Minneapolis Climate Action Plan

Buildings and Energy Working Group

June 12, 2012

Agenda

1:00 – 1:10	**Greetings, Introductions & Process Refresher**
1:10 – 1:25	**Information on U of M Reduction Goals**
1:25 – 1:45	**Update on emissions forecasts**
1:45 – 2:55	**Discussion**
2:55 – 3:00	**Next Steps**

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INTRODUCTIONS

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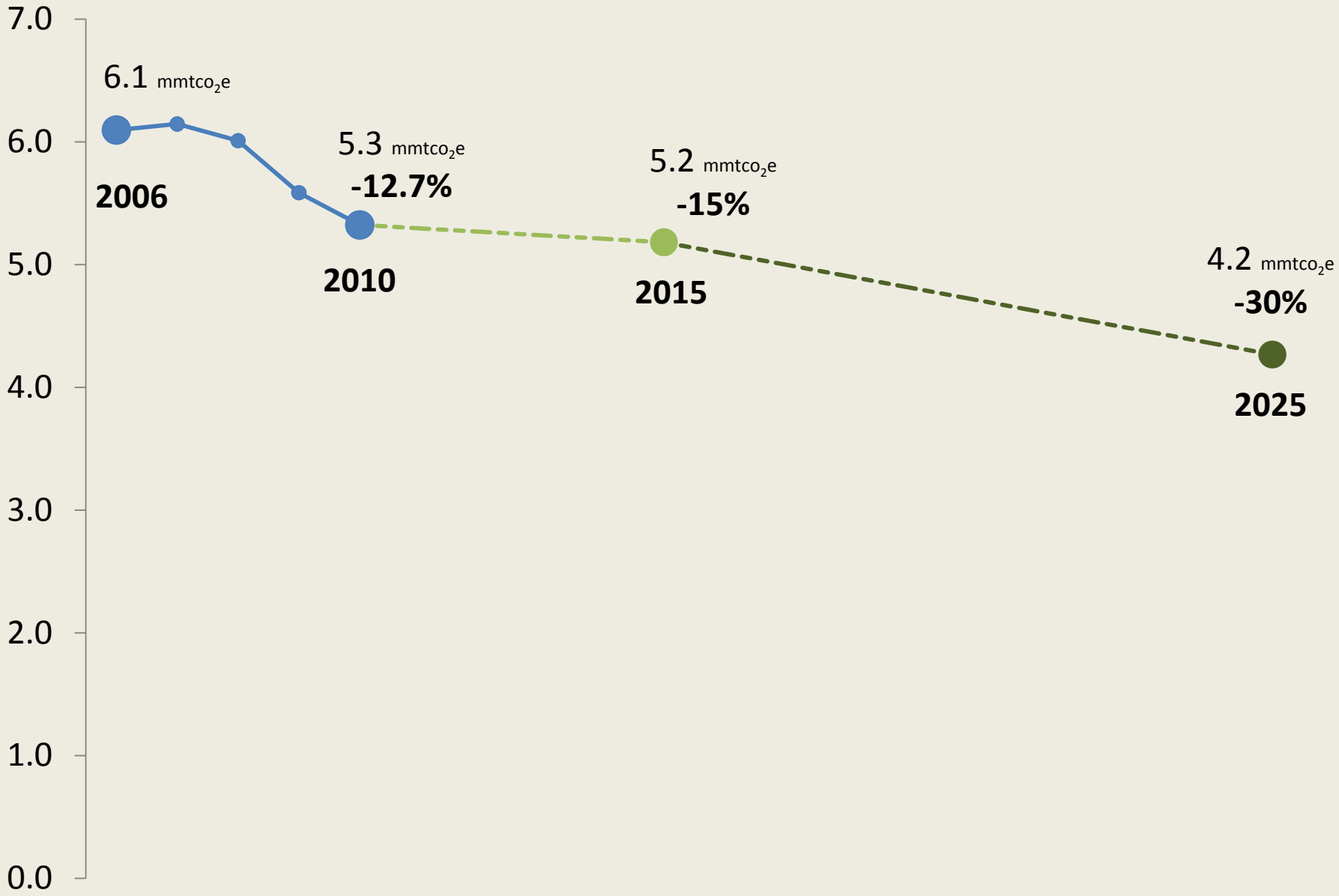
PROCESS REFRESHER

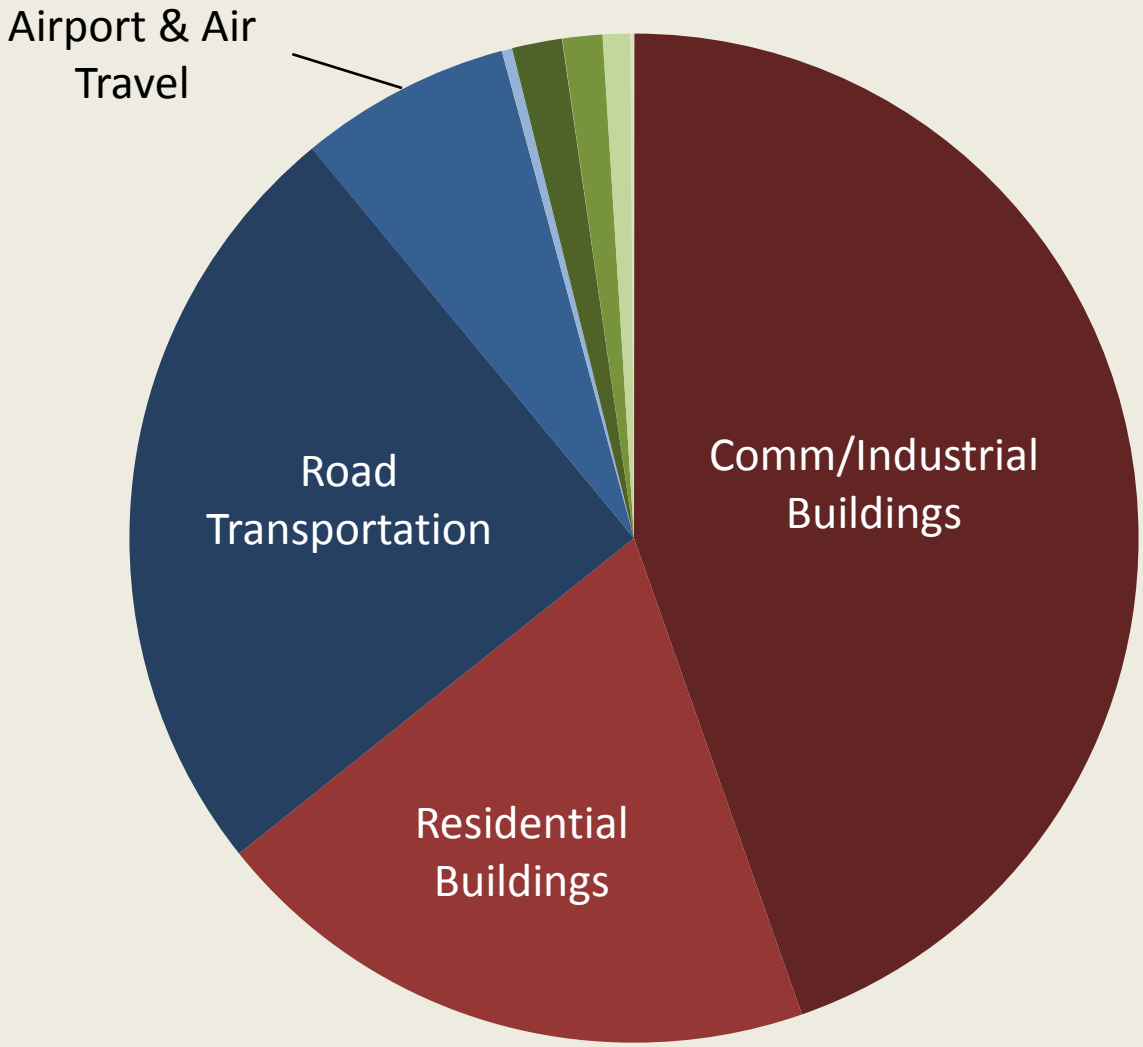
Minneapolis Community GHG Reduction Targets



Evaluation Criteria

Criteria:	Measurements:
GHG emissions reduction	**Carbon dioxide equivalent**
Costs and savings	Public and private $ or relative cost (high, medium, low)
Implementation timeframe	Months, years
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.

Minneapolis 2010 Community GHG Inventory by Sector

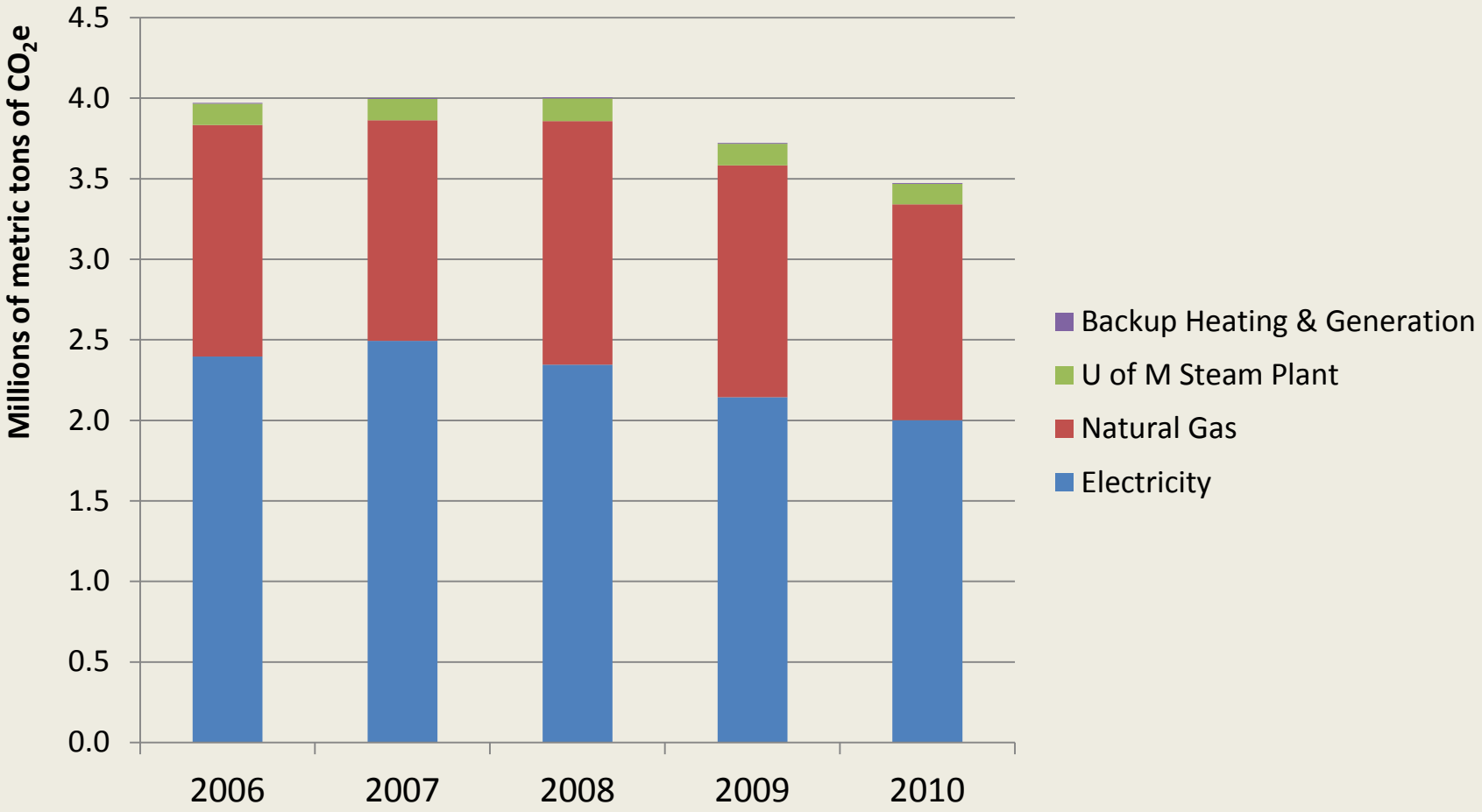


Buildings – **64%**

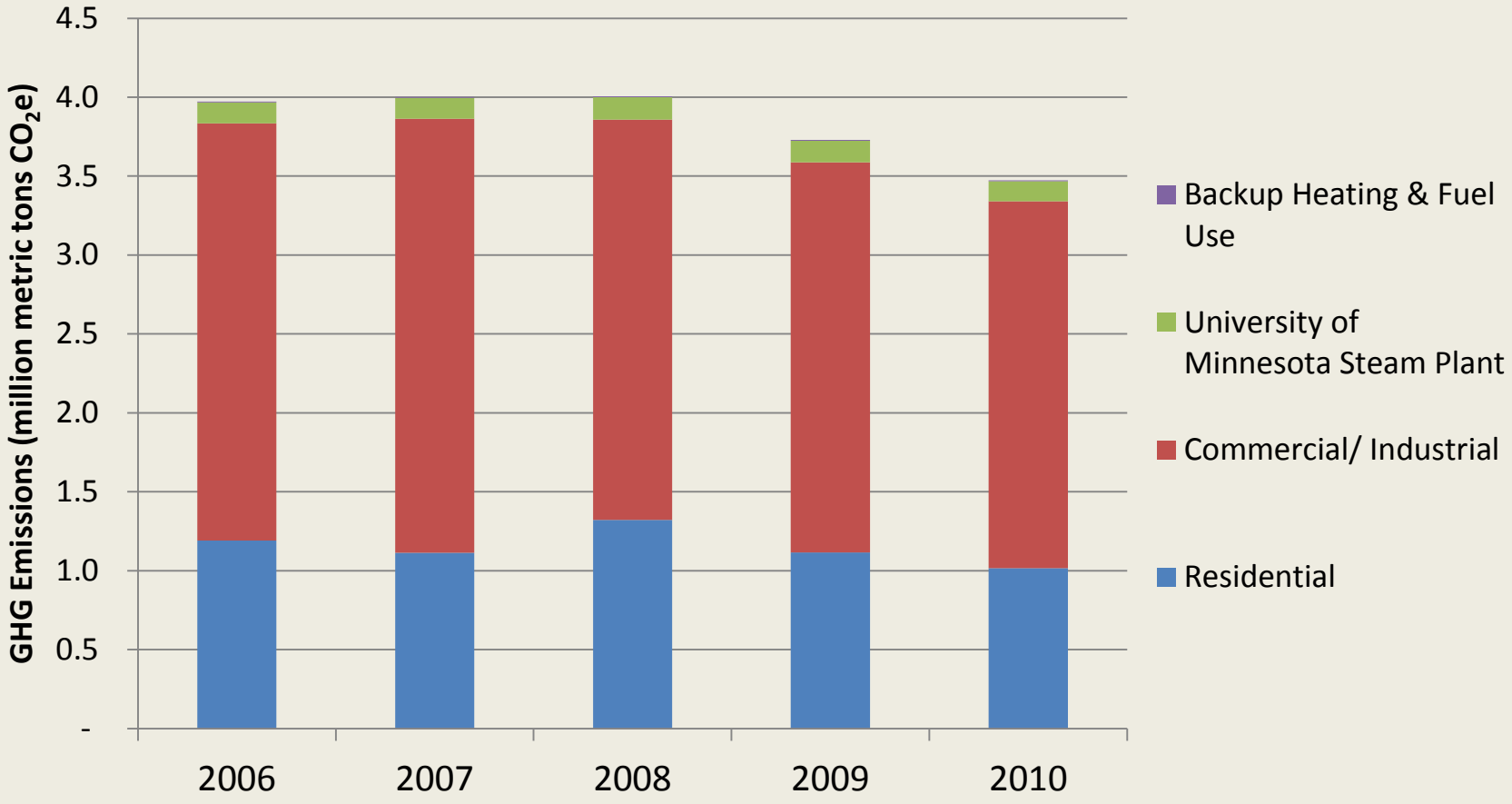
Transportation – **32%**

Waste – **4%**

Building Emissions (by Fuel)



Building Emissions (by Type)



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U OF M REDUCTION GOALS

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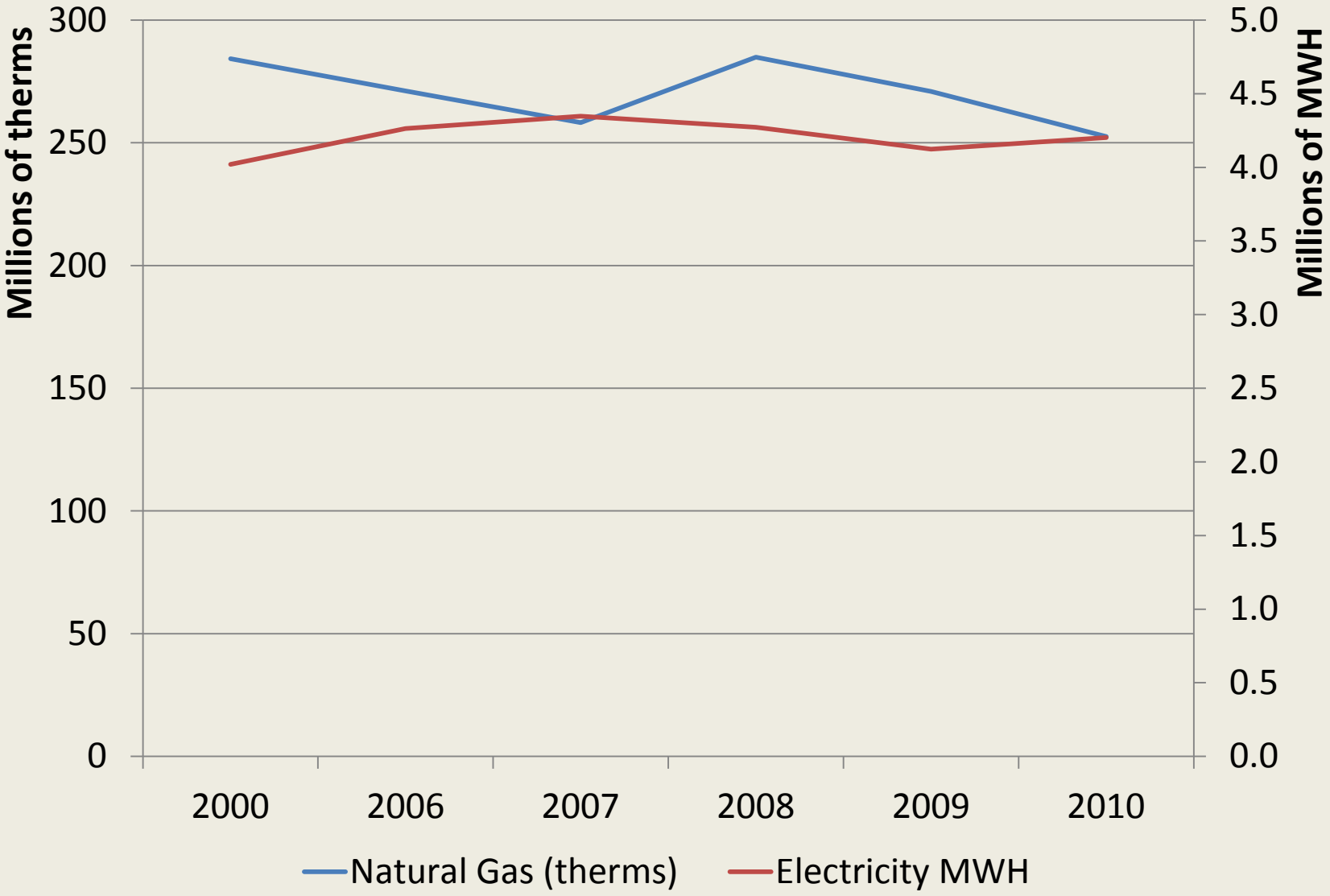
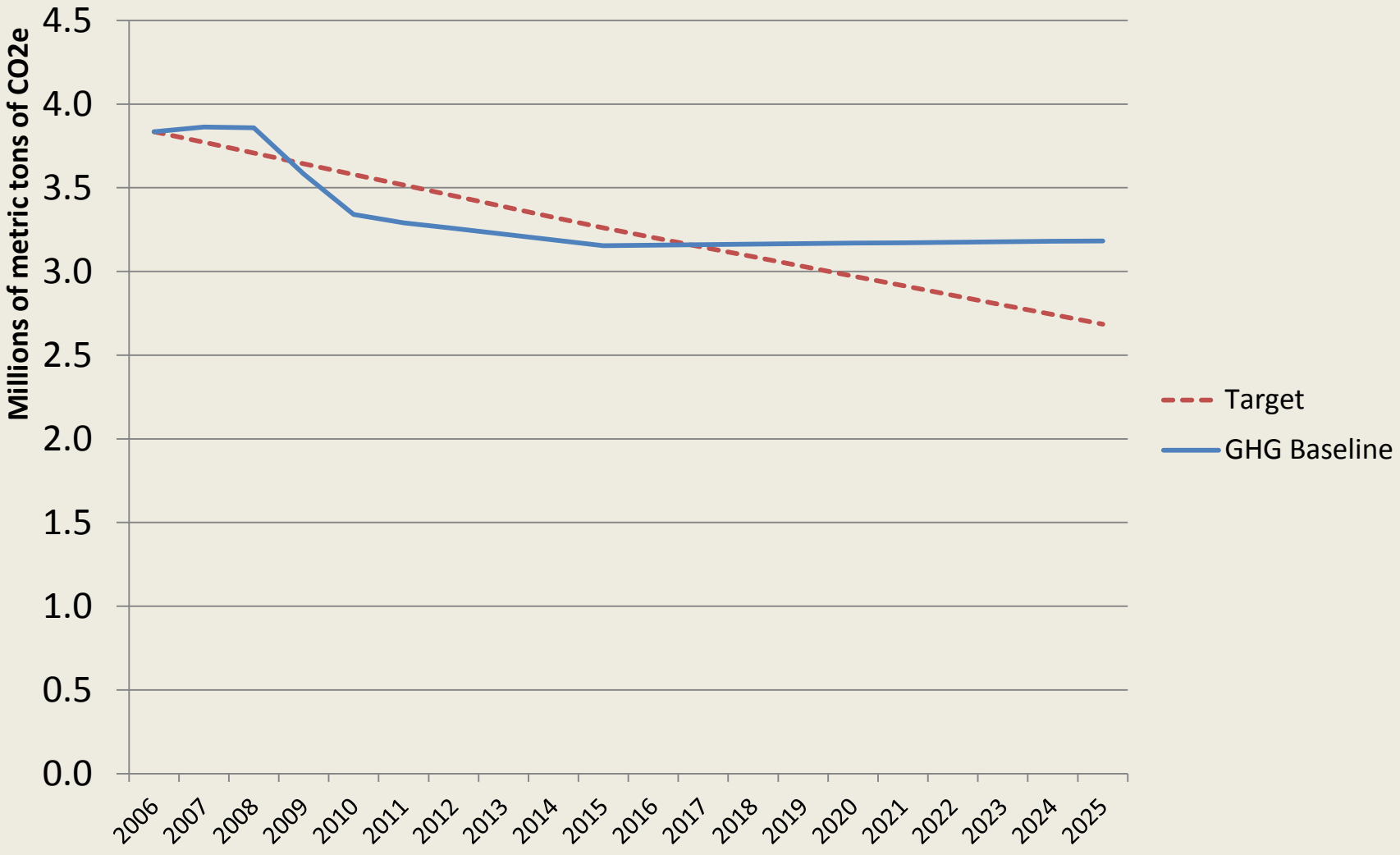
EMISSIONS FORECASTS

Major fuel types in buildings – usage in Minneapolis



Mpls GHG Emissions from Electricty and Natural Gas

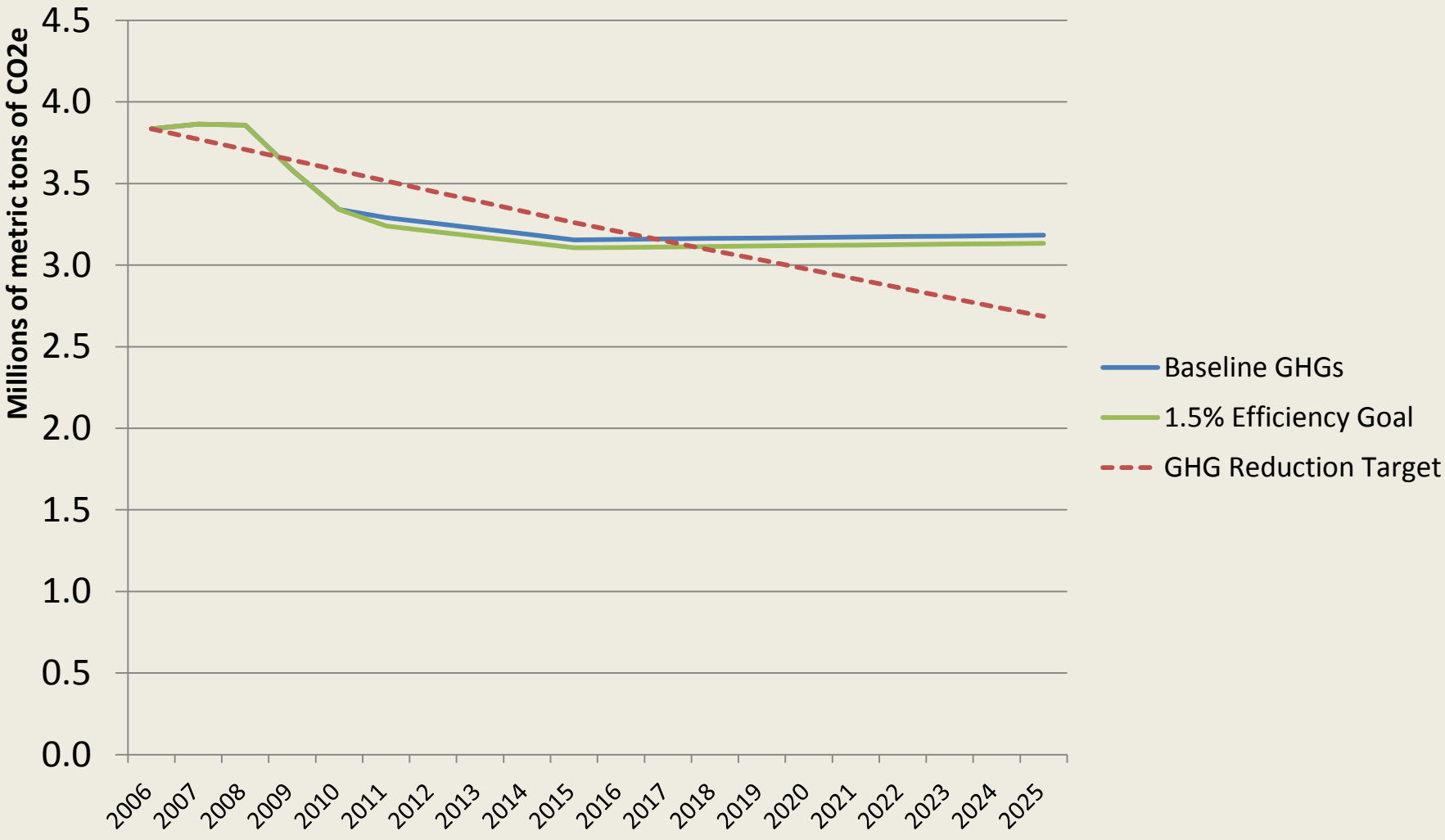
Baseline and Potential Goals



Baseline assumptions: 0.5% electricity growth, 0.0% natural gas growth

Mpls GHG Emissions from Electricty and Natural Gas

Baseline and 1.5% EE Goal



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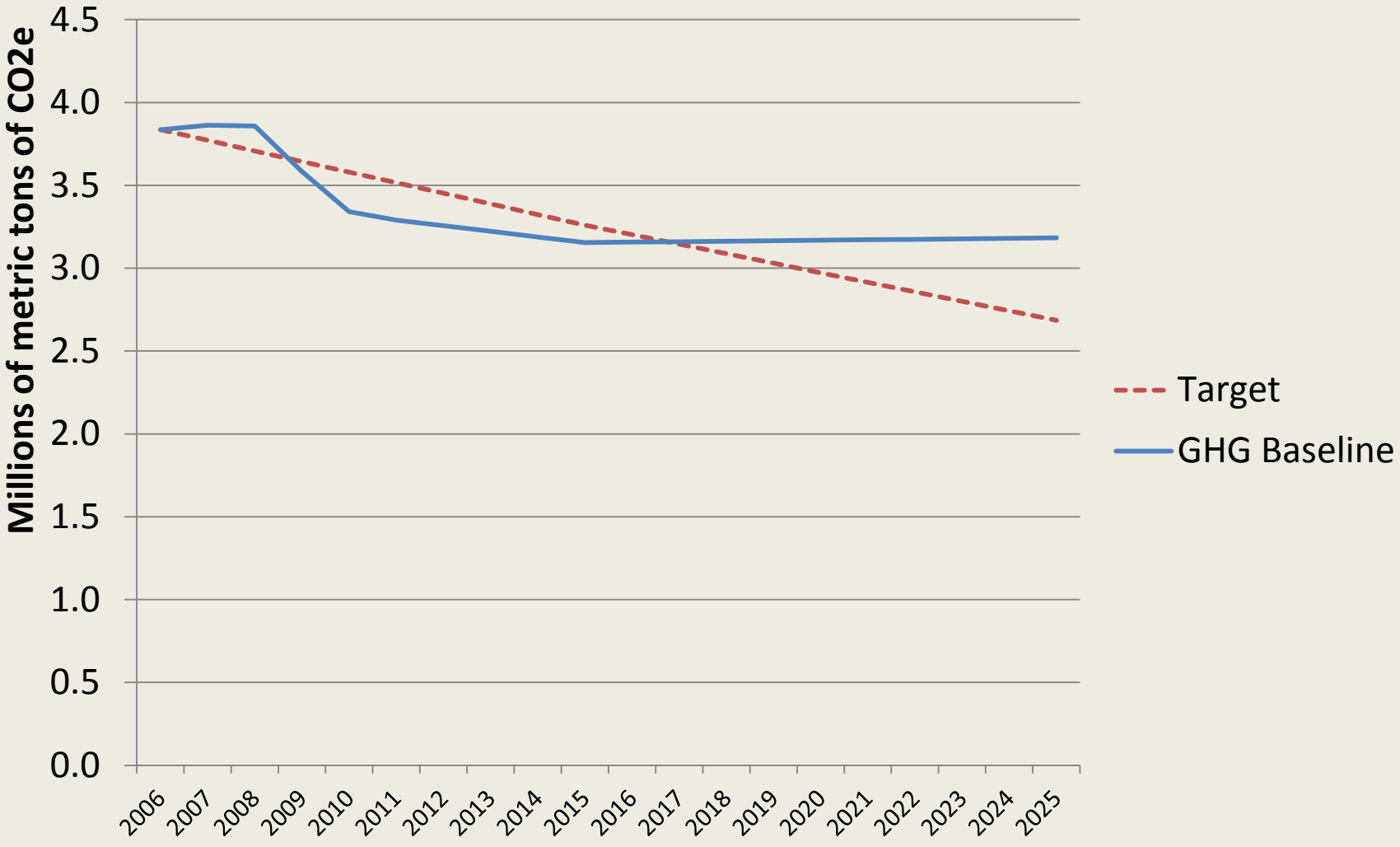
What would it take to reach the 2025 target?

- Achieve **10% energy efficiency in residential buildings** from the growth baseline by 2025. (100,000 mt)
- Achieve **10% energy efficiency in commercial buildings** from the growth baseline by 2025. (114,000 mt)
- Increase **electricity from renewables from 1.5% to 12% by 2025**. (192,000 mt)

Mpls GHG Emissions from Electricty and Natural Gas

Baseline and Potential Goals



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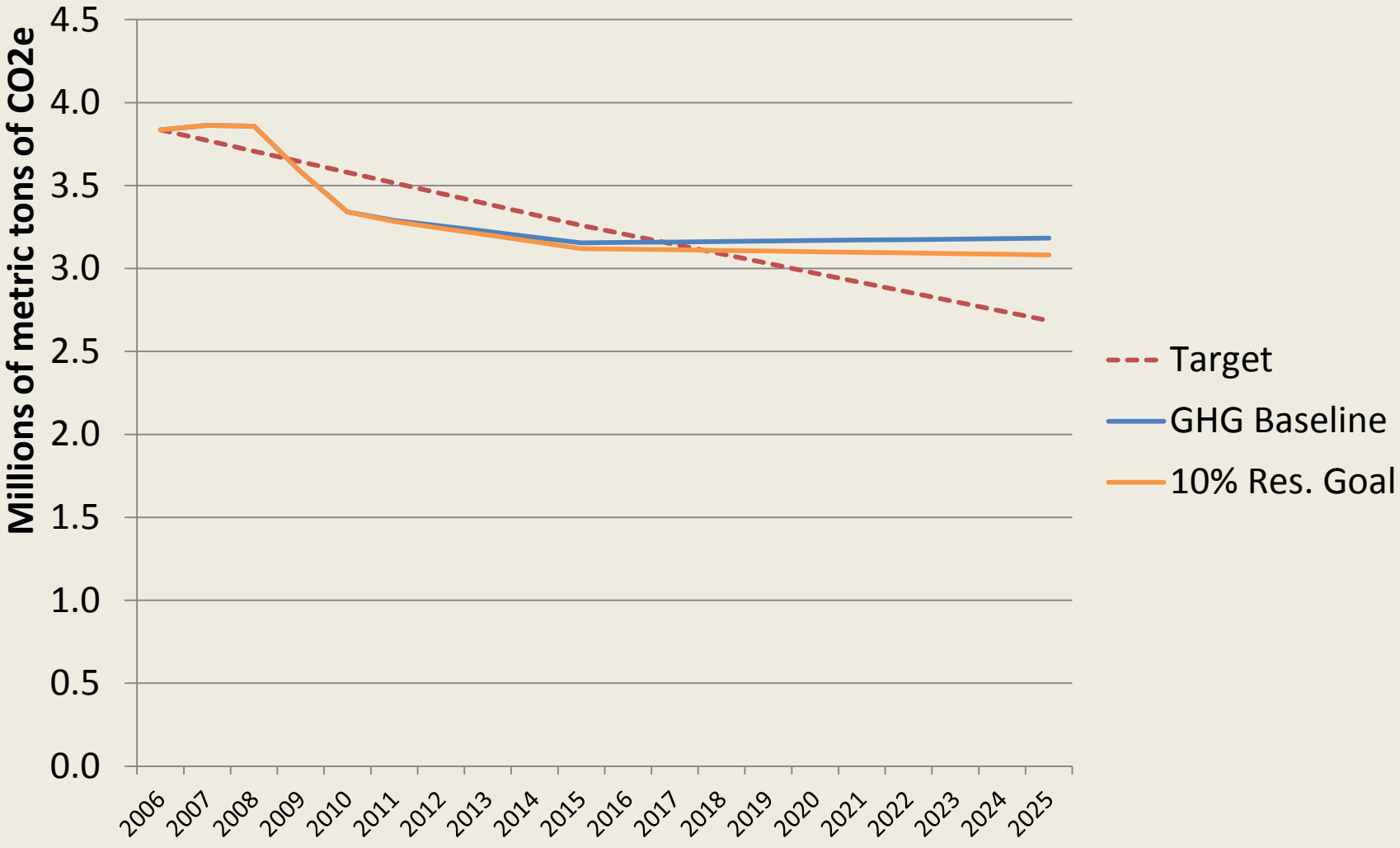
Mpls GHG Emissions from Electricty and Natural Gas

Baseline and Potential Goals



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Mpls GHG Emissions from Electricty and Natural Gas

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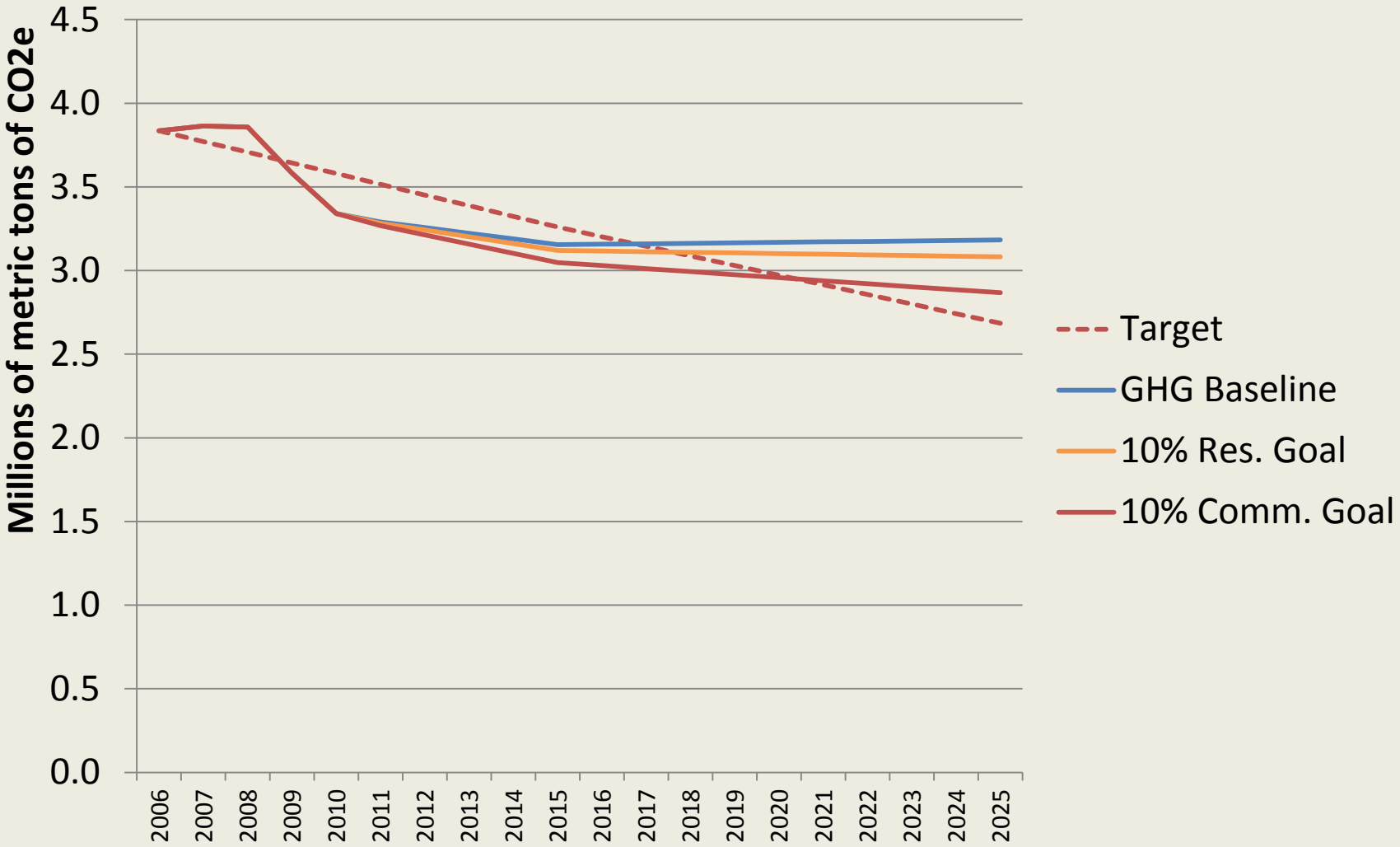

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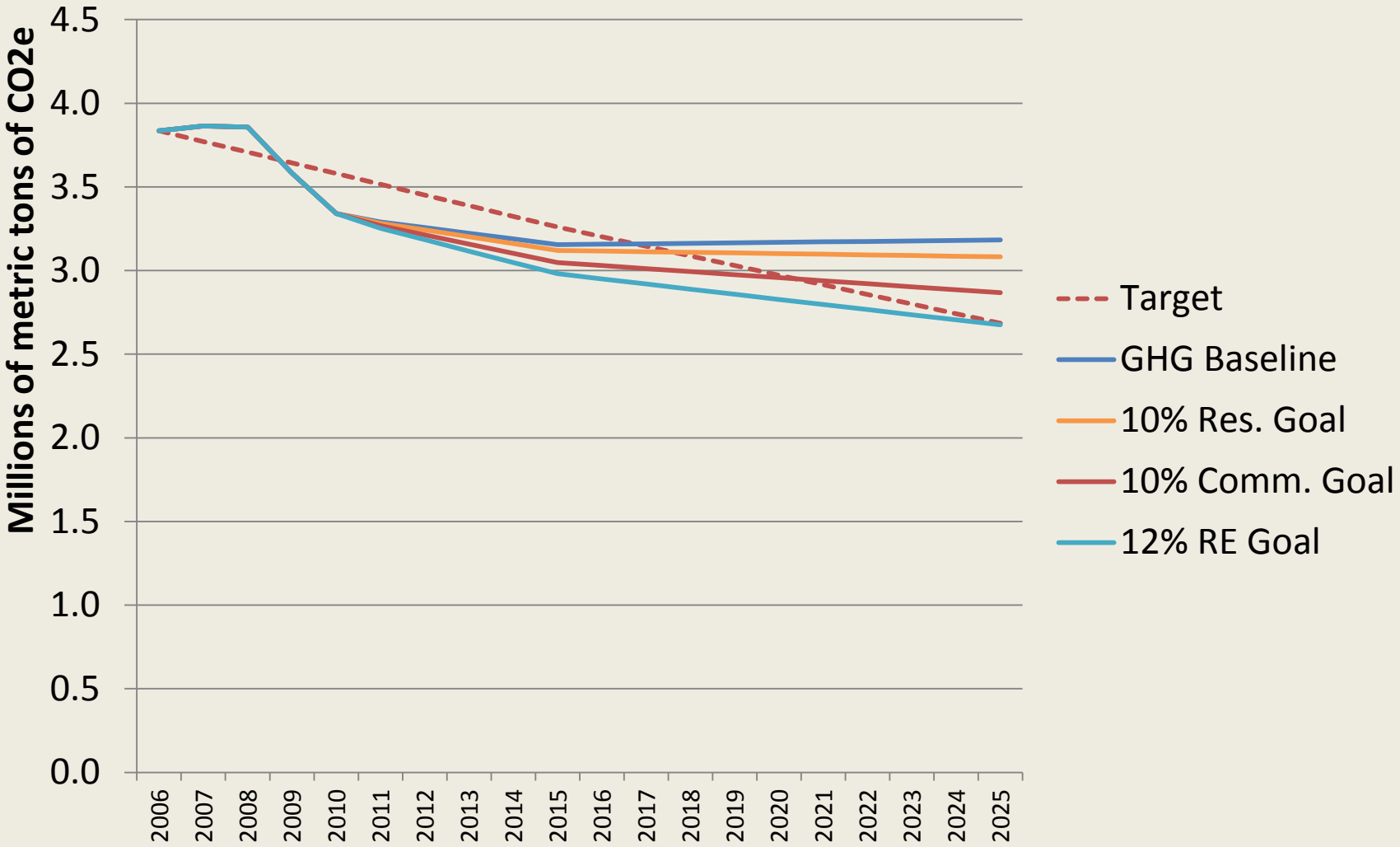
Mpls GHG Emissions from Electricty and Natural Gas

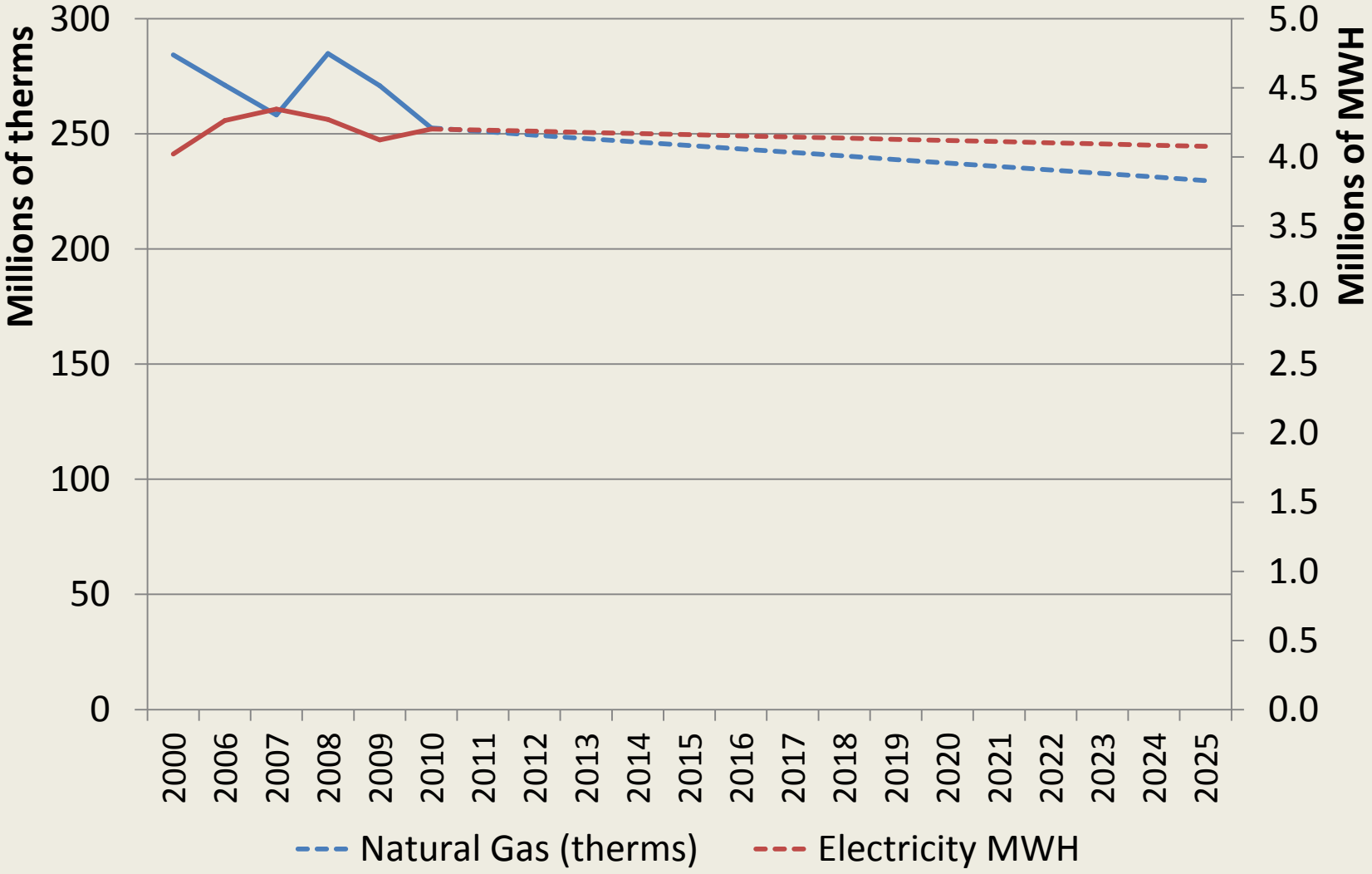
Baseline and Potential Goals



Baseline assumptions: 0.5% electricity growth, 0.0% natural gas growth

Major fuel types in buildings – usage in Minneapolis

Future projection based on potential goals



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DISCUSSION

Discussion

- Goals
  - Are they appropriately balanced (comm. vs residential, electricity vs natural gas)?
  - Are they adequate to drive action?
  - In your opinion, are the strategies appropriately scaled to achieve the goals?

Discussion

- Strategies
  - What strategies do you think will be most effective (greatest impact and most readily implemented)
  - Are there any that should be dropped from the list?
  - Are there any strategies you would add?

Next Steps

- Revise strategy list based on work group comments
- Apply the criteria to the strategy list
- Finalize recommended strategies in July
- Next meeting will be **July 10th at 2 pm**

Thank You

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www.minneapolismn.gov/sustainability/climate/

Photo courtesy of Flickr user *CA*