Minneapolis
Climate Action Plan

Steering Committee

October 12, 2012| Meeting 2

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Agenda

9:00 – 9:10	Welcome and introductions
9:10 – 9:20	Process update
9:20 – 9:50	Minneapolis Climate Action Plan: Public health impacts *Kelly Muellman, Minnesota Department of Health*
9:50 – 10:00	Break
10:00 – 10:20	Discussion of implementation goals
10:20 – 11:20	Detailed review of strategies: • Buildings & Energy • Transportation & Land Use • Waste & Recycling
11:20 – 11:30	Next steps

Minneapolis Climate Action Plan

INTRODUCTIONS

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PROCESS UPDATE

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Where We Are Going

SC #1 — **September**

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

SC #2 — **October**

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

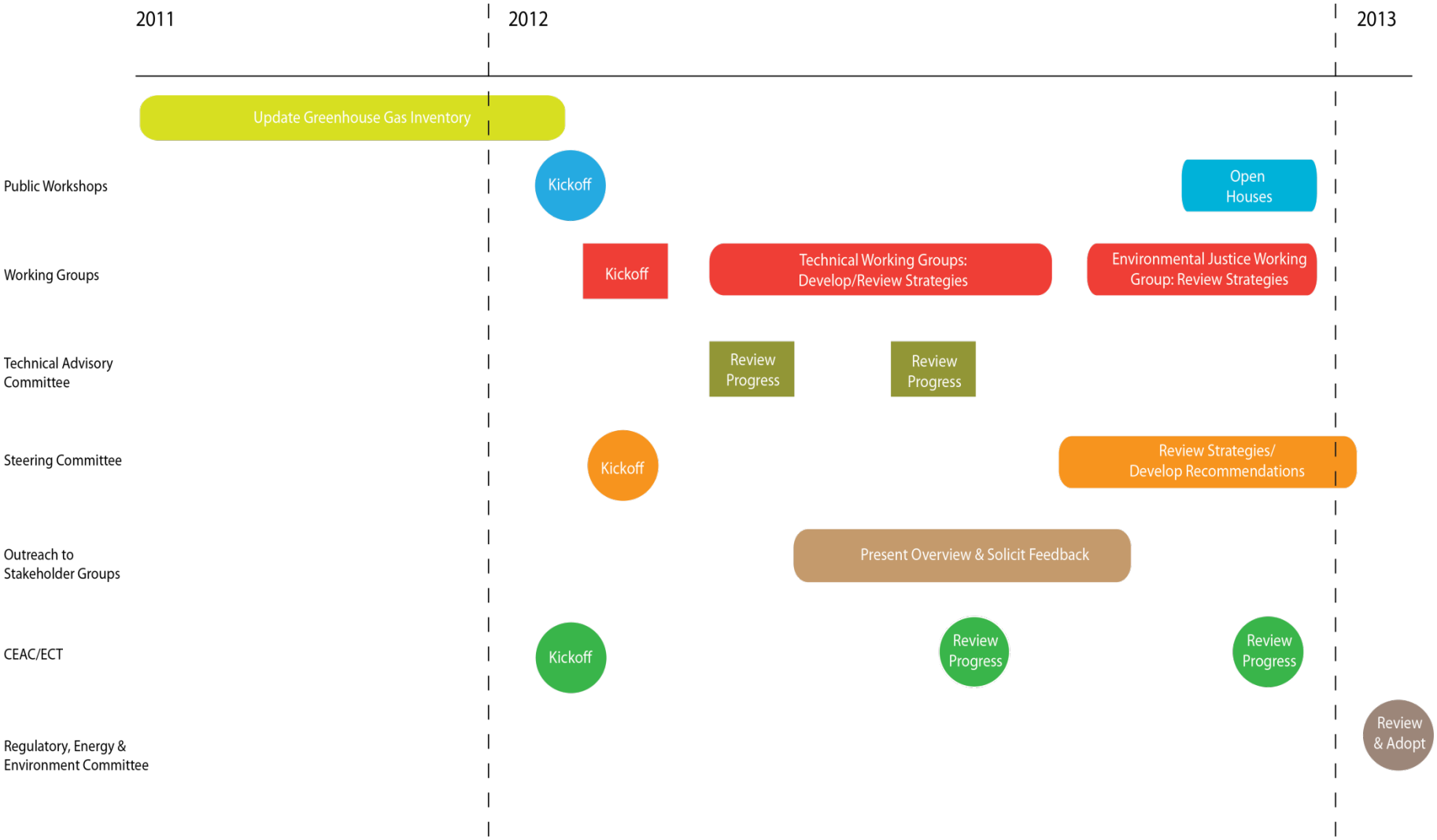
SC #3 — **December**

- Review public comment
- Environmental Justice review

SC #4 — **January**

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

Climate Action Plan Timeline



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PUBLIC HEALTH IMPACTS

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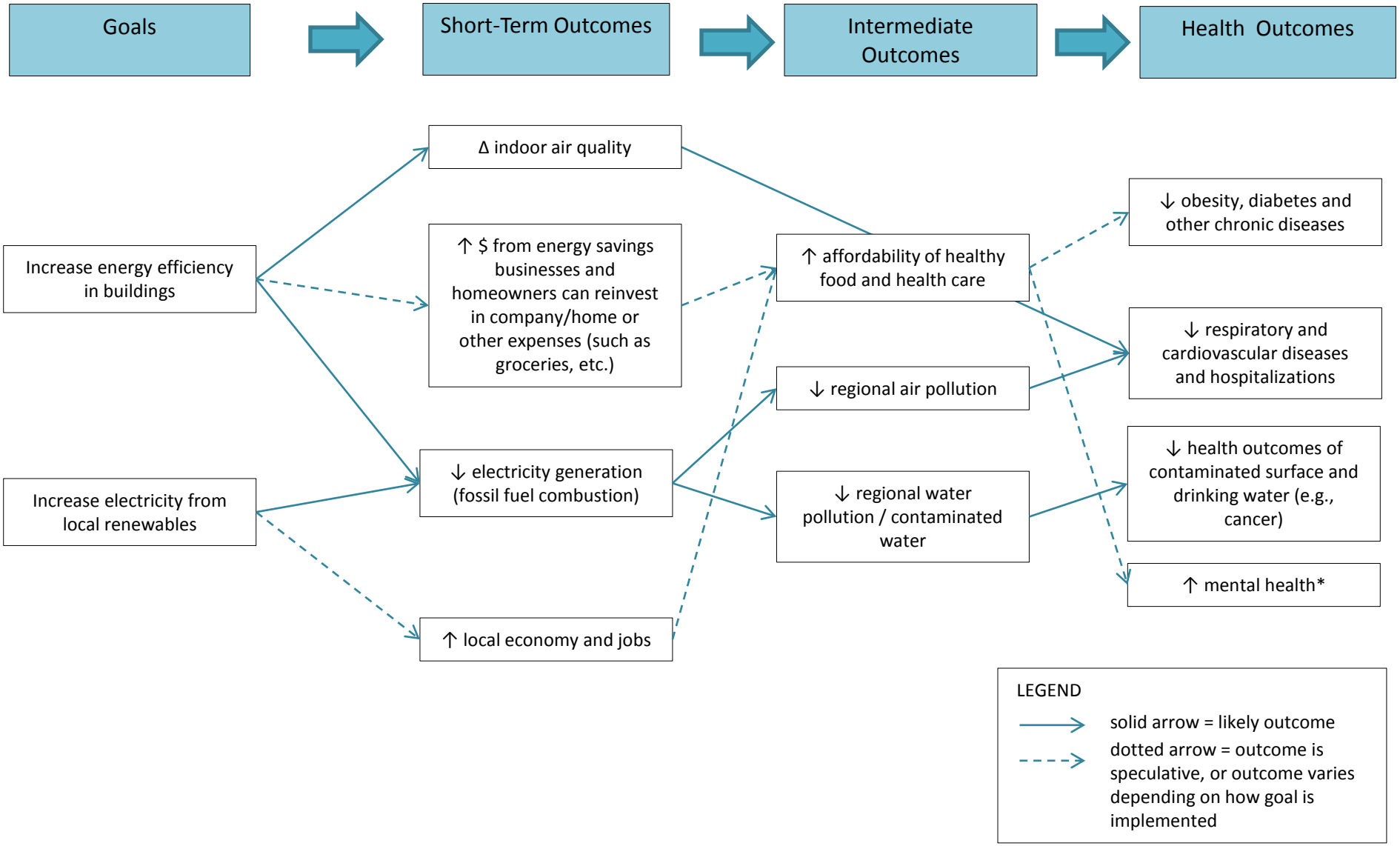
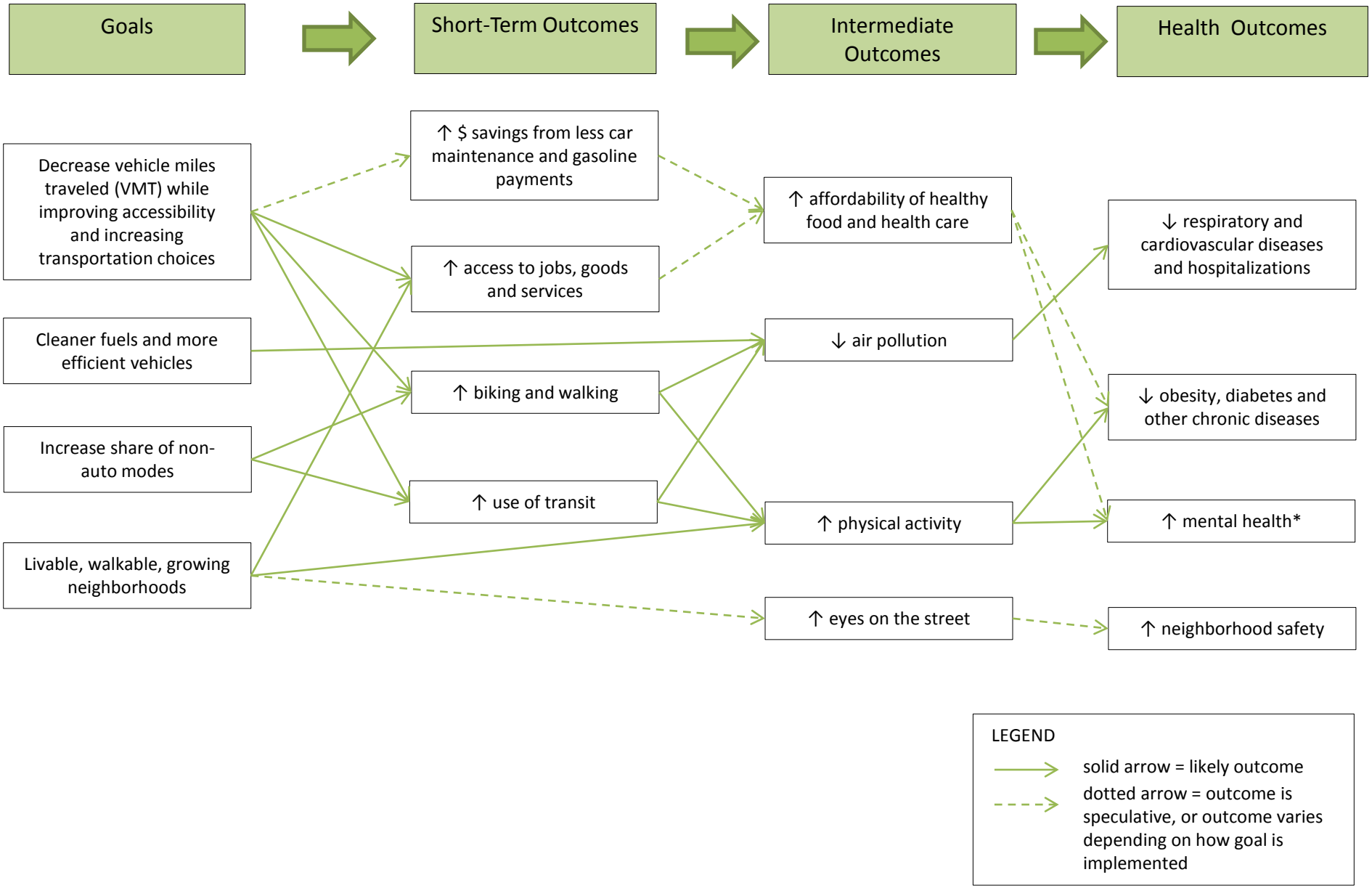
Buildings and Energy goals



**** Impacts of mental health includes:*** *stress, depression, stress-related illness, increased inflammatory response, decreased immune response, substance abuse, decreased lifespan*

Note - Δ asserts that impacts could be positive or negative. For example, energy efficient buildings may decrease mold or radon exposure if properly ventilated; however, energy efficient buildings without proper ventilation may promote mold growth and decrease indoor air quality.

Transportation and Land Use goals



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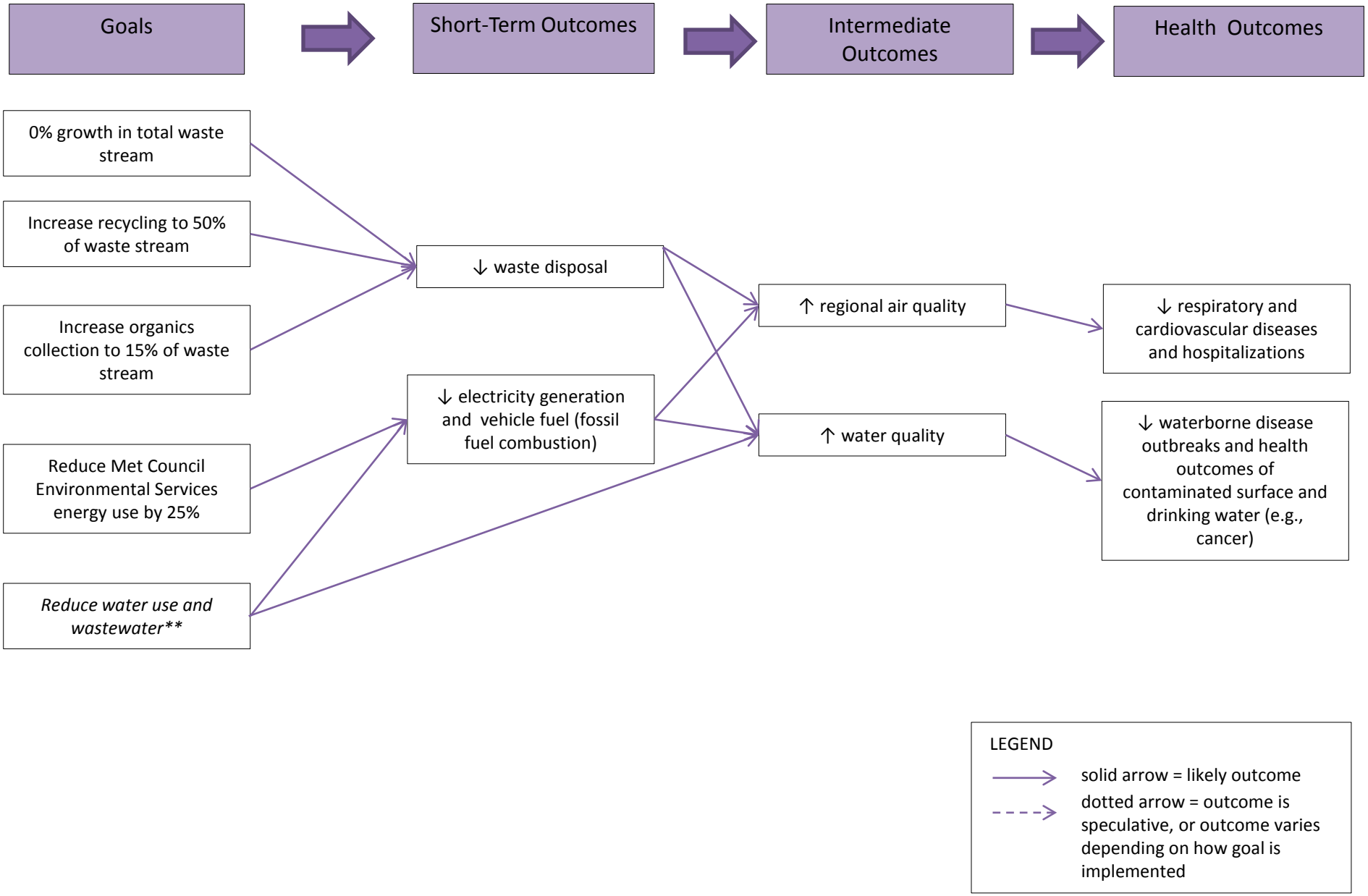
Waste and Recycling goals



***** Goal proposed by MDH based on 5th section of Waste and Recycling strategies, "Reduce wastewater treatment impacts"***

Summary Impacts Table

Health Outcome/ Determinant	Impact (Direction and Extent)	Likelihood	Distribution	Quality of Evidence
Buildings and Energy				
▪ Obesity, diabetes and other chronic diseases	▼	Possible	▪ Low-income residents impacted more	*
▪ Respiratory and cardiovascular diseases and hospitalizations	▼▼▼	Likely	▪ Residents living near power plants impacted more	***
▪ Negative health outcomes of contaminated surface water and drinking water (e.g., cancer)	▼▼	Likely	▪ Residents living near power plants impacted more	***
▪ Mental health	▲	Possible	▪ Low-income residents impacted more	**
Transportation and Land Use				
▪ Respiratory and cardiovascular diseases and hospitalizations	▼▼▼▼	Likely	▪ Residents located near major roads impacted more	***
▪ Obesity, diabetes and other chronic diseases	▼▼▼	Likely	▪ Residents using non-auto mode share impacted more	***
▪ Mental health	▲▲	Possible	▪ Residents using non-auto mode share impacted more	**
▪ Neighborhood safety	▲▲	Possible	▪ Residents of livable, walkable neighborhood impacted more	**
Waste and Recycling				
▪ Respiratory and cardiovascular diseases and hospitalizations	▼▼	Possible	▪ Residents living near landfills or power plants impacted more	**
▪ Waterborne disease outbreaks and health outcomes of contaminated surface and drinking water (e.g., cancer)	▼▼	Possible	▪ Residents living near landfills impacted more	**

Summary Impacts Table: Notes

Direction and Extent of Impact (combine direction, magnitude and severity into one measure):

Severe impact on many = ▲▲▲▲ or ▼▼▼▼

Severe impact for few or small impact on many = ▲▲▲ or ▼▼▼

Moderate impact on medium number = ▲▲ or ▼▼

Small impact on few = ▲ or ▼

Uncertain = ?

No effect = "No effect" or "None"

Likelihood of Impact:

Likely = it is likely that impacts will occur as a result of the proposal

Possible = it is possible that impacts will occur as a result of the proposal

Unlikely = it is unlikely that impacts will occur as a result of the proposal

Uncertain = it is unclear if impacts will occur as a result of the proposal

Distribution of Impact:

Name subpopulation impacted more (e.g., "low-income residents impacted more"; "Blacks impacted more") or "equal impacts"

Strength/Quality of Evidence:

*** (e.g., many strong studies)

** (e.g., one or two good studies)

* (e.g., no clear studies, but generally consistent with principles of public health)

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BREAK!

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IMPLEMENTATION GOALS

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

While meeting emissions reduction targets, Minneapolis shall:

- **Prioritize high impact, short timeframe, cost effective strategies.** Recent science suggests that immediate action (within 5 – 10 years) is necessary to bring down emissions to avoid severe impacts from climate change. This plan will prioritize strategies for implementation that may have the greatest impact on emissions in the short term, acknowledging that the greatest number of co-benefits might not be immediately realized.
- **Seek strategies with multiple benefits with an understanding that there may be tradeoffs.** Wherever possible, implement strategies that provide a range of co-benefits (e.g., job creation, cost savings to government or residents, improved public health, or broader awareness of climate impacts). Achieving one benefit may come with tradeoffs: a strategy may reduce greenhouse gas emissions and create new jobs, but require a significant up-front monetary investment. Policy makers and the community will need to carefully weigh these multiple benefits and costs while moving Minneapolis towards its emissions reduction targets.
- **Avoid creating disparate impacts across Minneapolis communities and target strategies to communities that could most benefit.** Climate action strategies should be developed that avoid negatively impacting communities already heavily impacted by environmental or economic strain. Strategies should also be implemented in a way to benefit those most in need.
- **Monitor progress annually and revisit goals and strategies as necessary.** The City of Minneapolis will continue to track community-wide greenhouse gas emissions and report on the implementation of climate action strategies and impacts.
- **Move beyond mitigation and begin building resiliency to climate changes and impacts.** This Climate Action Plan deals primarily with reducing emissions to mitigate climate change. However, we know that changes to the climate are already being felt in Minnesota. Minneapolis should explore the potential impacts and responses and build resiliency in local government and the community.

Minneapolis Climate Action Plan

STRATEGY DETAIL

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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.

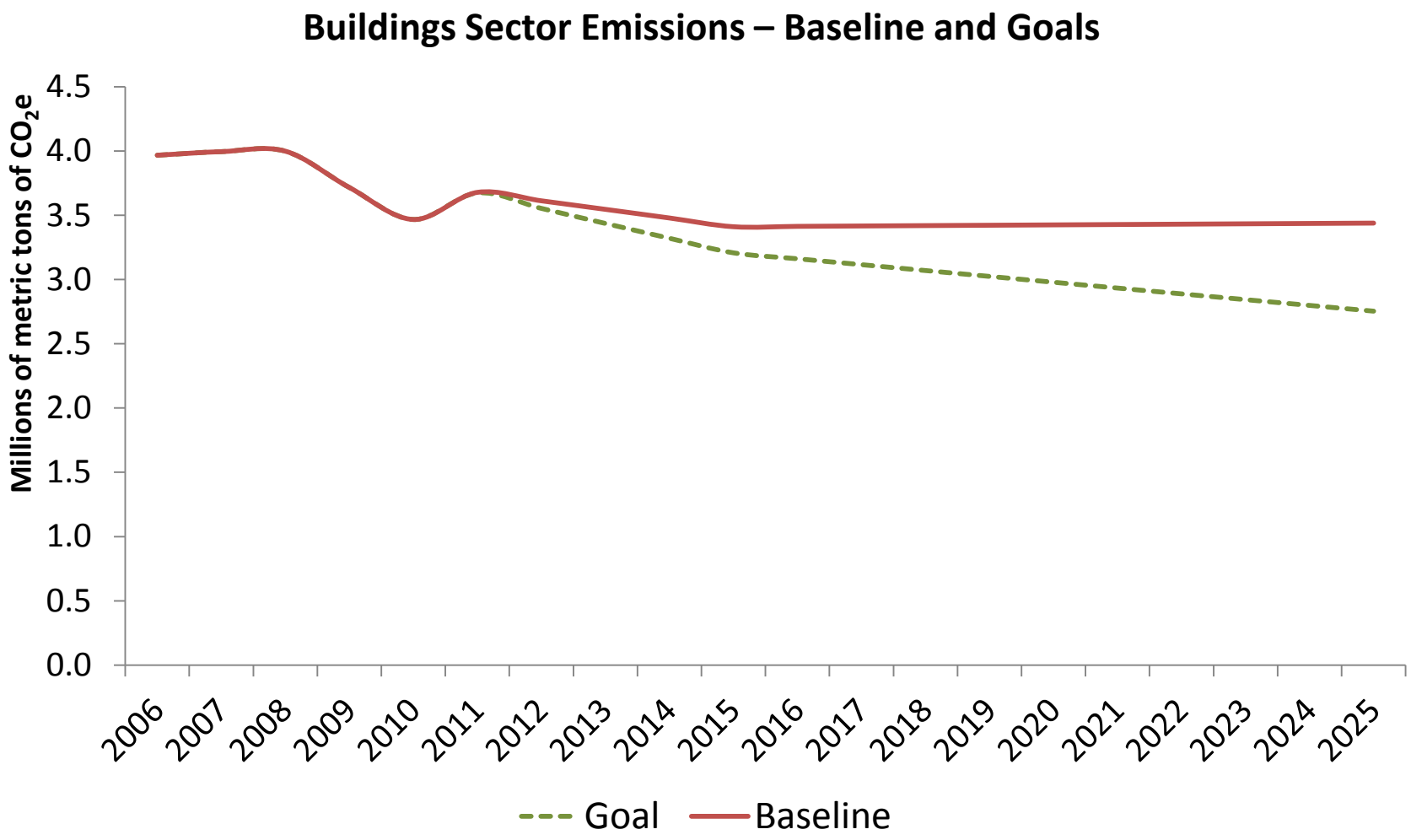
3. Increase **electricity from local & directly purchased renewables (like WindSource) from 1.5 to 5 percent** of the total consumed by 2025.

Buildings & Energy

STRATEGY AREAS

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

Buildings & Energy



- CC1. Launch a City initiative to make Minneapolis the most energy-efficient city in America
- CC2. Ensure that City facilities are models of energy-efficiency and renewable energy technology
- CC9. Develop tools to finance energy efficiency and renewable energy retrofits for commercial and residential buildings that have low barriers to entry and limited risk for local government
- CC12. Identify opportunities to increase conservation efforts within the downtown district heating and cooling system and make the system more efficient using technologies like combined heat and power
- I1. Continue to support a loan program to help businesses including industrial companies to become more energy efficient and expand their businesses
- RE2. Investigate the feasibility of large-scale renewable energy purchasing for the municipal government and/or residents

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 and walkable neighborhoods** that meet the needs of all Minneapolis residents.

3. **Grow jobs and housing** to support a growing economy and non-auto transportation modes.

4. Increase the share of Minneapolis residents and workers choosing **non-auto modes** for commuting and other trips.

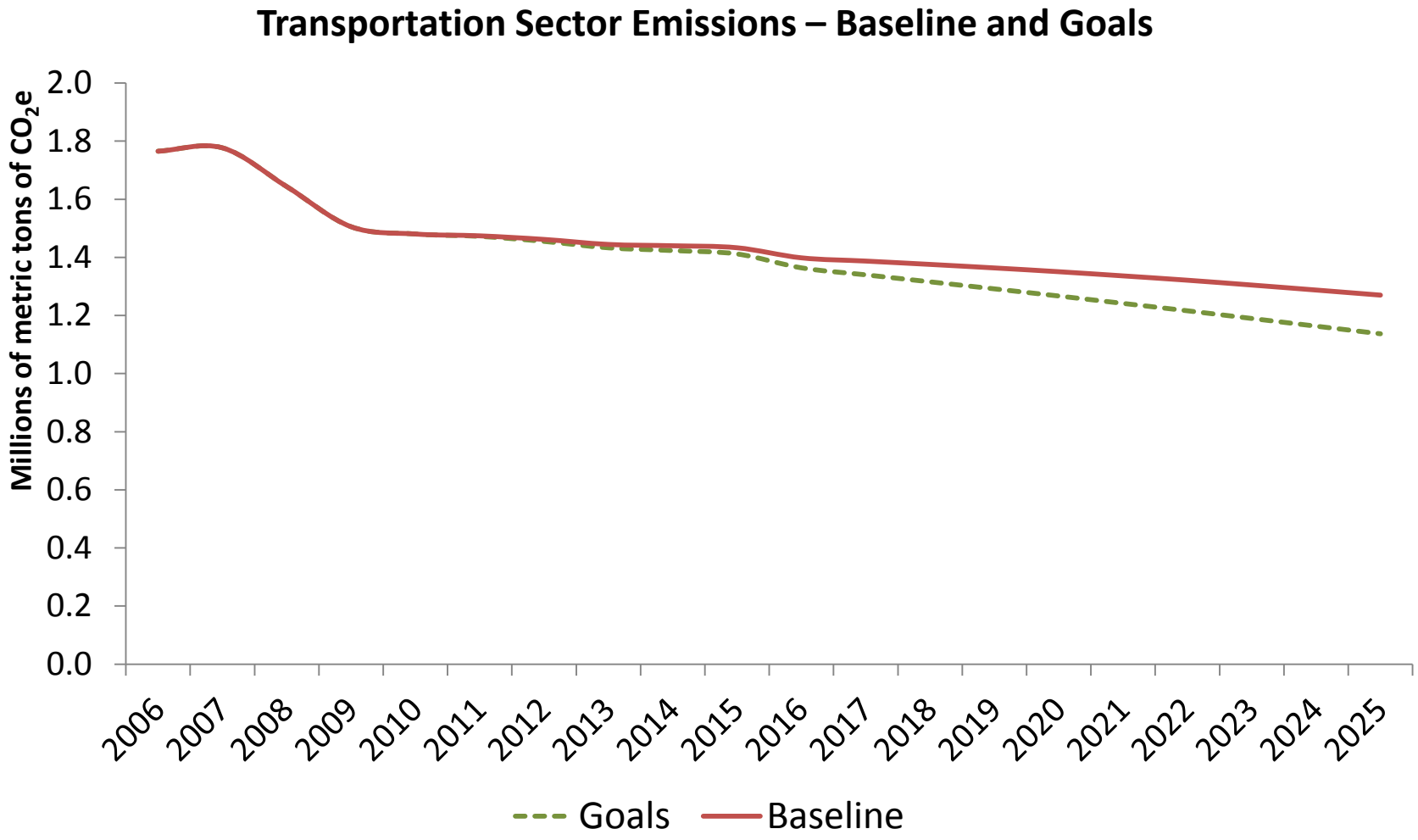
5. Through local action and federal and state legislation, support a transition to **cleaner fuels and more efficient vehicles**.

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



- PLU2. Plan for and encourage “complete neighborhoods”
- TCS1. Support the Metropolitan Council’s goal of doubling regional transit ridership by 2030
- AT1. Achieve the City’s adopted targets for bicycle mode share and bicycle counts and adopt a stretch goal of 15 percent for 2025
- TDM1. Support the Downtown Transportation Management Organization’s goal to reduce 4.8 million drive alone trips by 2015
- TDM4. Encourage large employers to embrace alternative work arrangements for employees
- CF4. Support the proposed Federal fuel efficiency improvements
- CF7. Support the development of alternative jet fuels and ensure MSP is prepared for their increased use
- O1. Continue to shift to LED streetlights

Waste & Recycling

GOALS

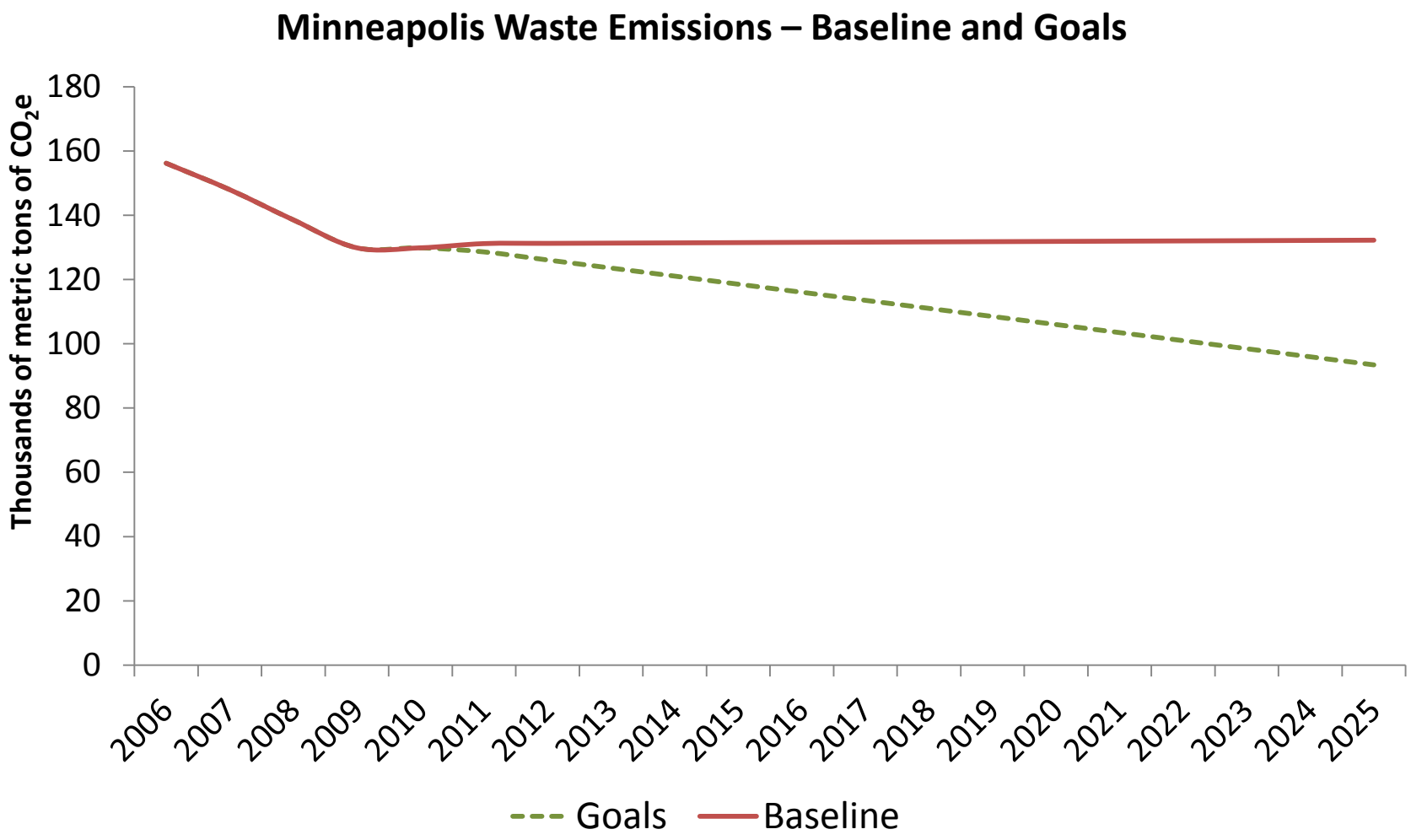
1. Achieve a **zero percent growth rate** in the total waste stream from 2010 levels.
2. **Recycle 50 percent of the waste stream** (commercial and residential) in Minneapolis by 2025.
3. **Increase organics collection to 15 percent** of the waste stream by 2025.
4. Reduce the **flow of wastewater** from Minneapolis and support efforts to make wastewater treatment **more energy efficient**.
5. **Increase awareness of the lifecycle impacts of products** to address GHGs occurring outside the community.

Waste & Recycling

STRATEGY AREAS

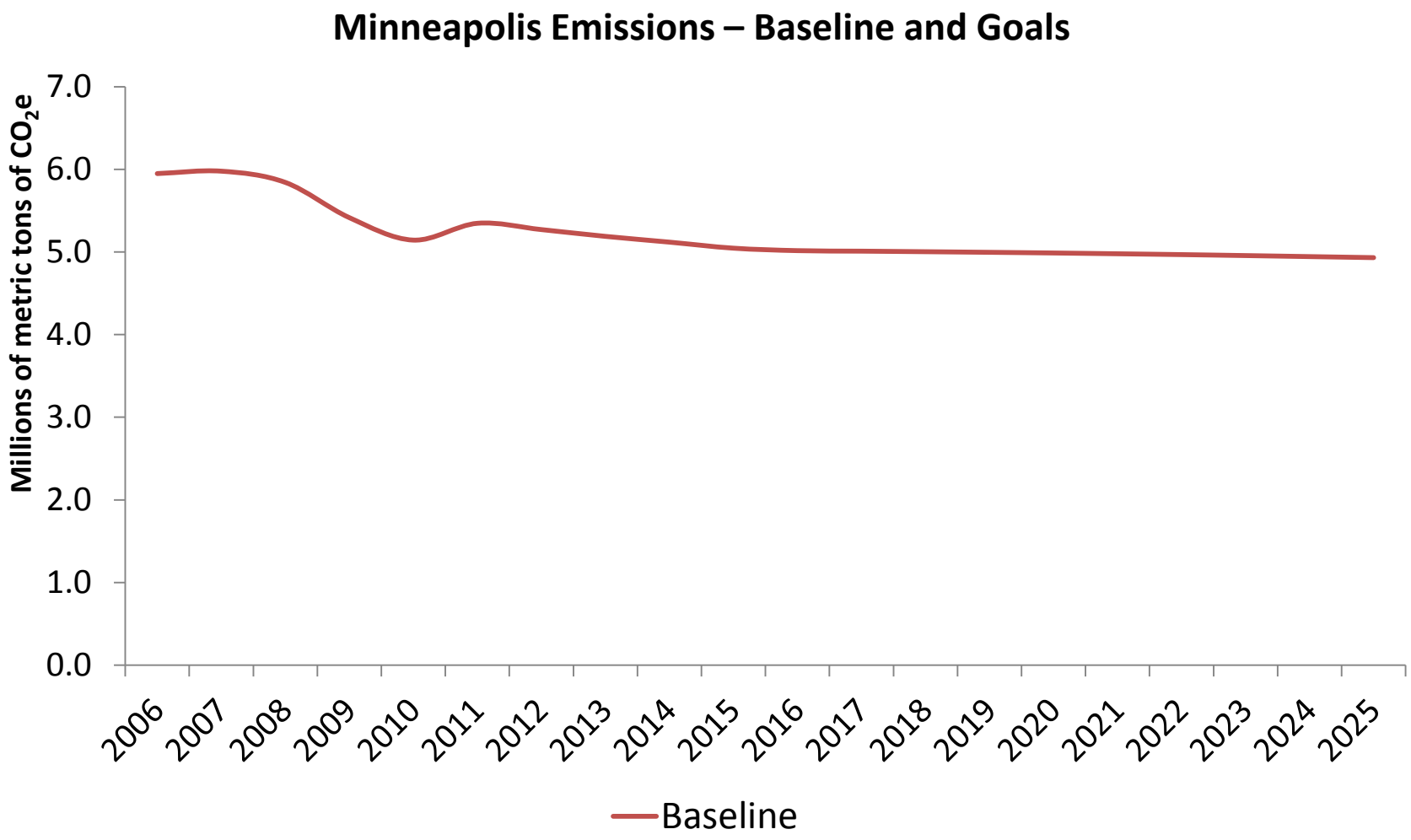
1. Waste Reduction
2. Recycling
3. Organics
4. Product Lifecycle
5. Wastewater Treatment

Waste & Recycling

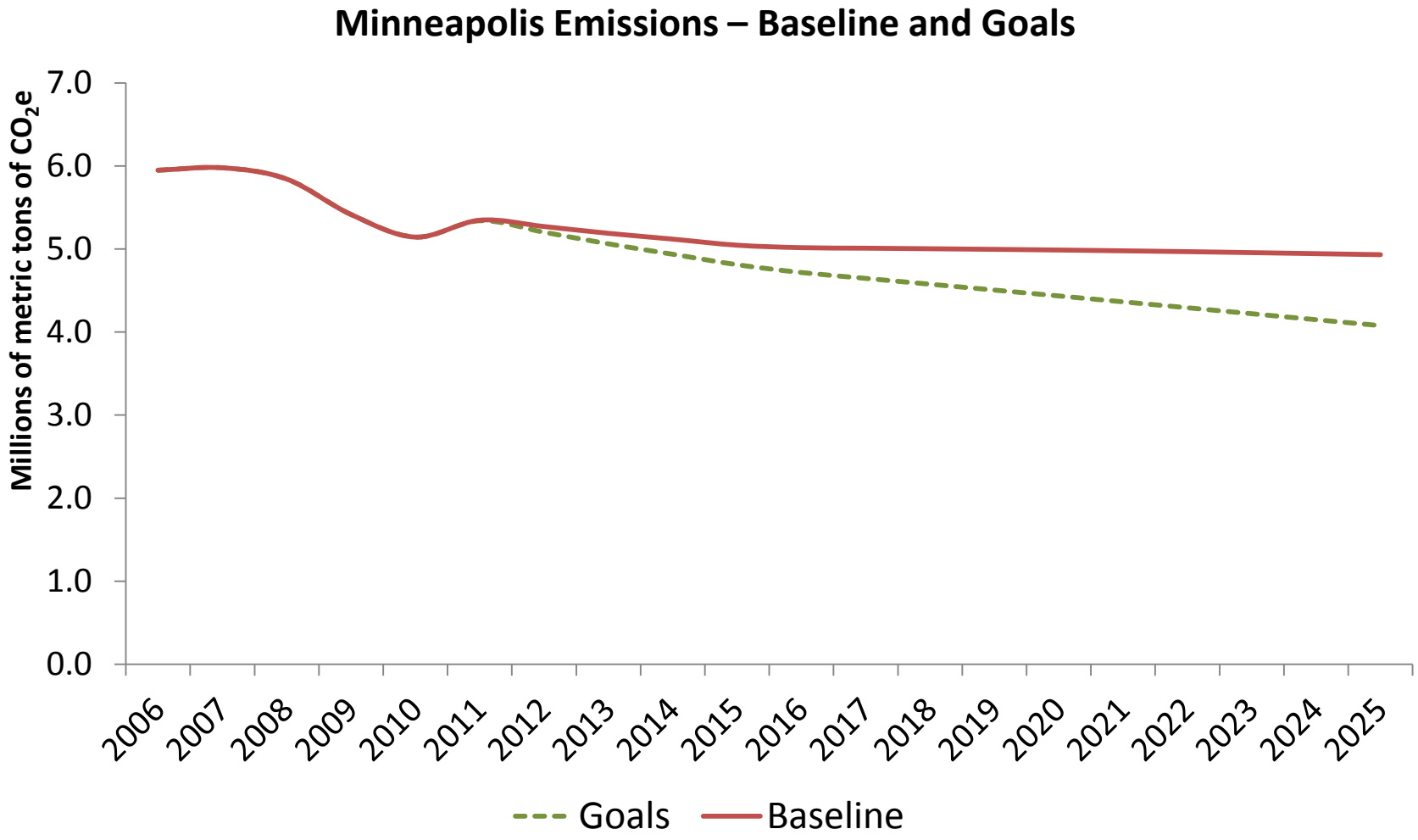


- R1. Support implementation of a single-sort recycling program for curbside pickup
- R4. Enforce the commercial recycling ordinance and undertake an educational campaign to expand recycling options in multi-family housing
- R6. Work with the County to increase the rate of recycling of construction and demolition debris in the city
- O2. Based on the results of pilot programs, consider expanding the residential organics collection program to more Minneapolis neighborhoods each year

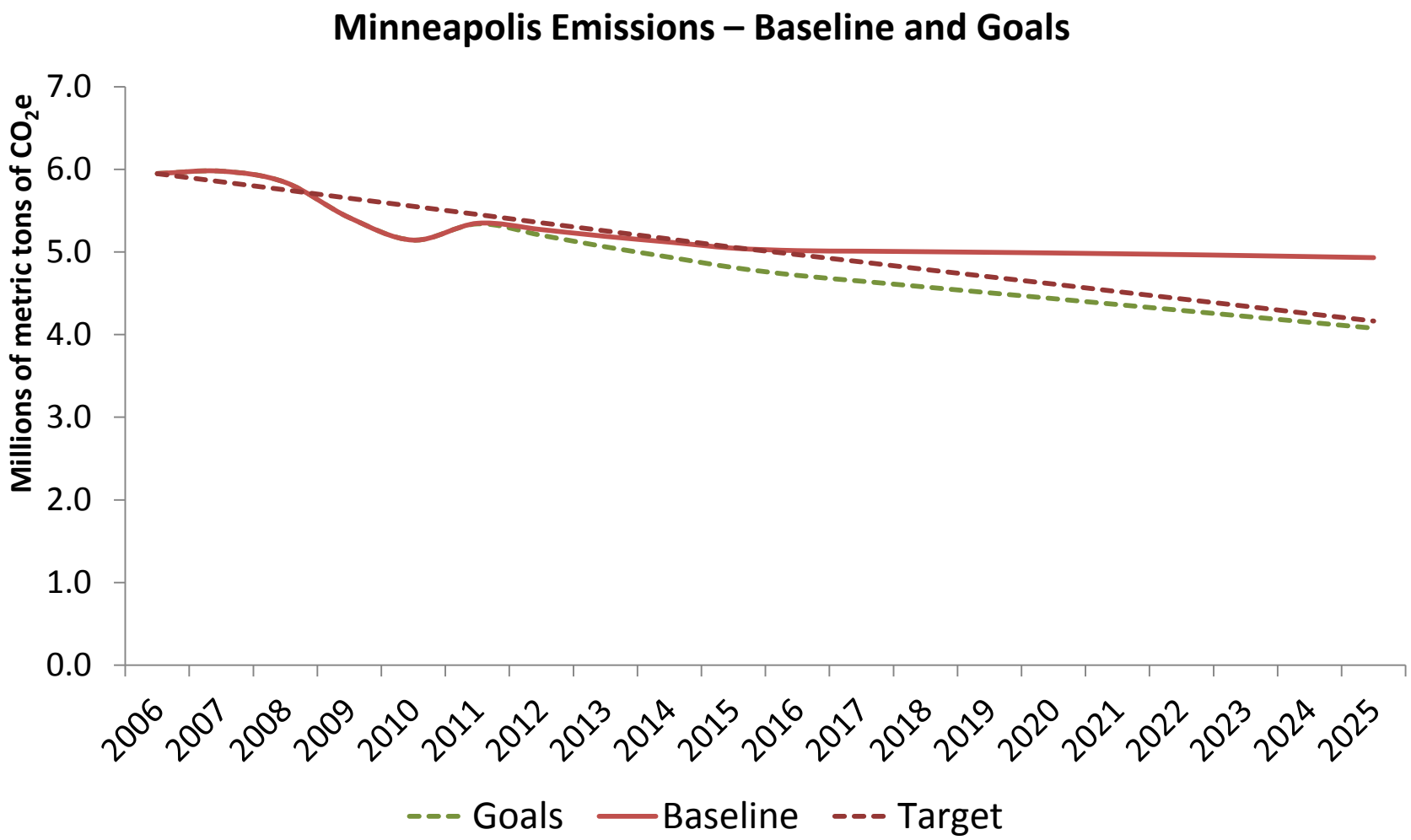
Climate Action Plan Impact



Climate Action Plan Impact



Climate Action Plan Impact



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NEXT STEPS

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Next Steps

- Next meeting:
  - Early December (6th?)
- Staff will prepare for public outreach in November
- Environmental Justice Working Group
  - Meeting #2: October 30, 2:30 p.m.

Thank you!

www.minneapolismn.gov/sustainability/climate

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