

Minneapolis Climate Action Plan



Steering Committee

September 13, 2012 | Meeting 1

Agenda

- 9:00 – 9:05** **Welcome – *Council Member Elizabeth Glidden***
- 9:05 – 9:20** **Introductions**
- 9:20 – 9:45** **Goals, desired outcomes, and process overview**
- 9:45 – 9:50** **Greenhouse gas emissions inventory**
- 9:50 – 10:15** **Working group goals & strategies:**
Overview and impact
- 10:15 – 10:45** **Facilitated discussion:**
Overarching plan goals
- 10:45 – 11:15** **Facilitated discussion:**
Public outreach process
- 11:15 – 11:30** **Next steps**



Minneapolis Climate Action Plan

INTRODUCTIONS



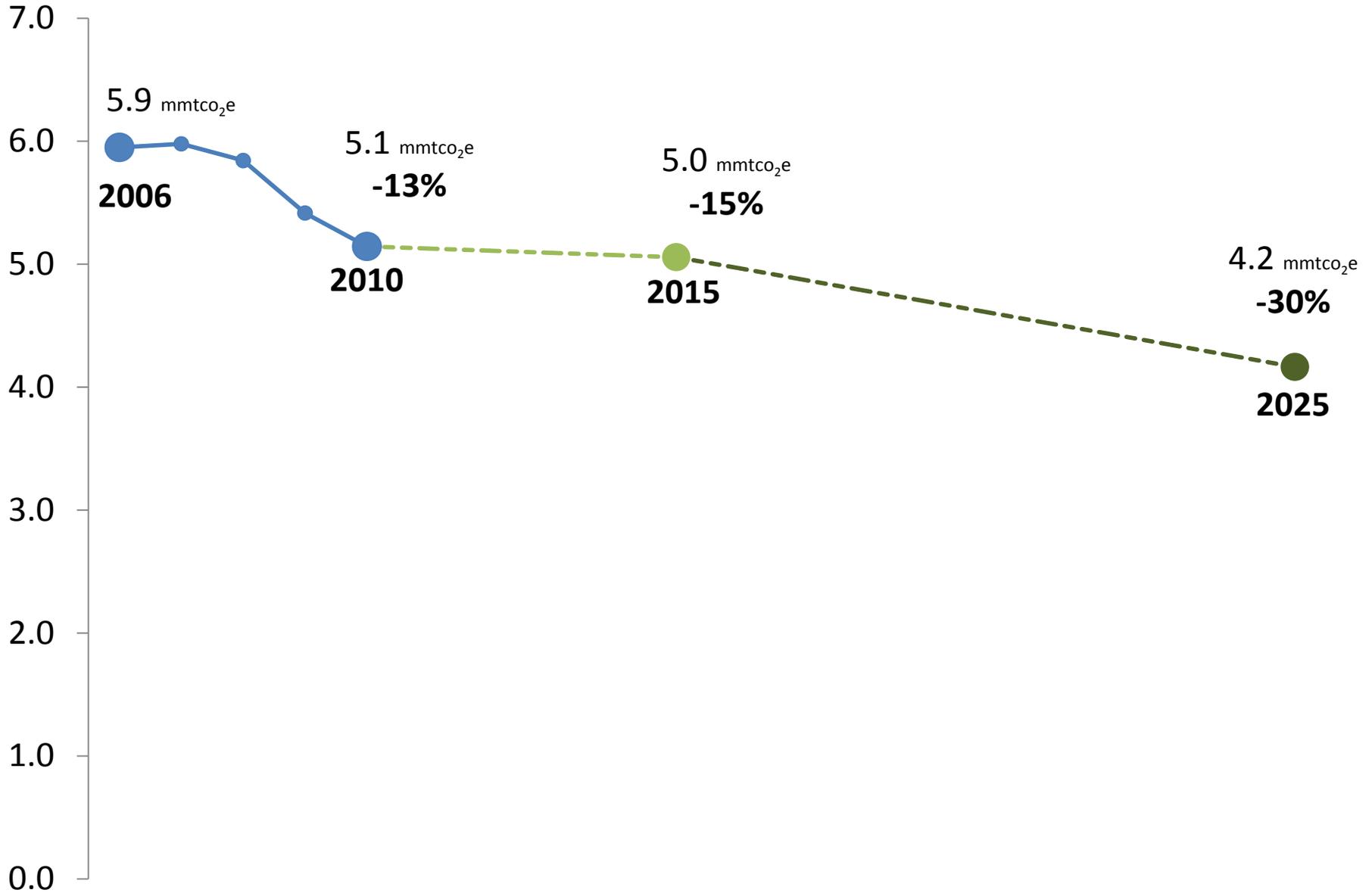
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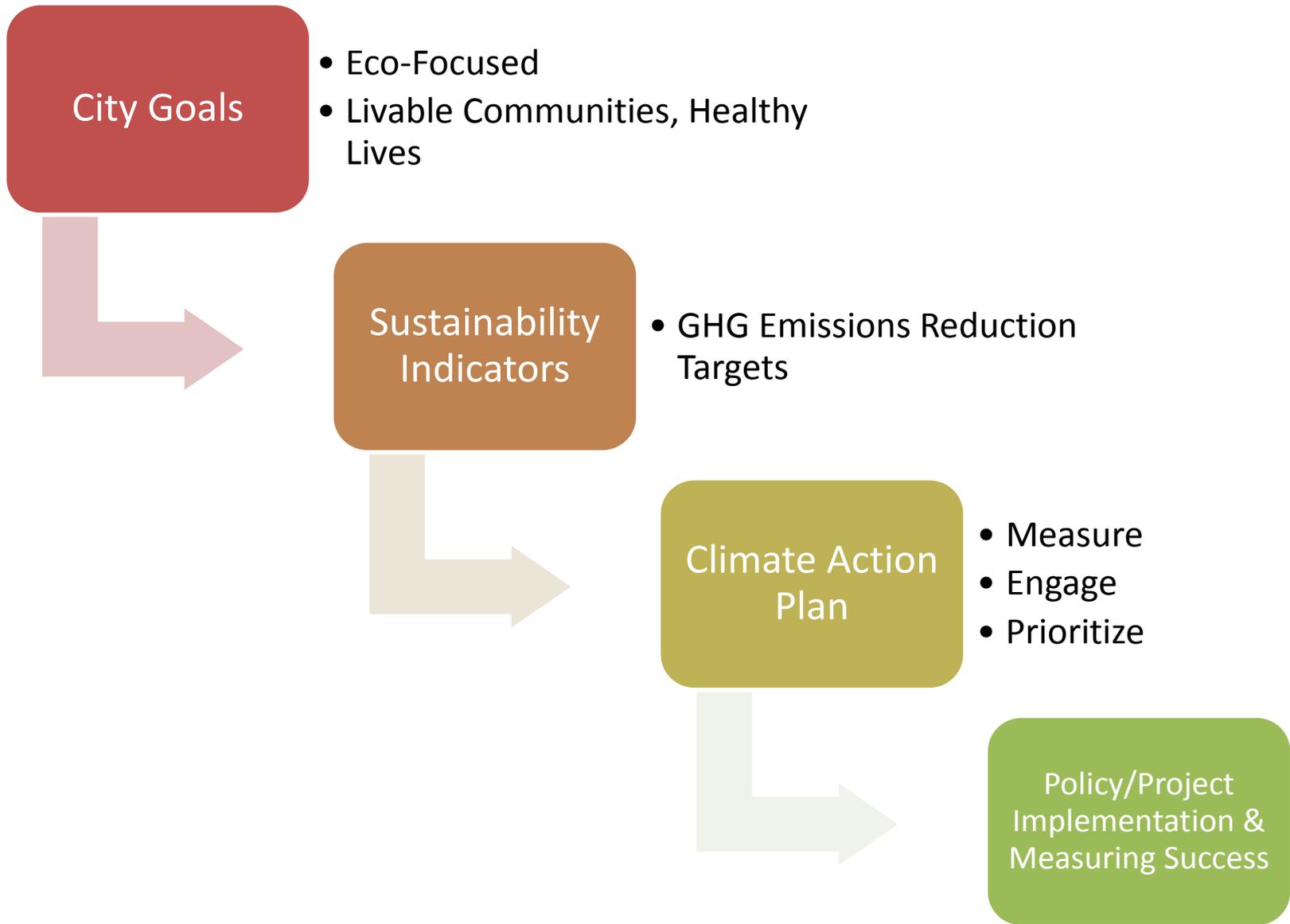
GOALS, DESIRED OUTCOMES, & PROCESS

Updating the Climate Action Plan

- This effort is in response to adopted City goals and specific targets for greenhouse gas emissions reduction
- The plan will incorporate and complement existing initiatives already underway that address emissions reduction
- Final product: **a set of goals and a list of recommended strategies from each focus area that can guide Minneapolis towards our emissions reduction targets**

Minneapolis Community GHG Reduction Targets







Technical Working Groups' Role

1. Understand emissions from each sector (Transportation/L.U., Buildings, Waste)
2. Understand existing policies, plans and initiatives
3. Develop potential emissions reduction strategies and apply *evaluation criteria*
4. Communicate with organization/constituents
5. Recommend a strategy package to the Steering Committee

Evaluation Criteria

Criteria:	Measurements:
GHG emissions reduction	Carbon dioxide equivalent
Costs and savings	Public and private \$ or relative cost (high, medium, low)
Implementation timeframe	Short, medium, long
Feasibility	Political, social, or institutional obstacles
Social Equity	Disparate impacts (positive or negative)
Co-benefits	Health, economic development, job creation, energy conservation, mobility, quality of life, etc.

EJ Working Group's Role

1. Review goals & strategies from each Technical Working Group (Transportation/L.U., Buildings, Waste)
2. Assess the impact of goals & strategies from an environmental justice and social equity perspective
3. Communicate with organization/constituents
4. Report to the Steering Committee on the potential positive, negative and disparate impacts of the goals & strategies

Steering Committee's Role

1. Review the Working Groups' recommendations
2. Provide staff with guidance on remaining public outreach events
3. Provide staff with guidance on a final set of goals & strategies
4. Review the draft plan
5. Make a recommendation to the City Council's Regulatory, Energy & Environment Committee

Where We Are Today

- Technical Working Groups have devoted hundreds of volunteer hours to reviewing existing plans, potential greenhouse gas impacts, and generating and vetting strategies



Where We Are Today

- Working Groups have **87 specific recommendations** across 17 key strategy areas organized under **12 goals**
- Staff have developed greenhouse gas emissions projections based on “business-as-usual” and plan goals
- Staff have collected feedback through an online survey, community outreach events and from City’s appointed environmental committee

Where We Are Going

- Steering Committee will review goals & strategies in detail (Fall)
- A review of goals & strategies from a **public health lens** will be presented to the Steering Committee (October)
- **EJ Working Group** will review goals & strategies and report to the Steering Committee (December)
- Public outreach events (October/November)
- Recommendation of a final plan (December)

Where We Are Going

SC #1

- Roles, schedule, process summary
- Intro to goals & strategies
- Key questions discussion – Goals, Public Outreach, Other

September

SC #2

- Detailed review of strategies
- Public health impacts review
- Environmental Justice update

October

SC #3

- Review public comment
- Environmental Justice review

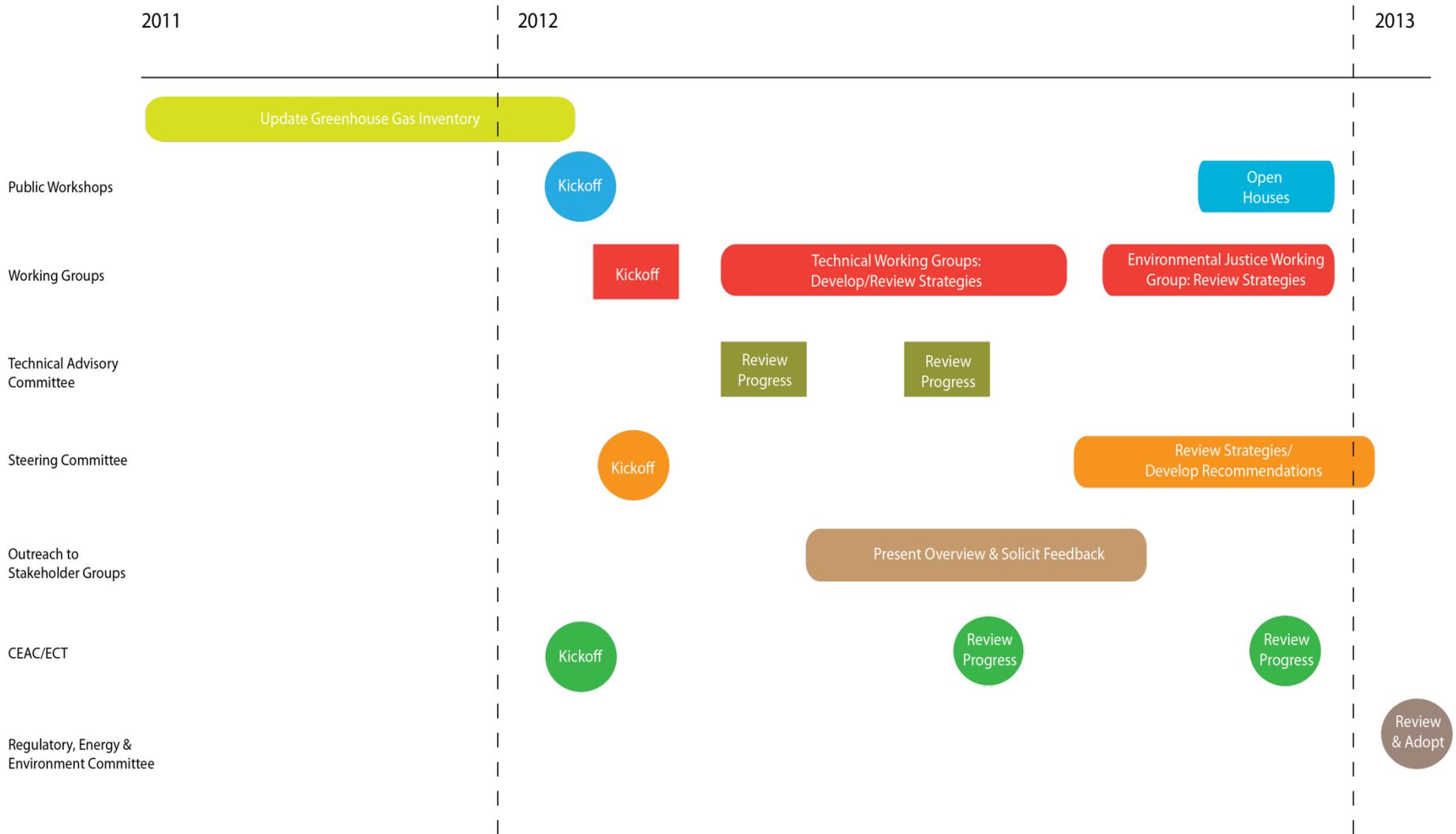
December

SC #4

- Review final plan document
- Make a recommendation to the City Council

January

Climate Action Plan Timeline

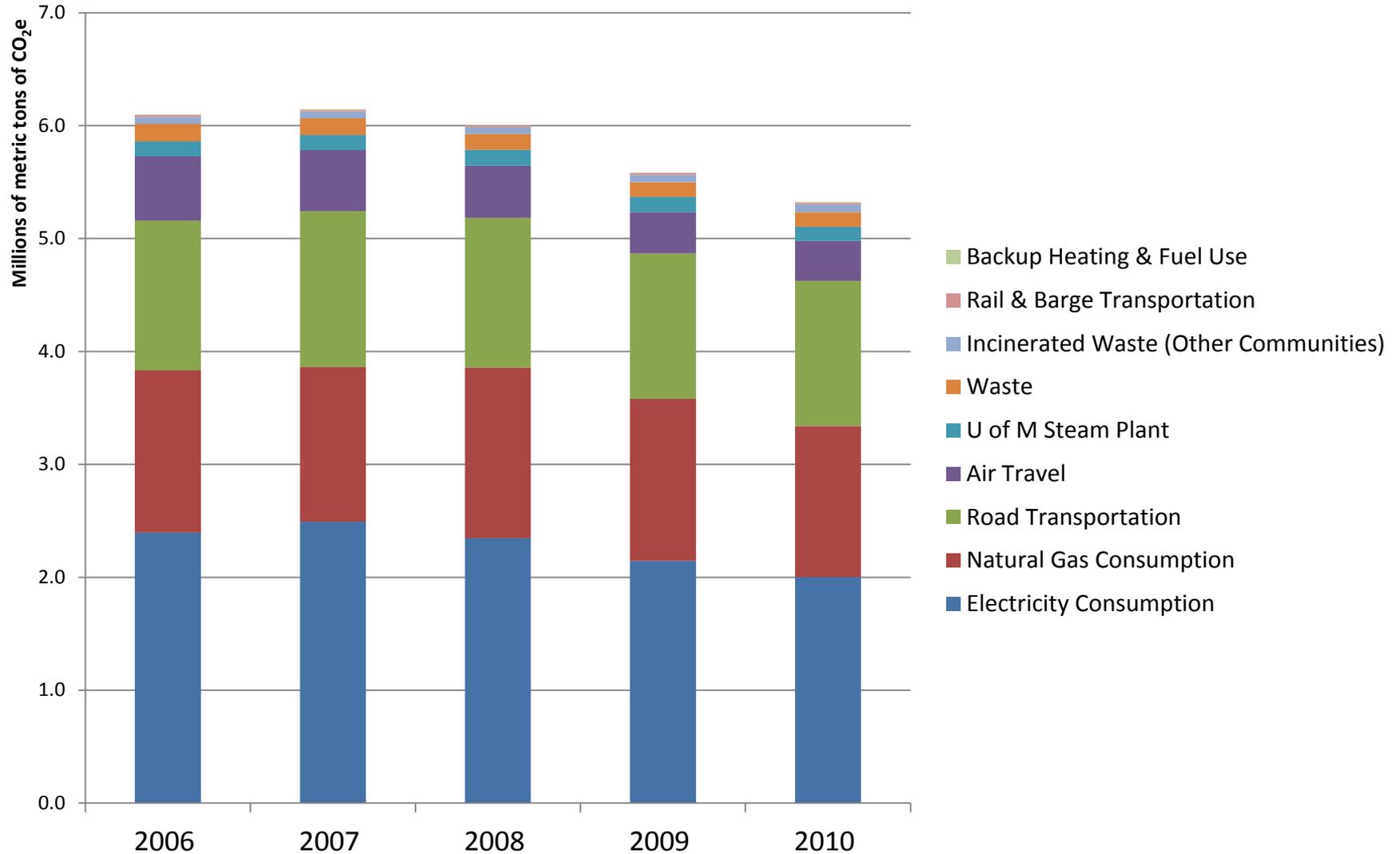




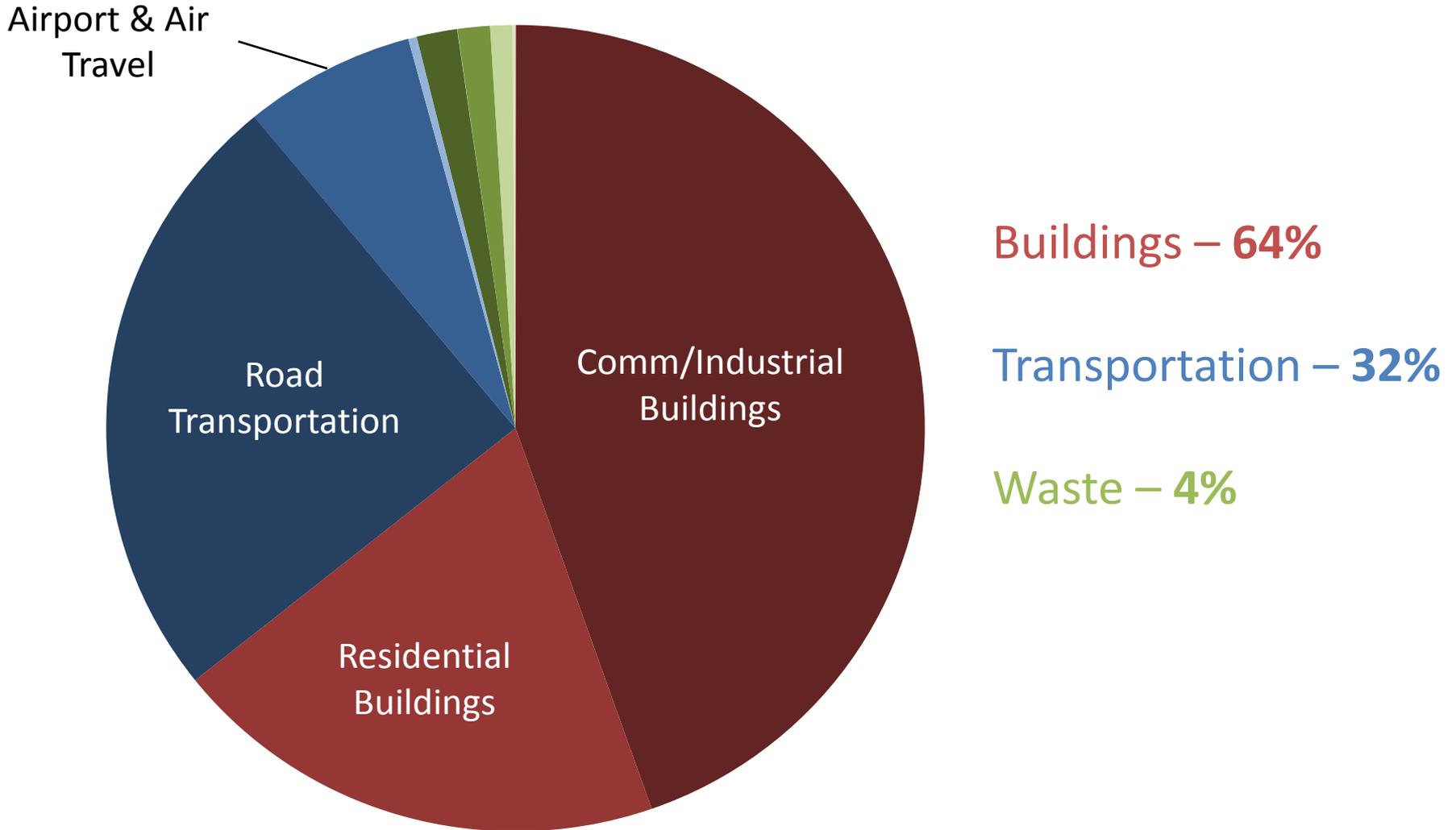
A Community Greenhouse Gas Inventory for Minneapolis

GEOGRAPHIC-PLUS INVENTORY (2006-2010)

Minneapolis Community GHG Inventory by Source



Minneapolis 2010 Community GHG Inventory by Sector



Key Findings

- **GHG emissions fell 12.6 percent from 6.09 million metric tons of carbon dioxide equivalent (million MTCO₂e) in 2006 to 5.32 million metric tons in 2010.** Nearly half of this reduction was the result of Xcel Energy using cleaner sources (natural gas and renewables) to produce electricity for the grid.
- **Per person GHG emissions fell 14 percent from 16.2 MTCO₂e in 2006 to 13.9 MTCO₂e in 2010.**
- **Energy use in commercial and residential buildings (primarily from heating and cooling) was the largest source of GHG emissions at 3.3 million MTCO₂e in 2010 representing 64 percent of the total.**
- **Transportation was the second largest source of GHG emissions at 1.6 million MTCO₂e in 2010 which represents 32 percent of the total.** This includes cars and trucks on the road, air travel, and rail and barge traffic in the city.

Key Findings

- **Emissions from waste, including landfill, waste incineration and wastewater treatment processes, represent 3.8 percent of the total GHG emissions in 2010.**
- **The largest decline in emissions came from the electricity category, with a 16.5 percent decline in emissions between 2006 and 2010.** While electricity use in the city remained fairly stable, significant changes in GHG intensity of electricity provided by Xcel led to significant reductions in electricity-related GHG emissions.
- **Emissions from transportation declined by 13 percent between 2006 and 2010, making it the second largest source of emissions decline in the city.** This change was driven by a reduction in emissions from airport operations, increasing fuel efficiency of cars and trucks, and a small decline in vehicle miles traveled.
- **Emissions from natural gas consumption dropped 6.7 percent between 2006 and 2010, or over 96,000 MTCO₂e.** This corresponds to a decline in natural gas usage between 2006 and 2010. Winter temperatures have a significant impact on the amount of natural gas consumed.



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GOALS & STRATEGIES: OVERVIEW & IMPACT

Organization



Buildings & Energy

GOALS

1. Achieve **15 percent energy efficiency in residential buildings** from the growth baseline by 2025.
2. Achieve **20 percent energy efficiency in commercial buildings** from the growth baseline by 2025.
3. Increase **electricity from local renewables from 1.5 to 5 percent** of the total consumed by 2025.

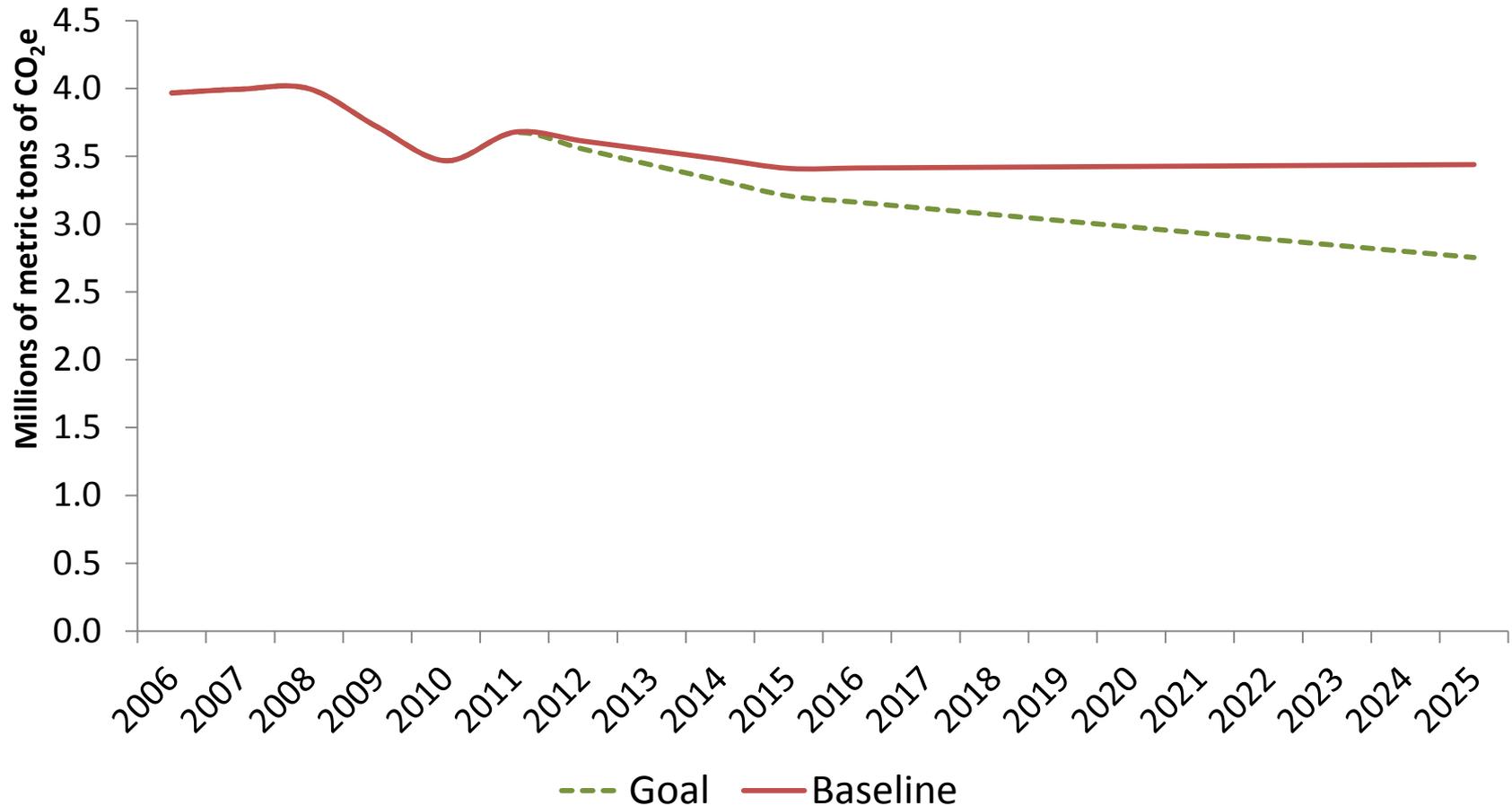
Buildings & Energy

STRATEGY AREAS

1. Cross-cutting
2. Residential
3. Commercial
4. Industrial
5. Renewable energy

Buildings & Energy

Buildings Sector Emissions – Baseline and Goals



Transportation & Land Use

GOALS

1. **Reduce automobile vehicle miles traveled in Minneapolis** while improving accessibility, increasing transportation choices and promoting and accommodating growth.
2. Support **livable, walkable, and growing neighborhoods** that meet the needs of all Minneapolis residents.
3. Increase the share of Minneapolis residents and workers choosing **non-auto modes** for commuting and other trips.
4. Through local action and federal and state legislation, support a transition to **cleaner fuels and more efficient vehicles**.

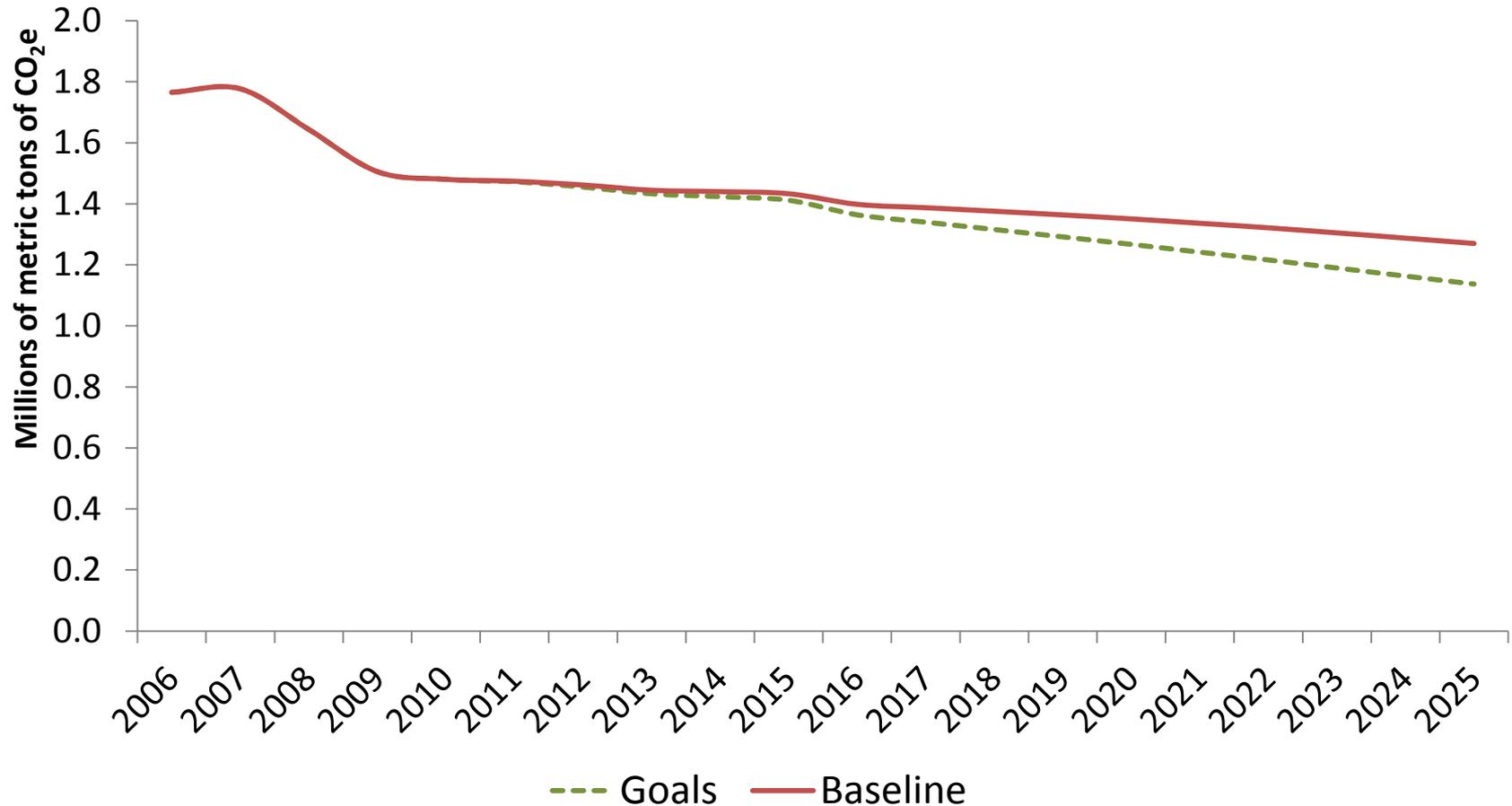
Transportation & Land Use

STRATEGY AREAS

1. Planning and Land Use
2. Transit & Car Sharing
3. Active Transportation
4. Parking Management
5. Transportation Demand Management
6. Clean Fuels
7. Other

Transportation & Land Use

Transportation Sector Emissions – Baseline and Goals



Waste & Recycling

GOALS

1. Achieve a **zero percent growth rate** in the total waste stream from 2010 levels.
2. **Recycle 50 percent of the waste stream** (commercial and residential) in Minneapolis by 2025.
3. **Increase organics collection to 15 percent** of the waste stream by 2025.
4. Support Metropolitan Council Environmental Service's goal to **reduce energy use by 25 percent** below 2006 levels by 2015.
5. **Increase awareness of the lifecycle impacts of products** to address GHGs occurring outside the community.

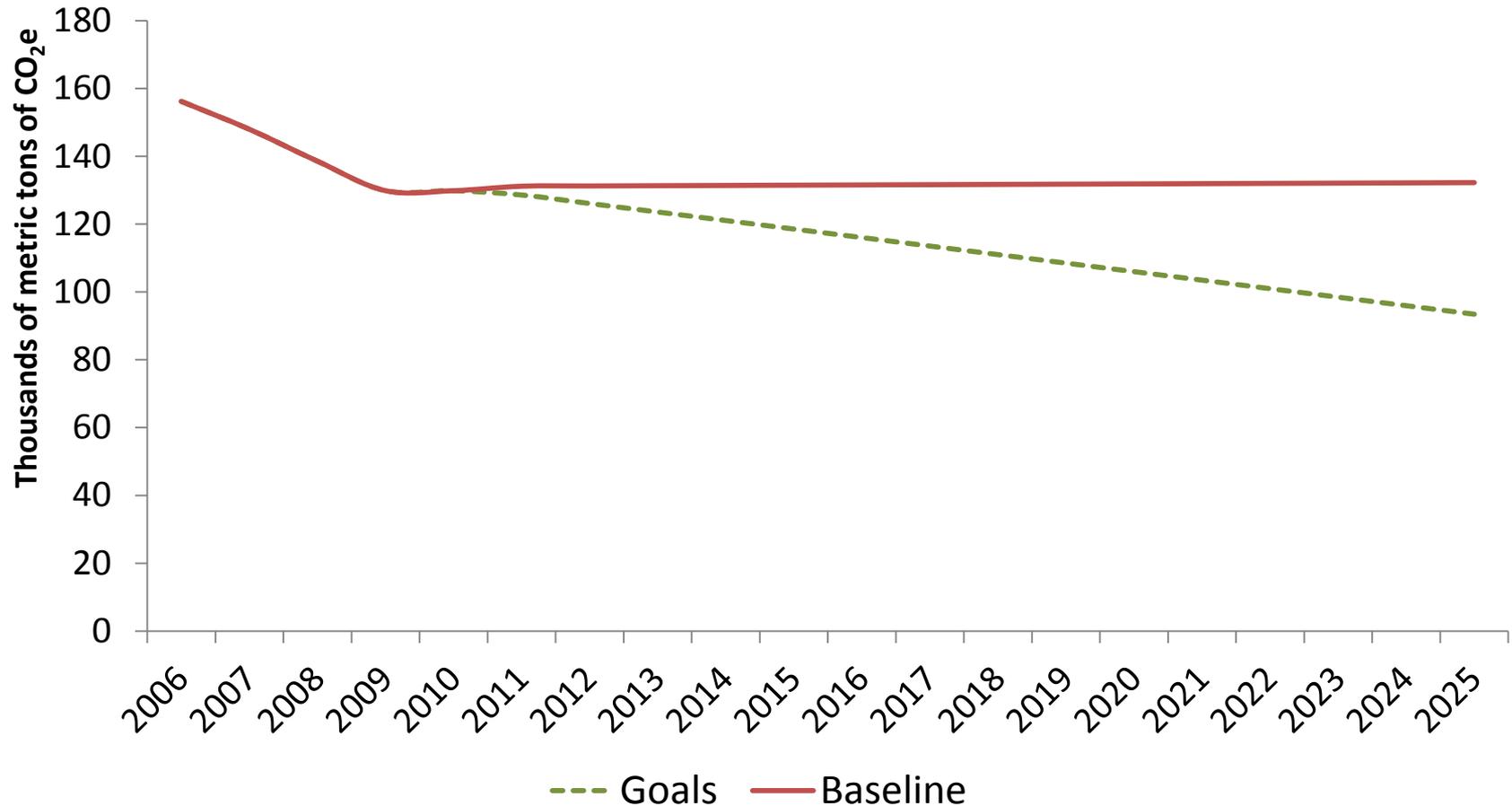
Waste & Recycling

STRATEGY AREAS

1. Waste Reduction
2. Recycling
3. Organics
4. Product Lifecycle
5. Wastewater Treatment

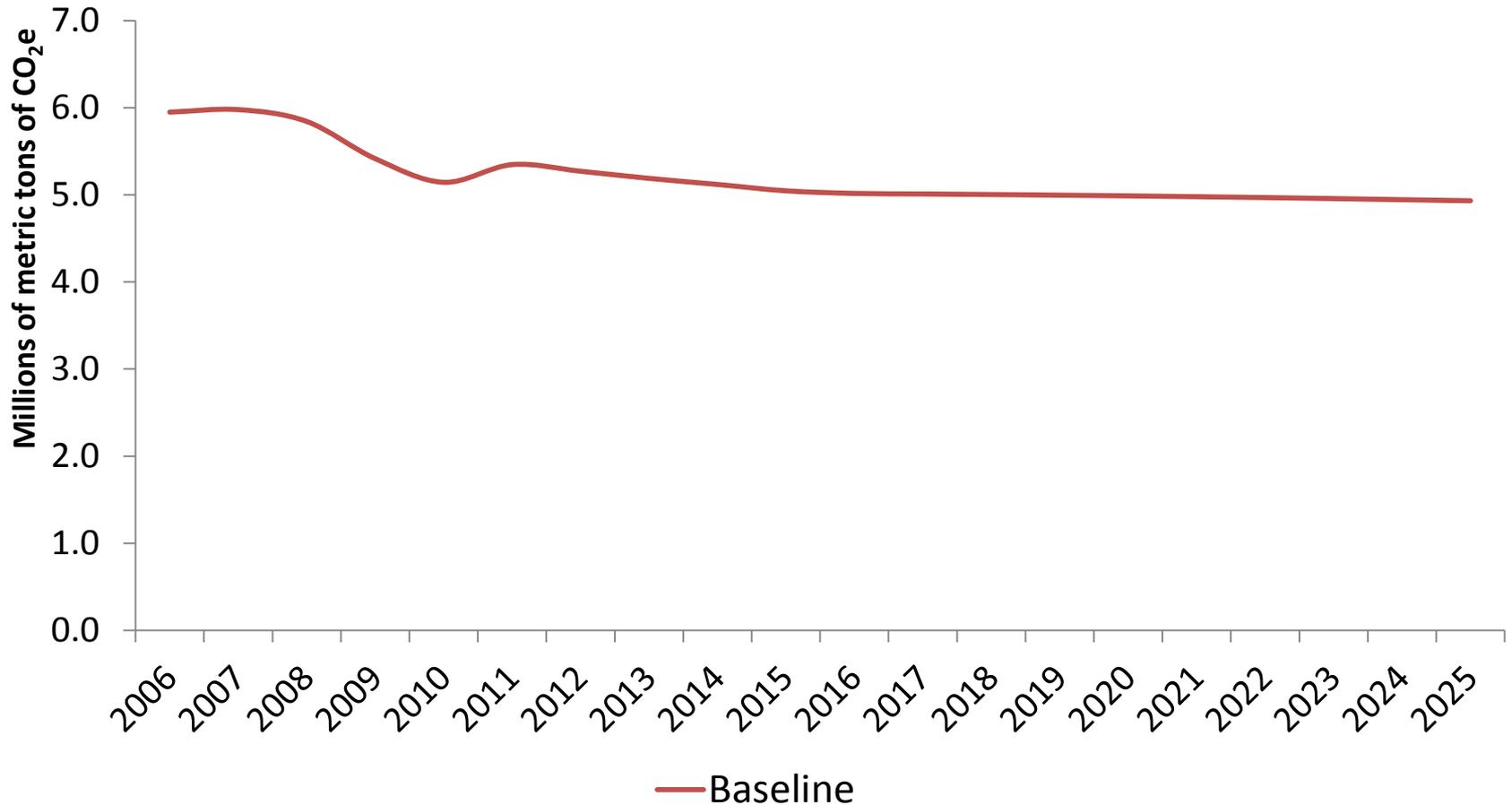
Waste & Recycling

Minneapolis Waste Emissions – Baseline and Goals



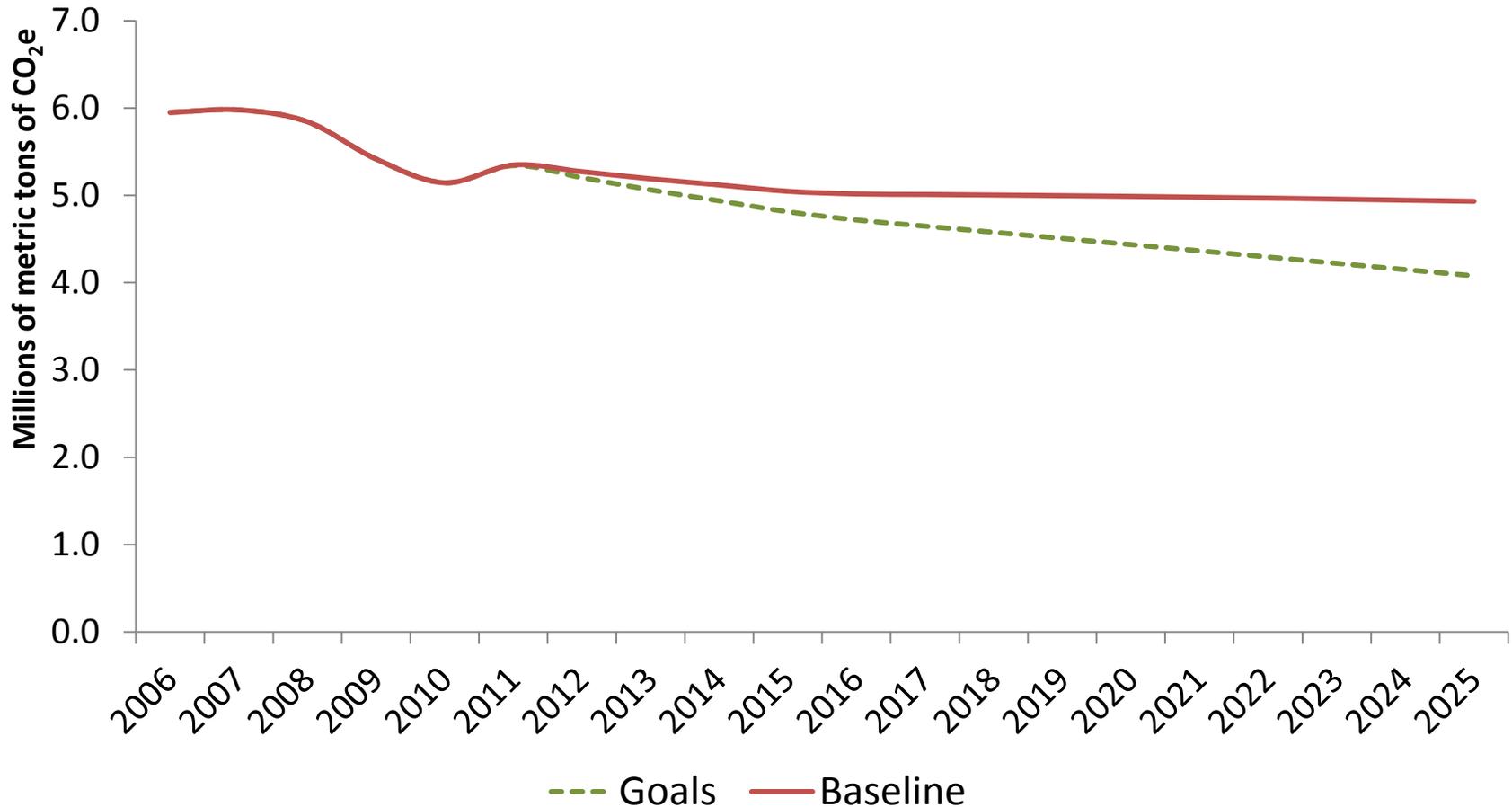
Climate Action Plan Impact

Minneapolis Emissions – Baseline and Goals



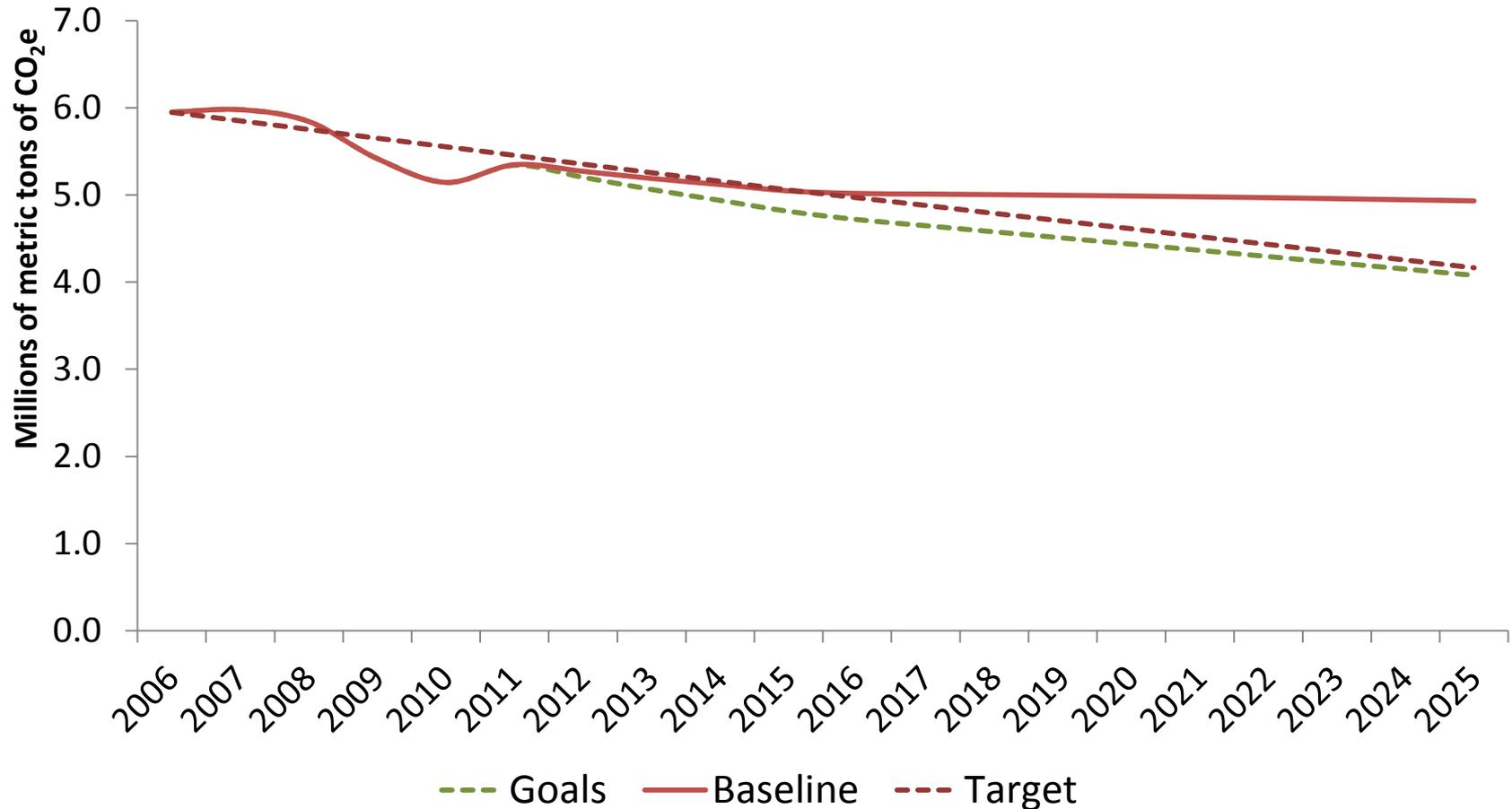
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Minneapolis Emissions – Baseline and Goals



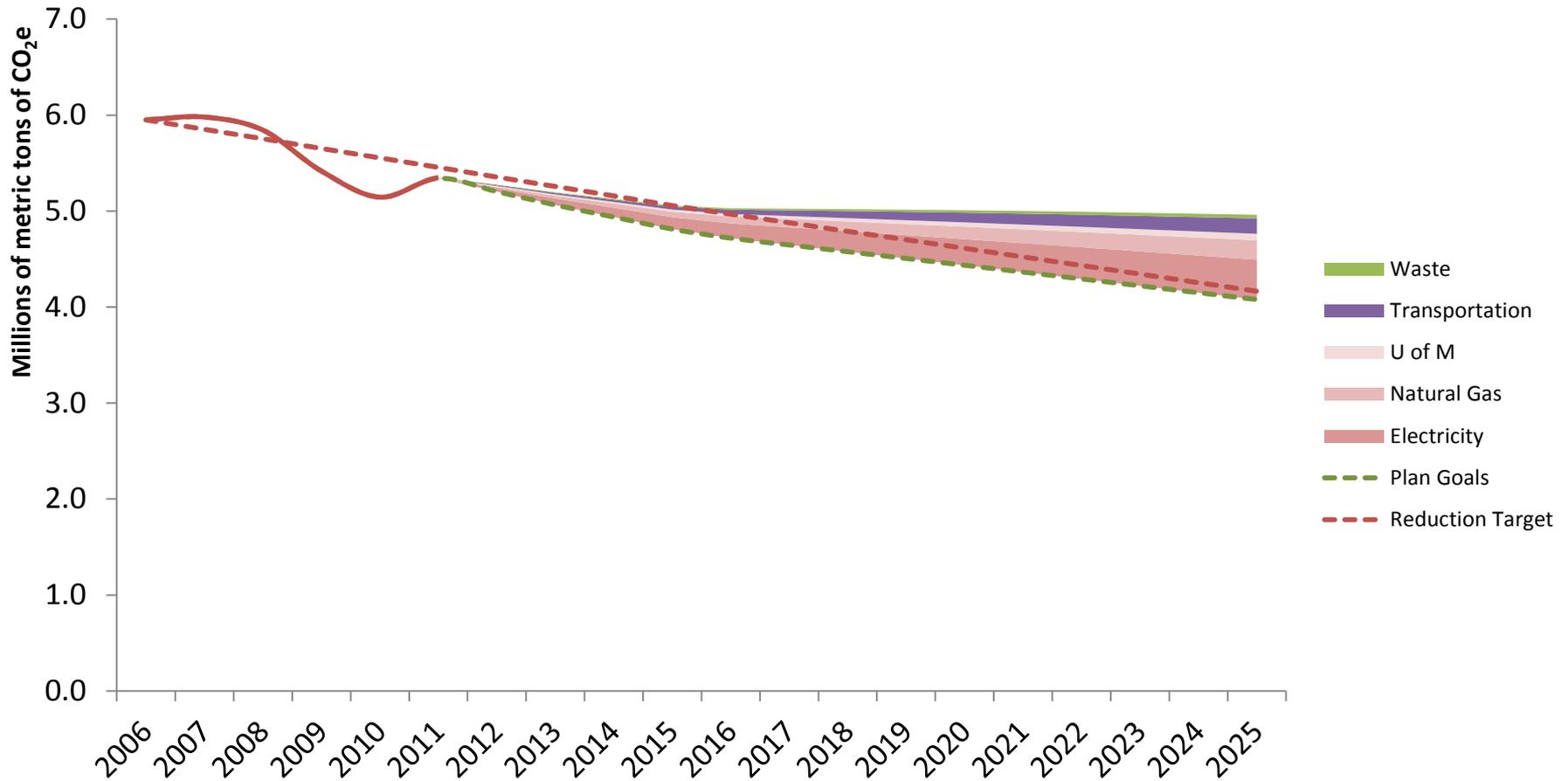
Climate Action Plan Impact

Minneapolis Emissions – Baseline and Goals



Climate Action Plan Impact

Emissions savings by sector, plan goals, and adopted reduction target





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DISCUSSION: GOALS FOR PLAN IMPLEMENTATION

Example Implementation Goals

Minneapolis will meet the adopted 2015 and 2025 greenhouse gas emissions reduction targets

1. Seek strategies with multiple benefits (cost-reduction, emissions reduction, health impacts, etc.) with an understanding that there may be trade-offs
2. Prioritize high-impact, short timeframe strategies for implementation
3. Implement strategies in a manner that does not create disparate impacts across Minneapolis communities and seek strategies that have positive impacts on all communities
4. Monitor progress annually and revisit goals and strategies as necessary
5. Encourage the City of Minneapolis to move beyond mitigation and begin planning to adapt to a changing climate



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DISCUSSION: **PUBLIC OUTREACH**

Public Outreach

- Public Open Houses (tentative dates)
 - October 30th, Hiawatha Maintenance Facility
 - November 8th, UROC
 - *Additional*, Downtown Library
- Online/printed survey on goals and strategies
(October – December)
- Citizens Environmental Advisory Committee
(CEAC) review *(November/December)*

Next Steps

- Next meeting (October 12th):
 - Detailed review of strategies
 - Public health impacts
 - Environmental Justice update
- Staff will begin preparing for public outreach
- Environmental Justice Working Group meeting #1 – Wednesday, September 19th

Thank you!

www.minneapolisismn.gov/sustainability/climate

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