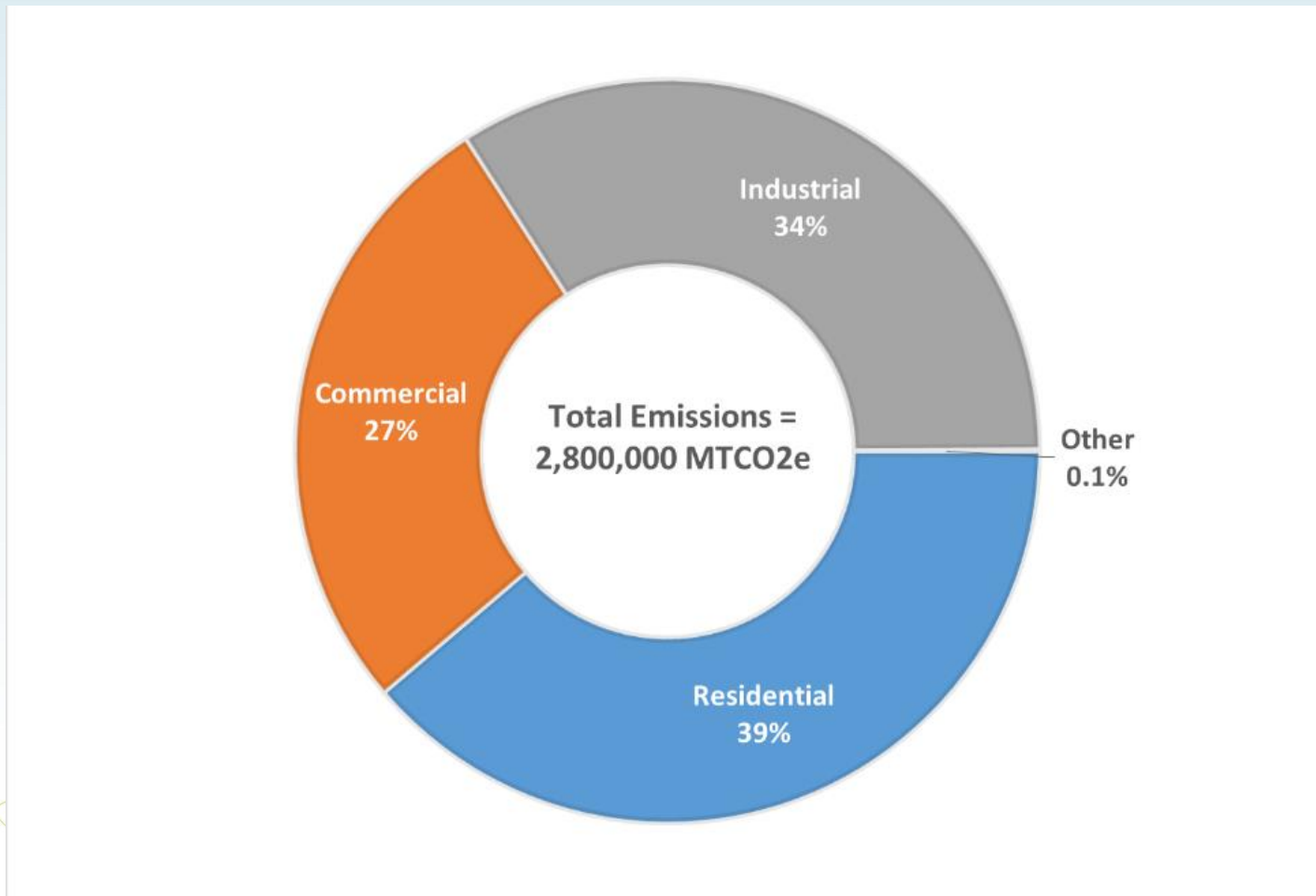
2014 Emissions by Focus Area



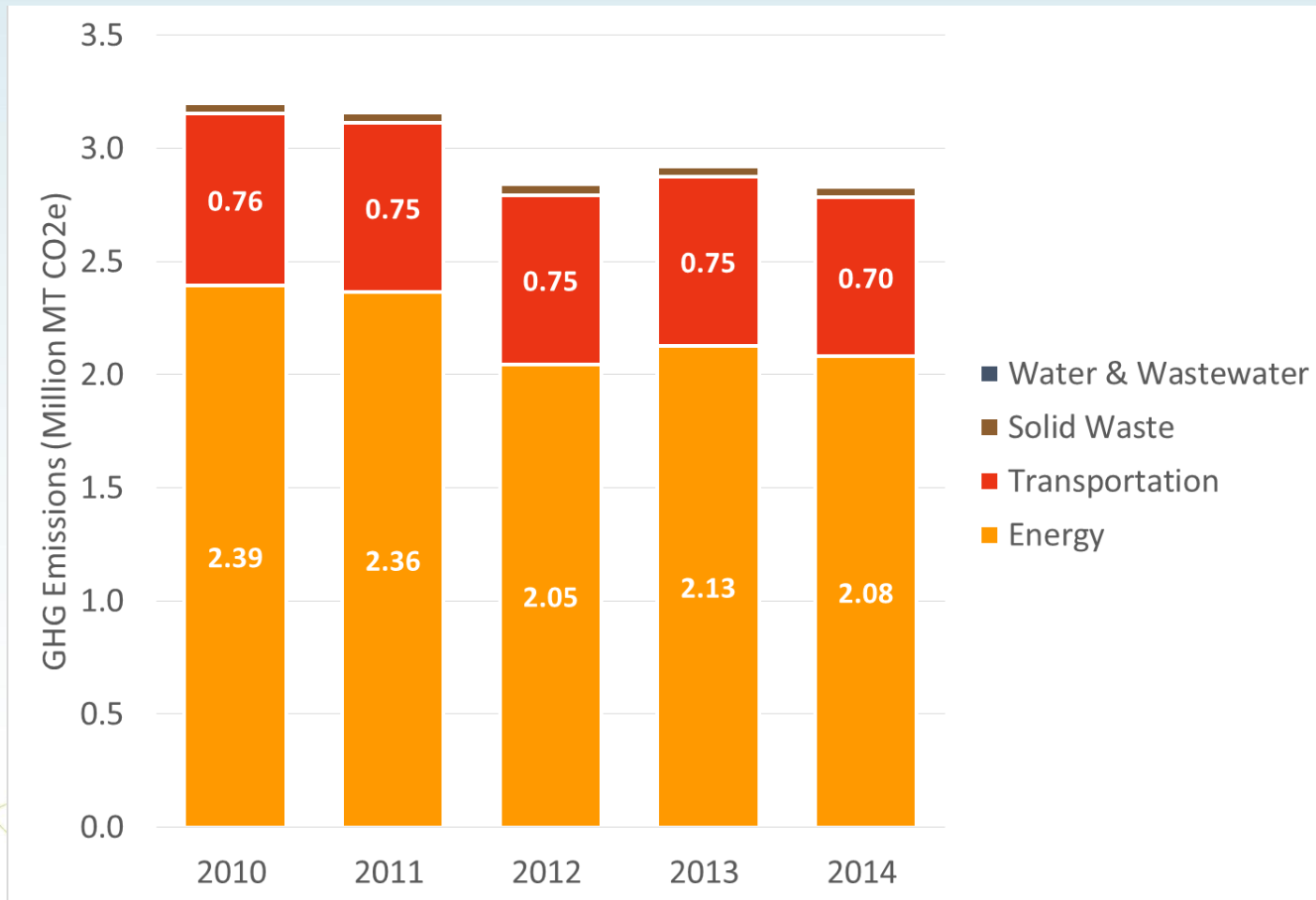
2014 Emissions by Source



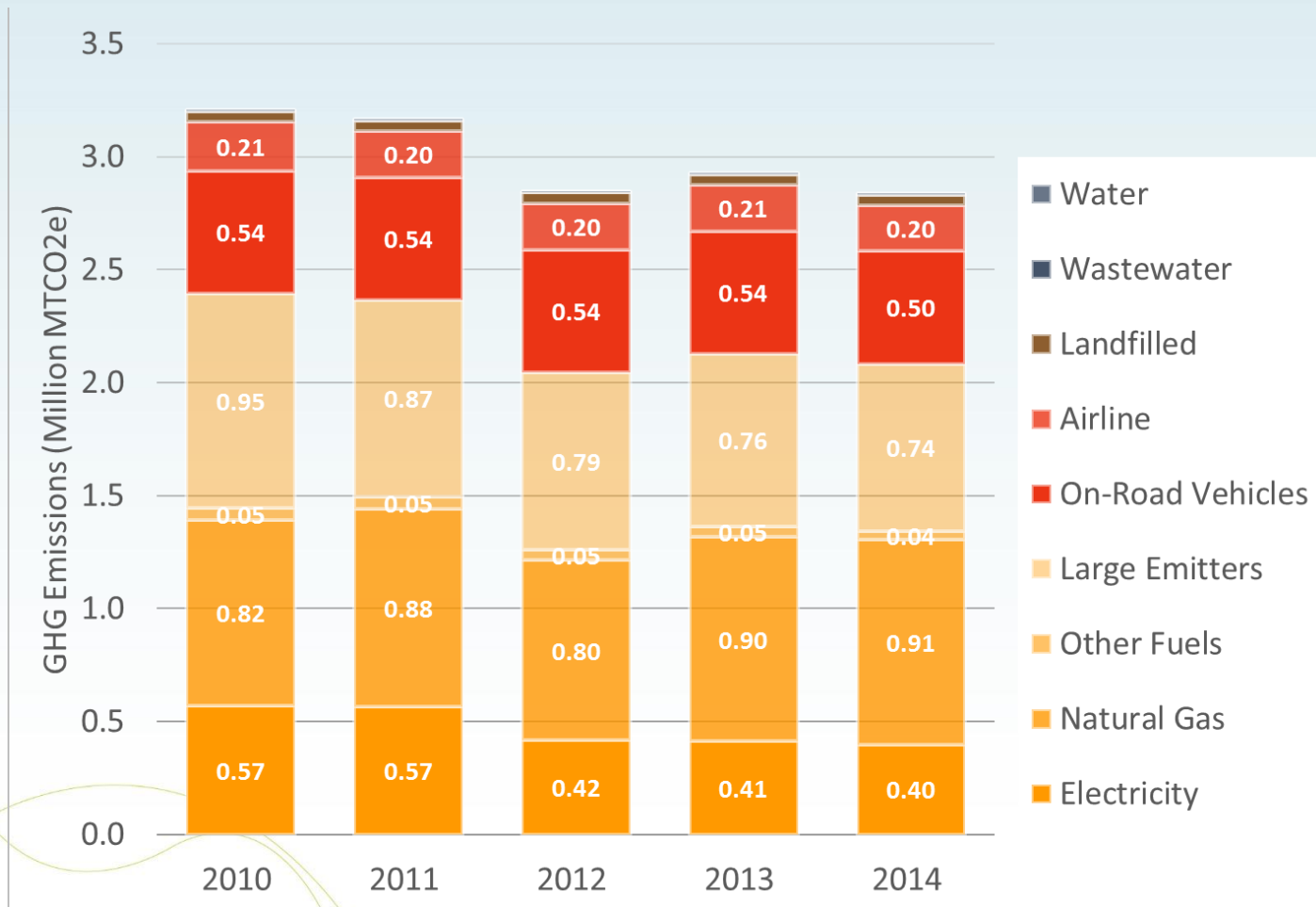
2014 Emissions by Sector



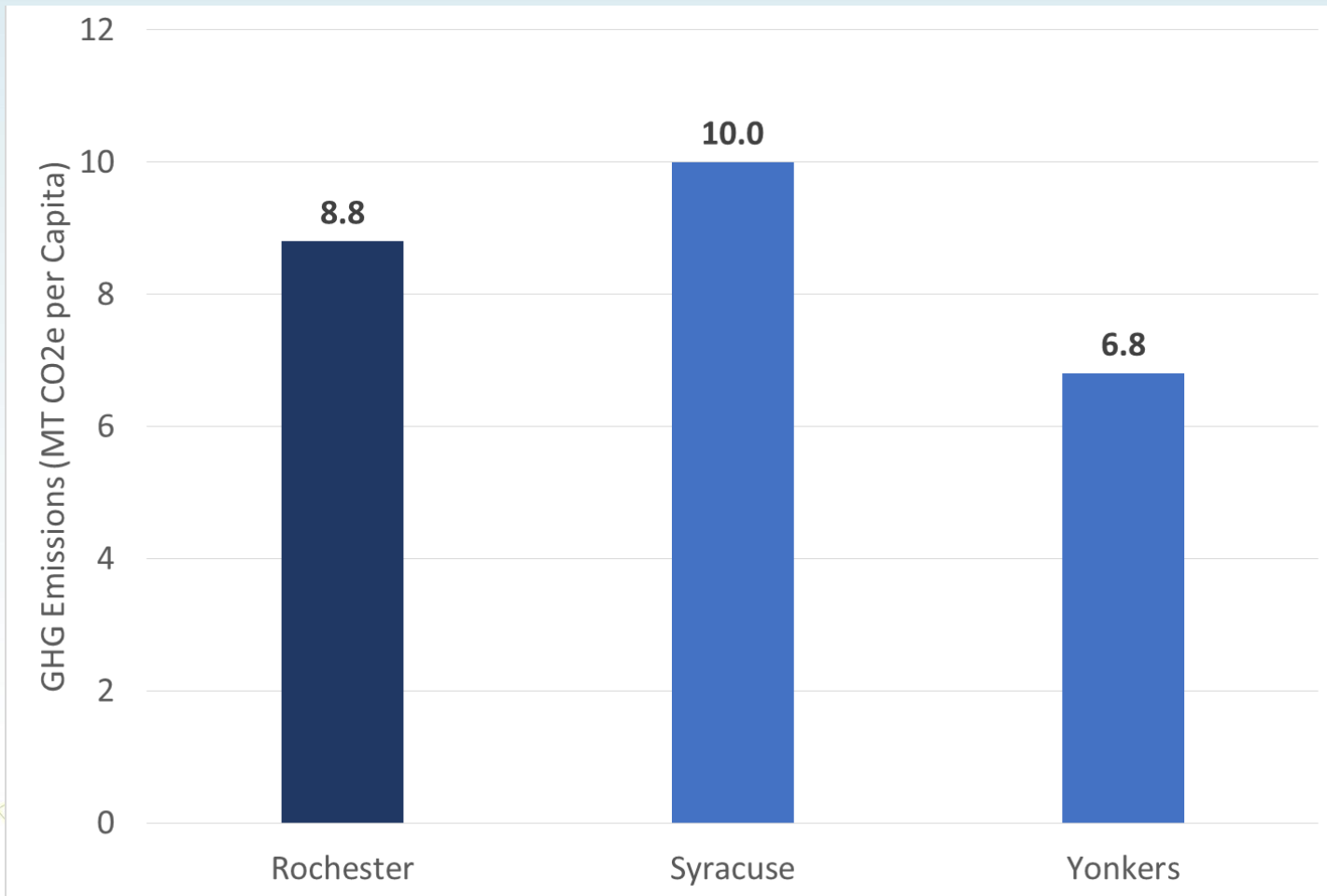
Emissions Trend by Focus Area



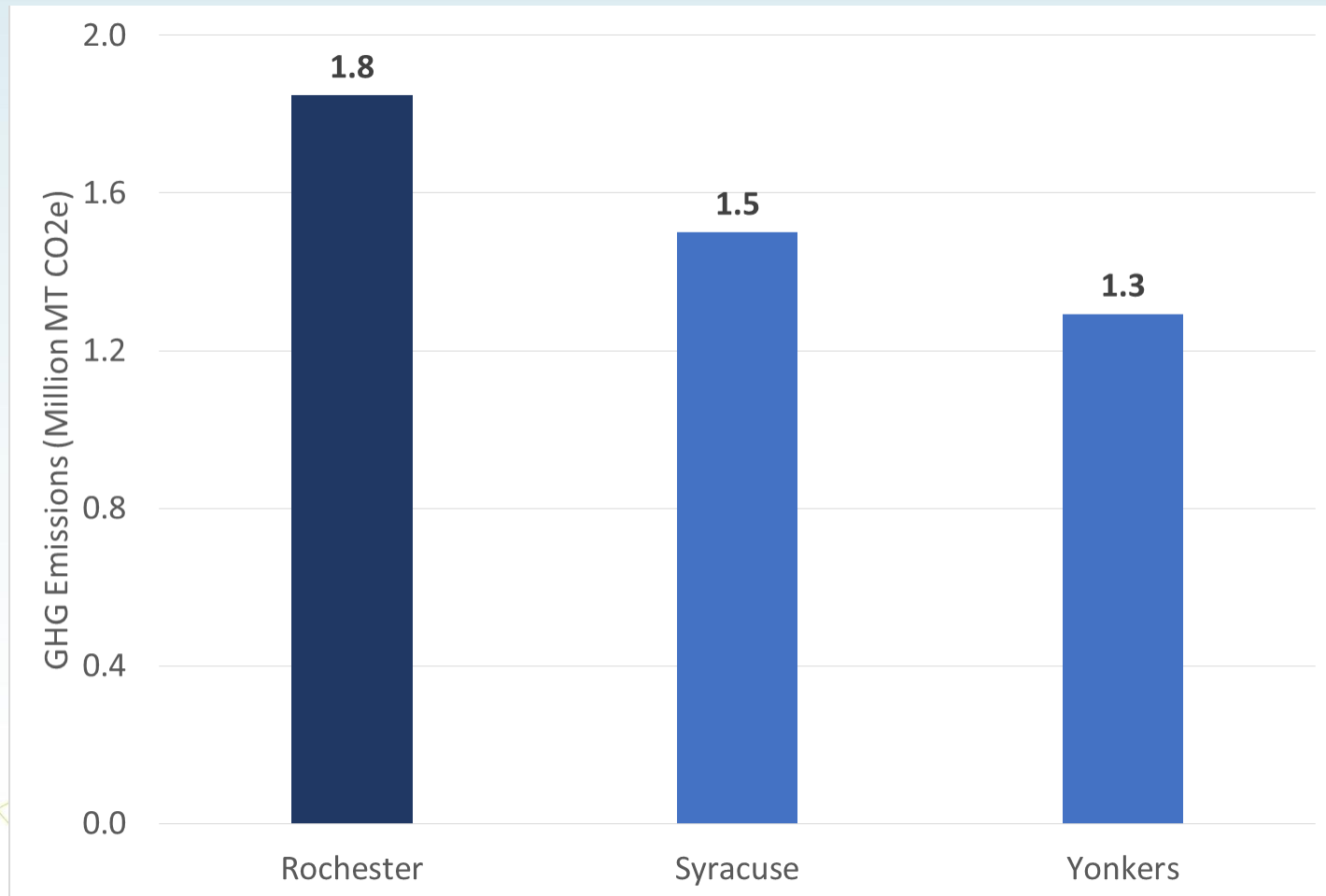
Emissions Trend by Source



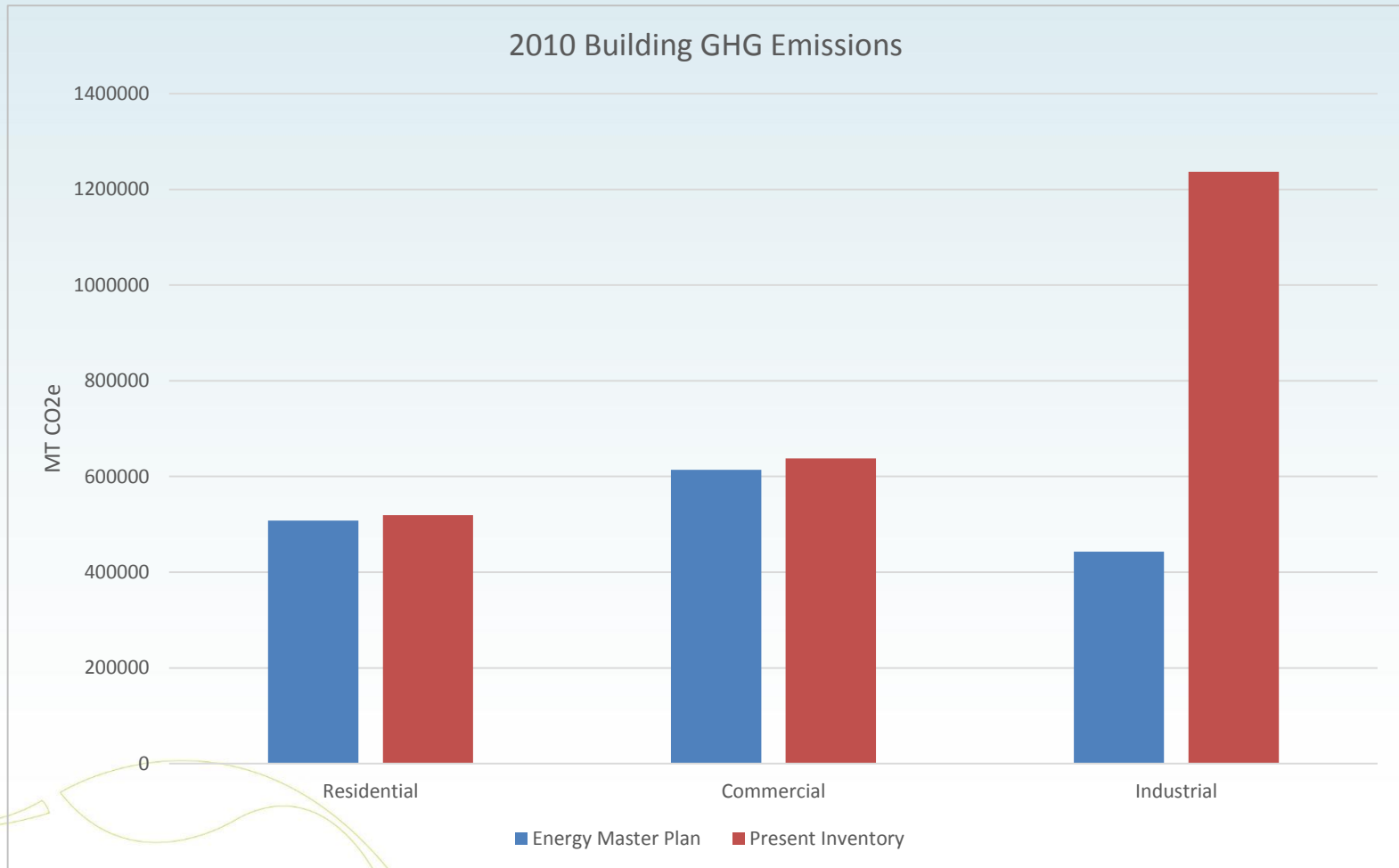
Benchmarking: Emissions per Capita



Benchmarking: Total Emissions



Comparison to Energy Master Plan



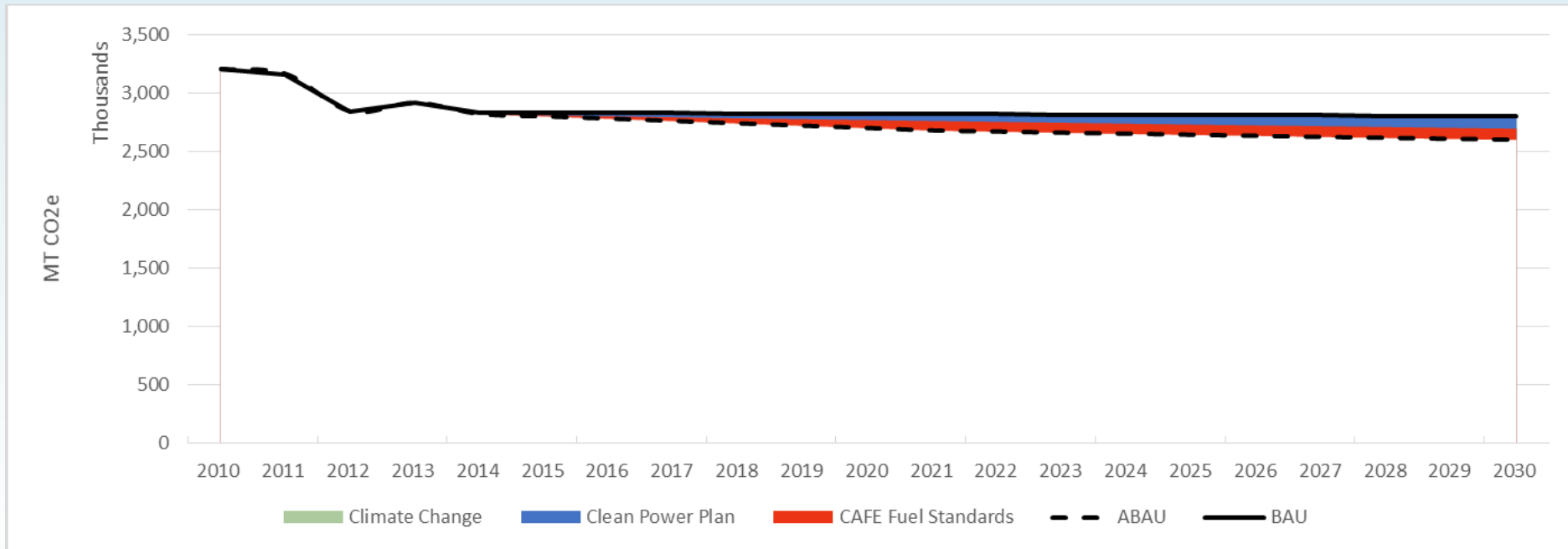
Outstanding GHG Inventory Action Items

1. Electricity emissions factor and transmission/distribution loss percentages
2. Clarification of natural gas data - transport gas accounts included
3. Additional benchmark communities
4. Airport passenger survey data
5. Commercial solid waste data
6. Water deliveries by sector (residential, commercial, industrial)

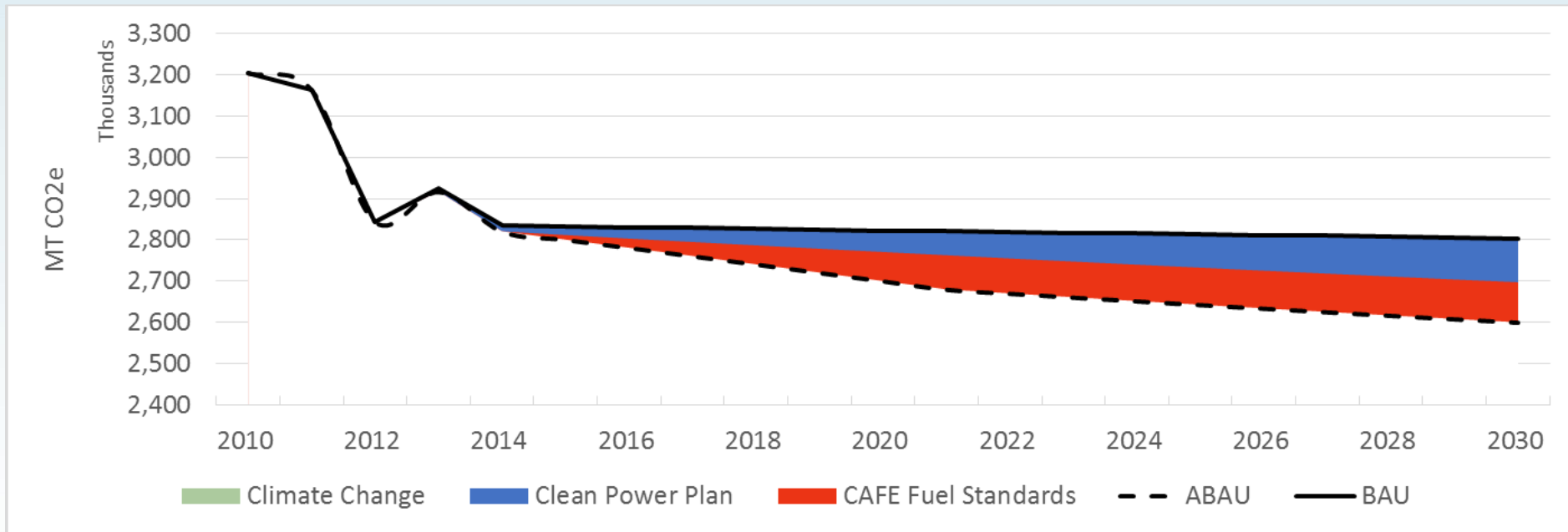
Questions from Group?



Business-As-Usual Forecast



Business-As-Usual Forecast



Vulnerability Matrix Breakout Groups

- DRAFT Vulnerability Matrix – see handout
- Focus Areas - Select the topic that best applies to you
 - Clean Water
 - Community Health and Wellness
 - Energy Use and Supply
 - Land Use
 - Transportation
 - Waste and Materials Management
- Questions to Consider
 - What exposures are missing?
 - What revisions to sensitivity and adaptive capacity need to be made?

What key words would you use to describe a sustainable/climate ready Rochester?

BREAK



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CLIMATE VISION AND GOALS

Rochester's Climate Vision

- Why develop a vision?
- Rapid fire question:

What does a sustainable and climate-ready
Rochester look like in 2050?

Climate Action Plan Focus Areas

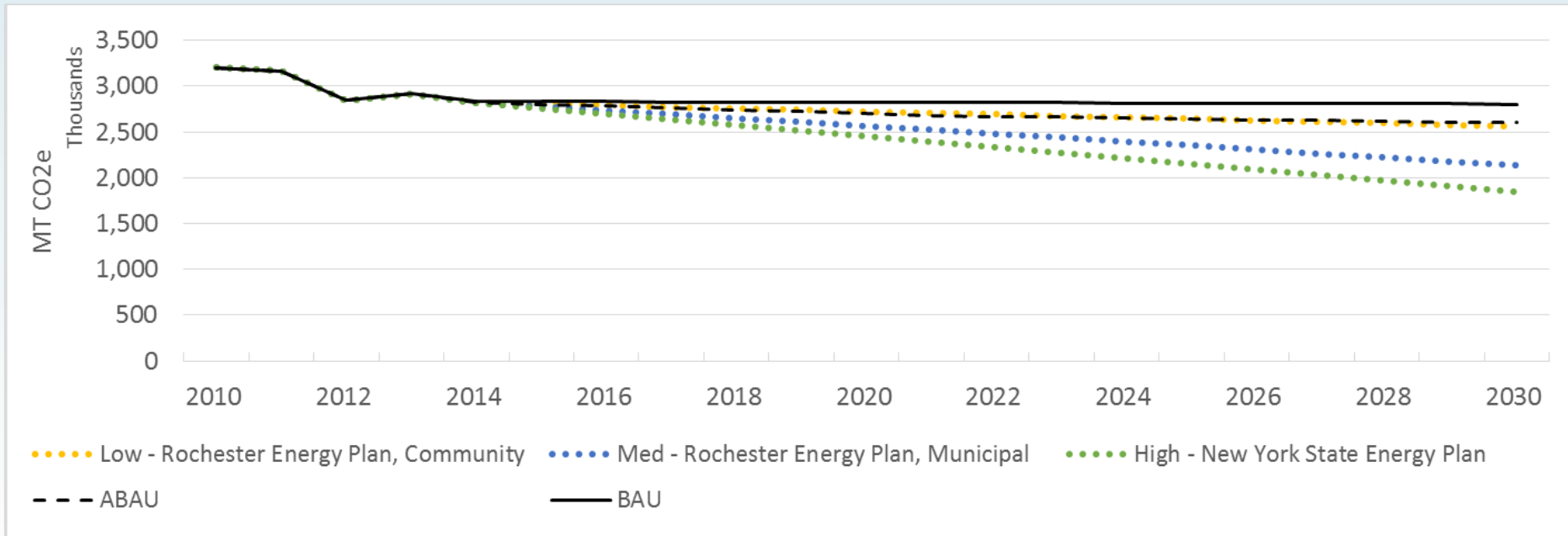
Current Proposed Focus Areas

- Clean Water
- Community Health and Wellness
- Energy Use and Supply
- Land Use
- Transportation
- Waste and Materials Management

Are the focus areas appropriate?

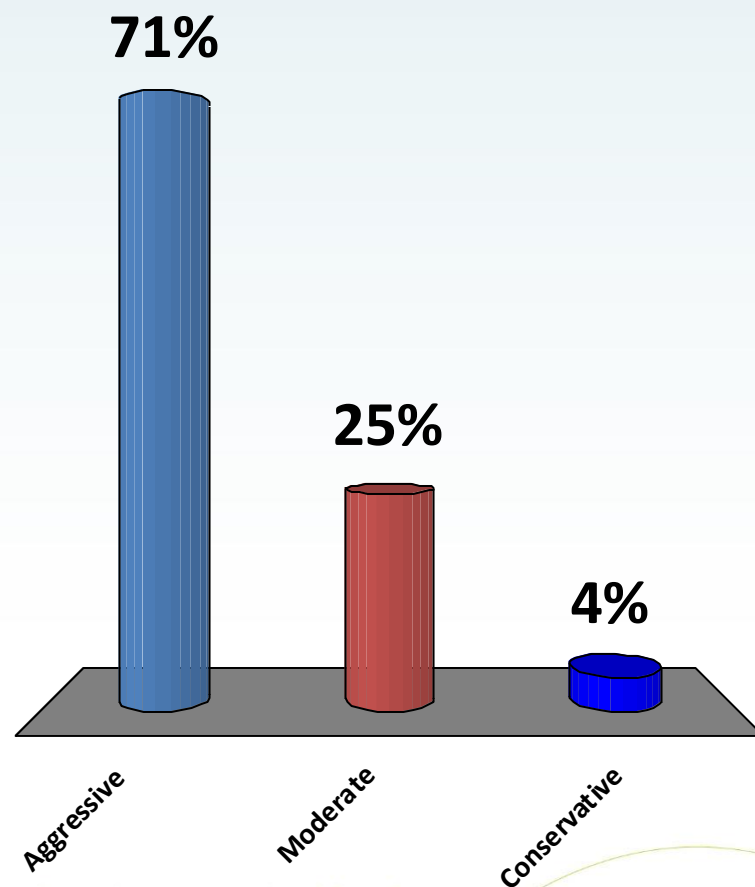
What themes need to be considered in the plan?

Sample Climate Goals



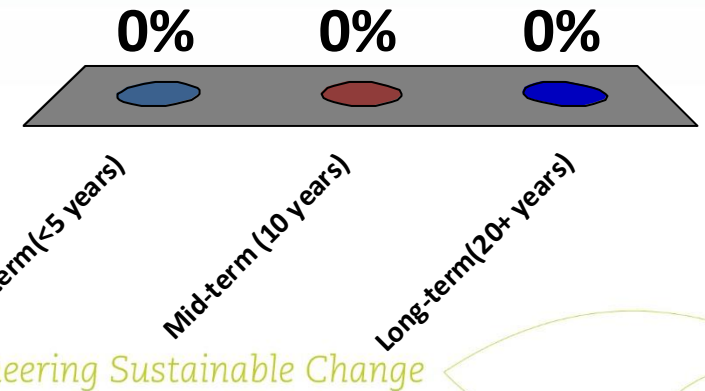
How aggressive should Rochester be with our climate action?

- A. Aggressive
- B. Moderate
- C. Conservative



What planning horizon should this plan target?

- A. Short-term (<5 years)
- B. Mid-term (10 years)
- C. Long-term (20+ years)





EXISTING EFFORTS AND NEW STRATEGIES/ACTIONS

Strategy/Action Breakout Groups

➤ Pick your top three focus areas

- Clean Water
- Community Health and Wellness
- Energy Use and Supply
- Land Use
- Transportation
- Waste and Materials Management

➤ Rotate between your three picks every 10 minutes

➤ Questions to Consider

- What is the community already doing to address climate mitigation and adaptation in this focus area?
- Where are there gaps that need to be filled with new strategies?
- What strategies/actions should be prioritized?

Wrap-Up/Next Steps

- We will take input from this workshop to refine the baseline condition analysis, refine goals, and begin analyzing strategies
- Workshop 2 (targeting March/April) will focus on strategies, sharing preliminary analysis results, and begin the conversation of plan implementation

Any parting thoughts?

THANK YOU!!



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