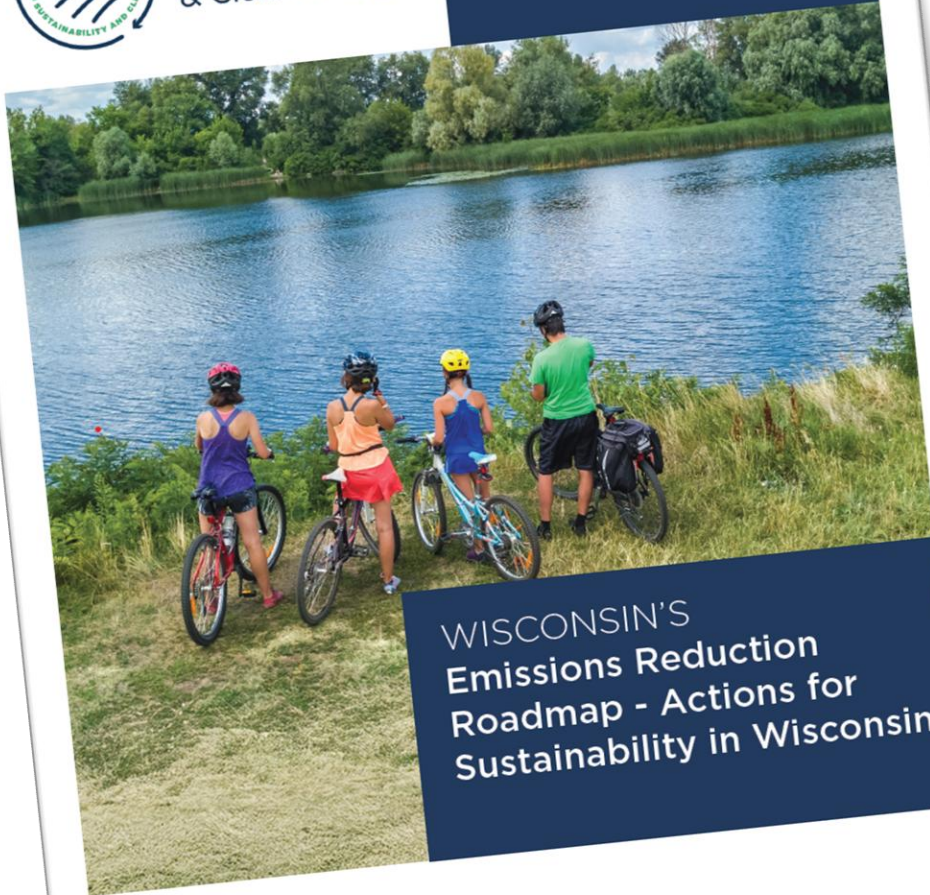




WISCONSIN OFFICE OF  
Sustainability  
& Clean Energy



WISCONSIN'S  
Emissions Reduction  
Roadmap - Actions for  
Sustainability in Wisconsin

JUNE 2026



# WISCONSIN'S EMISSIONS REDUCTION ROADMAP: AGRICULTURE

09.14.2026

# WEBINAR OVERVIEW

- Climate Action Planning Review
- What is Wisconsin's Emissions Reduction Roadmap?
- Agriculture Sector Deep Dive
- Webinar Series
- Q&A





# MEET THE OSCE TEAM

WISCONSIN OFFICE OF SUSTAINABILITY & CLEAN ENERGY



**Maria Redmond**  
Director



**Caity Carmody**  
CPRG Technical  
Coordinator and  
Analyst



**Eleanor Gagnon**  
CPRG Outreach  
and Engagement  
Specialist



**Eneida Hysi**  
CPRG Grants  
Specialist



**Winston  
Thompson**  
Lead-by-Example  
Research Analyst



**Dylan Stone**  
Climate and Clean  
Energy Initiatives  
Coordinator



# CLEAN ENERGY AND CLIMATE ACTION POLICY & PLANNING



Executive Order  
38: Relating to  
Clean Energy

**Aug 2019**

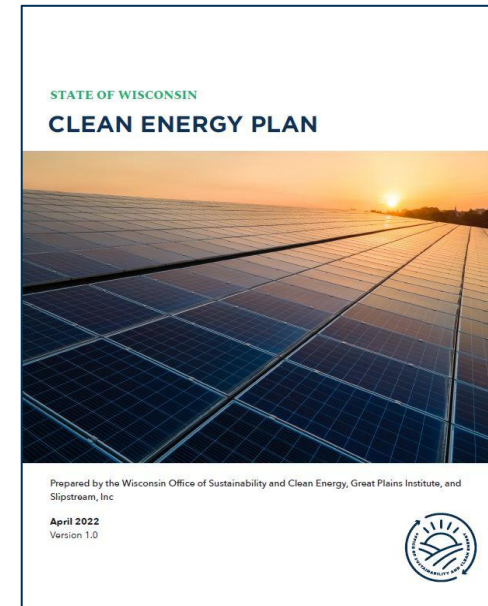


Executive Order  
52: Governor's Task  
Force on Climate  
Change

**Oct 2019**



**Dec 2020**



**Apr 2022**



Executive Order  
161: Office of  
Environmental  
Justice

**Apr 2022**



# CLEAN ENERGY AND CLIMATE ACTION POLICY & PLANNING



## Executive Order 195: Green Ribbon Commission

**Apr 2023**

### STATE OF WISCONSIN **CLEAN ENERGY PLAN** Progress Report



Prepared by the Wisconsin Office of Sustainability and Clean Energy

May 2023



**May 2023**

### Wisconsin **Emissions Reduction Roadmap**



Prepared by:  
Wisconsin Department of Administration  
Office of Sustainability and Clean Energy  
101 E Wilson St., 5th Fl.  
Madison, WI 53703  
[psc@wisconsin.gov](mailto:psc@wisconsin.gov)

**Mar 2024**

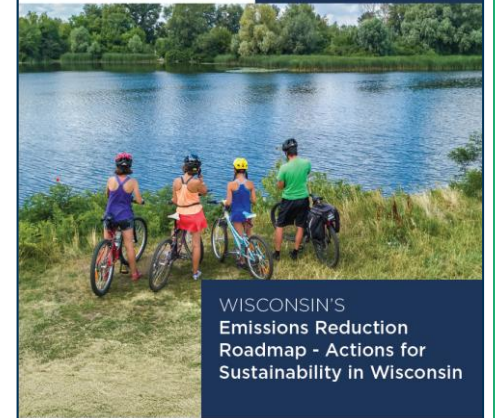
### STATE OF WISCONSIN **CLEAN ENERGY PLAN** Progress Report



Prepared by the Wisconsin Office of Sustainability and Clean Energy  
August 2024



**Aug 2024**



WISCONSIN'S  
Emissions Reduction  
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Sustainability in Wisconsin

JUNE 2026

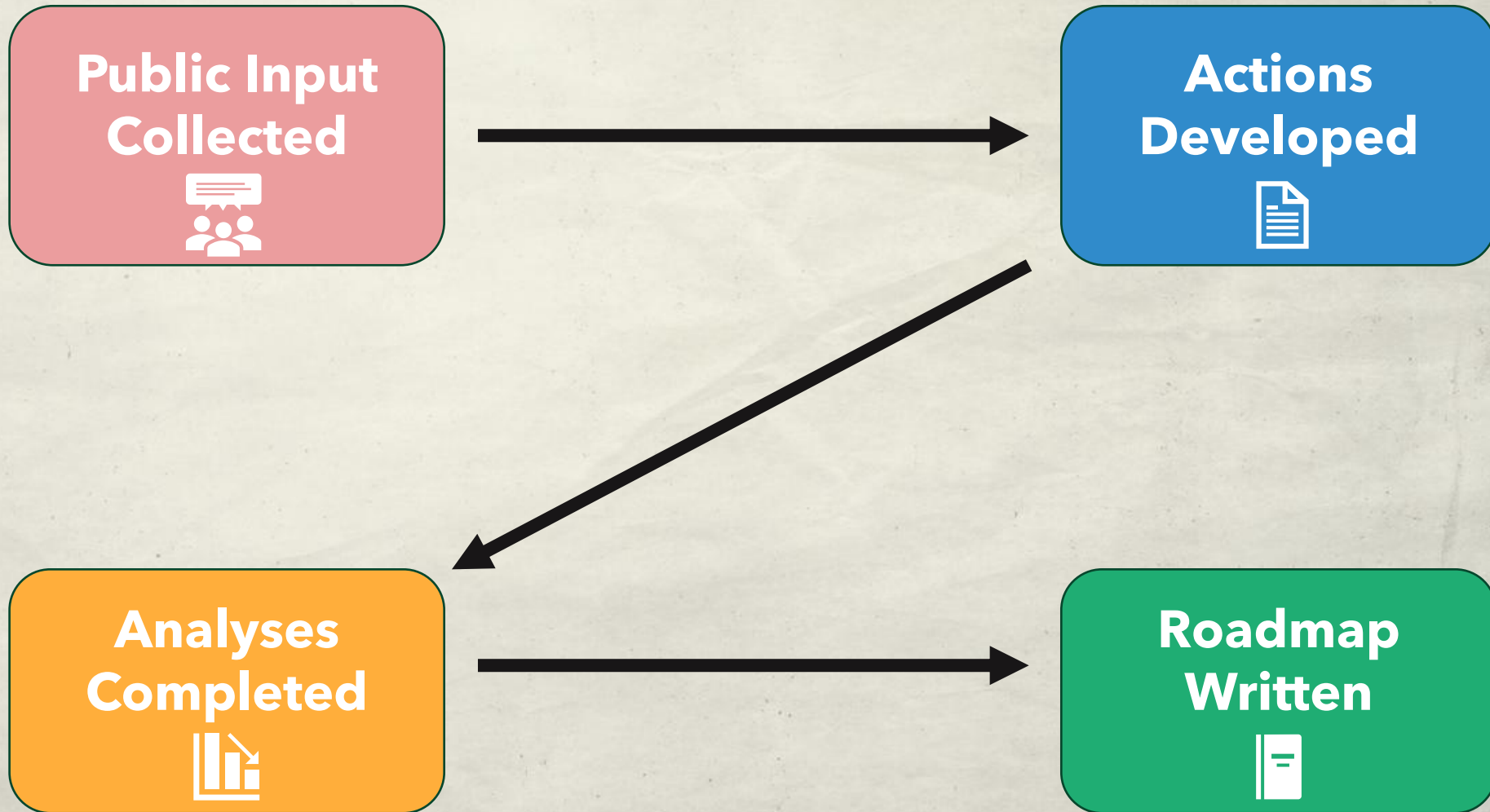
**Jun 2026**



# **ROADMAP OVERVIEW**

# WISCONSIN'S EMISSIONS REDUCTION ROADMAP

- Wisconsin's **first comprehensive climate action plan** tackling emissions reductions actions and targets in all sectors
- Built off the work done through **previous** cross-sectoral planning work and identifying **new opportunities** not previously discussed
- Primary purpose is to **develop policy and programmatic guidance** for state government
- Developed as part of the **\$3 Million** planning grant provided **to OSCE by the U.S. EPA**



# MY CLIMATE ACTION PLAN

## APPENDIX A: MY CLIMATE ACTION PLAN

Everyone has a role in implementing the state's climate action plan. The OSCE developed this tool to help you consider how you might use this plan as inspiration for your own climate action.

Think about the many hats you may wear and how they may interact with this plan. I am a...

Homeowner

Student

Employee

Landowner

Business/Non-profit owner

Salesperson

Government representative

Teacher

Parent

Other \_\_\_\_\_

Out of the economic sectors this plan covers, which ones are of most interest to you?

Agriculture

Natural and Working Lands

Buildings

Transportation

Energy Generation

Waste and Materials

Industrial Process and Facilities

Which actions seemed most relevant to your day-to-day life or work?

Considering your roles, is there anything you are currently doing that furthers these actions?

What actions could you take in your current role to make progress on one of the actions identified?

What would you like to do but need more support (financial, technical, etc.) to accomplish?

Do you know any other organizations or people working on this action? If not, where might you find other organizations or people who are working on it?

Need more information or want to share your thoughts? Visit the [OSCE.wi.gov](https://osce.wi.gov) website or email [osce@wisconsin.gov](mailto:osce@wisconsin.gov)



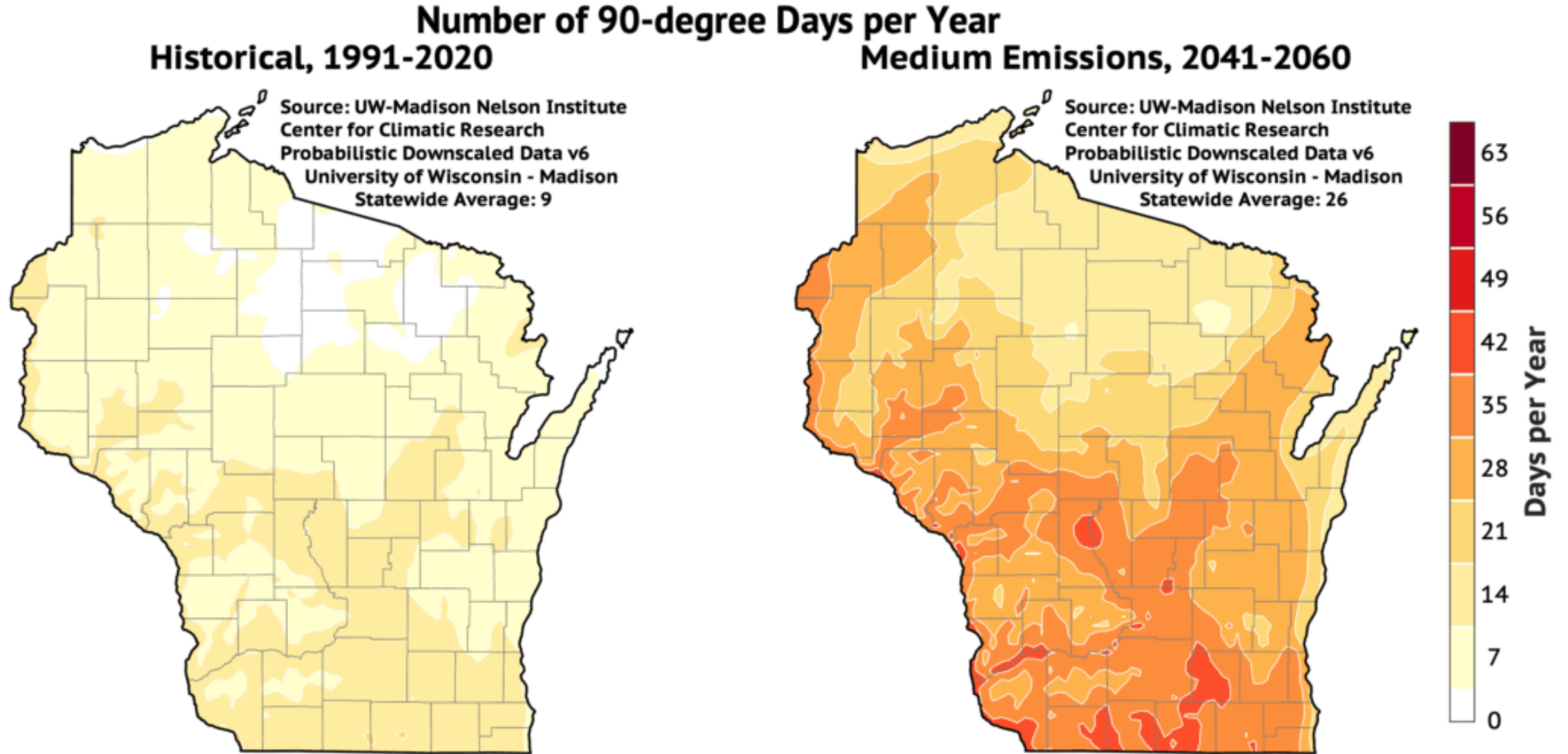
# **WHY EMISSIONS REDUCTIONS PLANNING?**

# WHAT ARE “EMISSIONS”?

From the U.S. EPA:

“Greenhouse gases **trap heat** and make the planet warmer. Human activities are responsible for almost all of the increase in greenhouse gases in the atmosphere over the last 150 years. The largest source of greenhouse gas emissions from human activities in the United States is from **burning fossil fuels** for electricity, heat, and transportation.”

# HEATING UP



Source: WICCI 2026 Assessment Report

# WHAT DOES THIS MEAN FOR OUR WEATHER?



Wetter winters and springs



More frequent and intense extreme precipitation events



Extreme nighttime heat: Muggy nighttime lows



Rapid shifts: Alternating very wet and very dry periods



Rising costs: Increasing economic losses from severe weather

Source: WICCI 2026 Assessment Report

# HOW MIGHT THIS AFFECT ME?

- **Financial risk:** Climate change could cost Wisconsin agriculture up to \$385 million annually
- **Livestock heat stress:** Rising temperatures impact dairy health and milk production
- **Worker safety:** Rising temperatures increase risks for outdoor labor
- **New pests and diseases:** Tar spot, southern rust, and frogeye leaf spot are becoming more common and causing severe crop loss
- **Water quality and availability:** Volatile rainfall disrupts water supply and increases nutrient runoff

Source: WICCI 2026 Assessment Report

# SECTORS



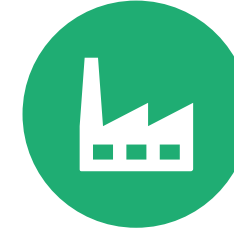
Agriculture



Commercial and  
Residential  
Buildings



Energy



Industry



Natural and  
Working Lands

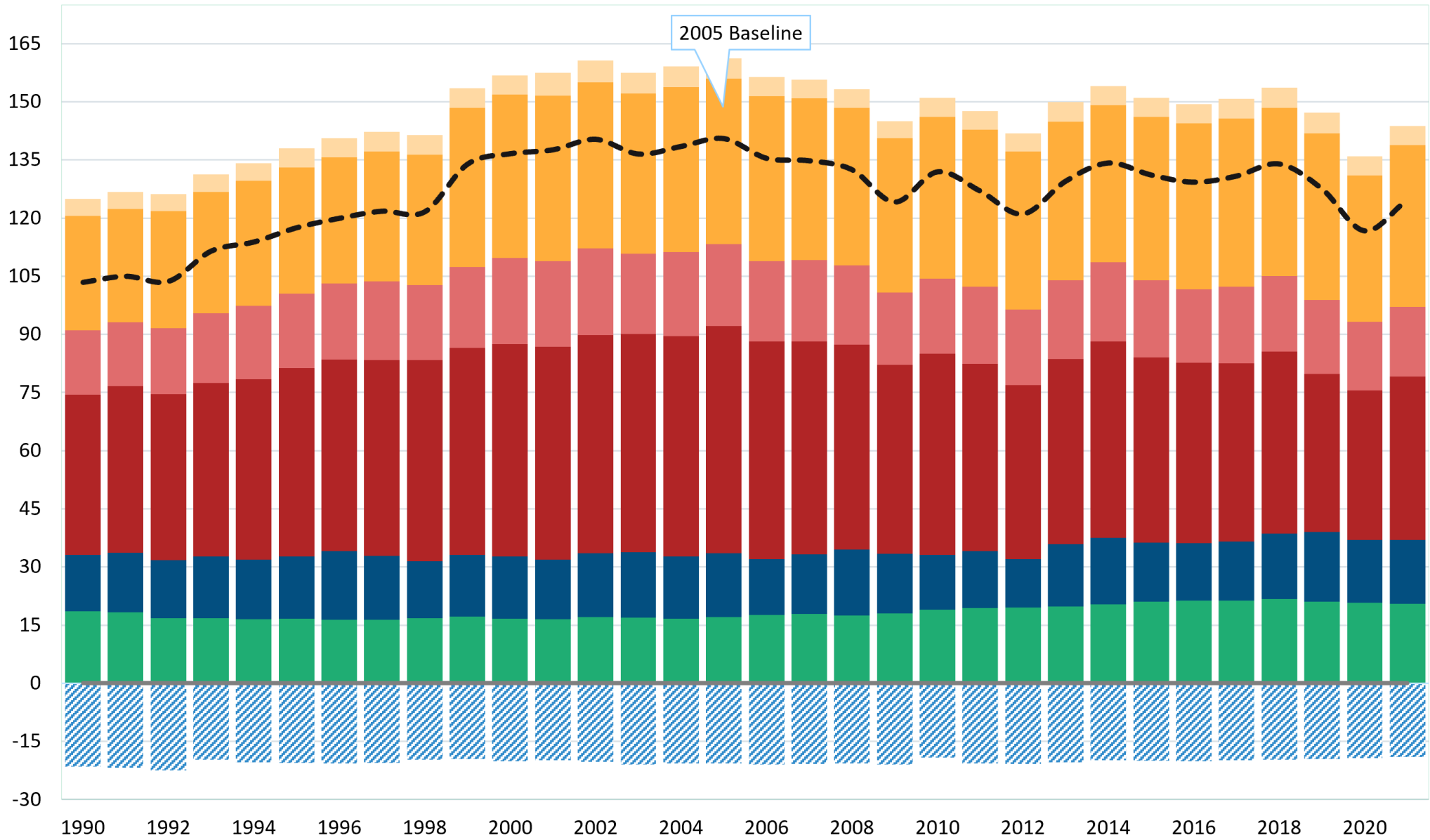


Transportation



Waste and  
Materials  
Management

Million Metric Tonnes CO2 Equivalent



- Agriculture
- Buildings
- Electricity
- Industry
- Transportation
- Waste
- Natural and Working Lands
- Zero line
- Net Emissions

# GREENHOUSE GAS INVENTORY (2024)



# **AGRICULTURE DEEP DIVE**

# AGRICULTURE

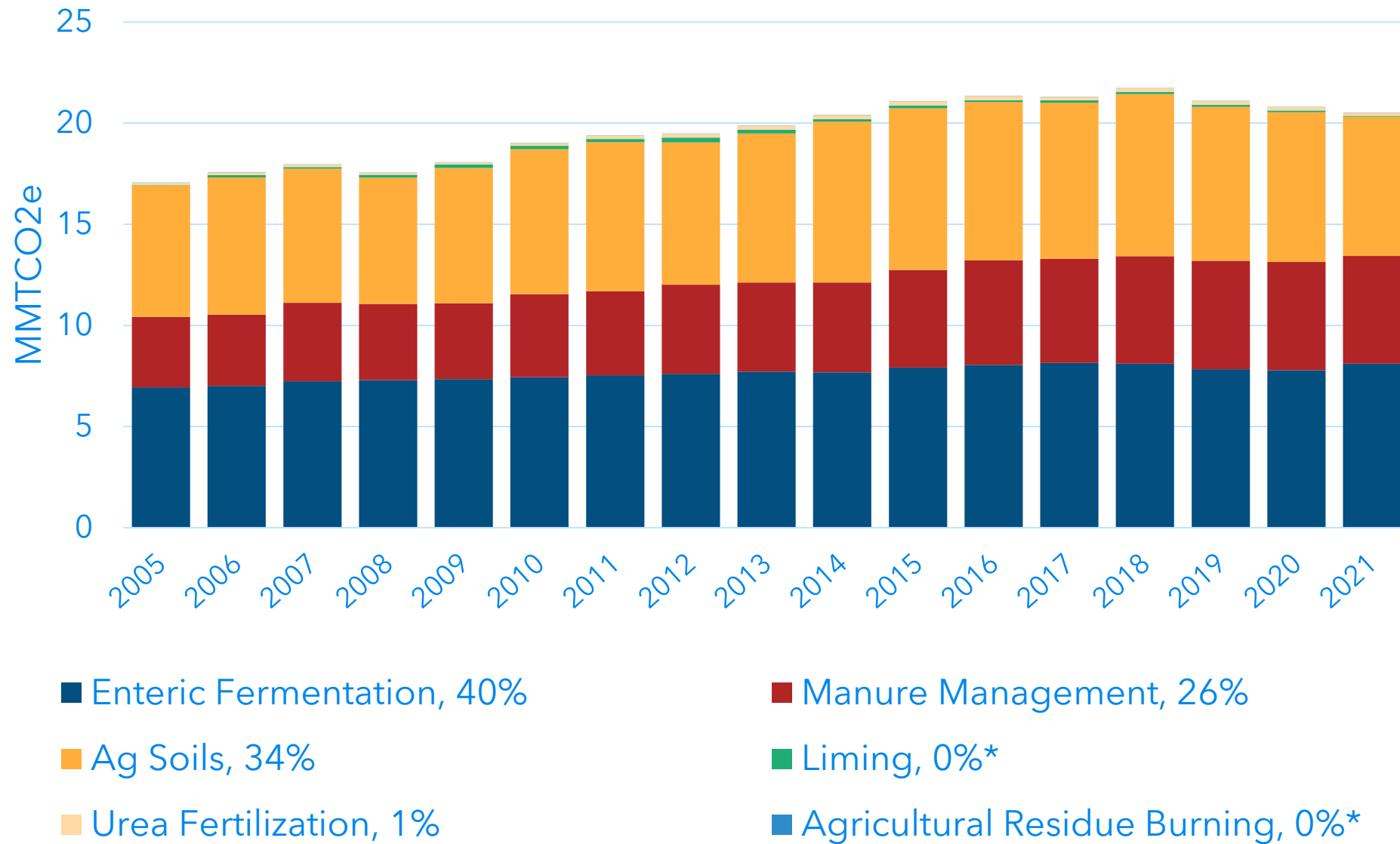


Emissions in this sector come from farming practices such as growing of crops including treatment of soil and fertilization, and emissions from livestock such as enteric fermentation and manure management.

**Percentage of total inventory in 2021:** 14%

**Biggest Opportunity:** Supporting Farm Waste Management

# AGRICULTURE EMISSIONS



Legend includes percent of 2021 total. \* indicates greater than zero rounded to zero

# ACTIONS FOR REDUCTIONS

| #   | GHG Reduction Actions                          | 2025-2030 | 2025-2050 |
|-----|------------------------------------------------|-----------|-----------|
| 1.1 | Promote soil carbon intensity best practices   | 1.62      | 4.19      |
| 1.2 | Increase funding to support local food systems | 1.90      | 4.26      |
| 1.3 | Support farm waste management                  | 2.56      | 6.72      |

Estimated reductions in MMTCO<sub>2</sub>e within the timeframe.

# 1.1 PROMOTE SOIL CARBON INTENSITY BEST PRACTICES

- No-Till Best Practices
- Fertilizer Management
- Urea Fertilizer Improvements
- Residual Burning
- Agrivoltaics



# 1.2 INCREASE FUNDING TO SUPPORT LOCAL FOOD SYSTEMS

- Reduction of Food Miles
- Improvements in Food Production

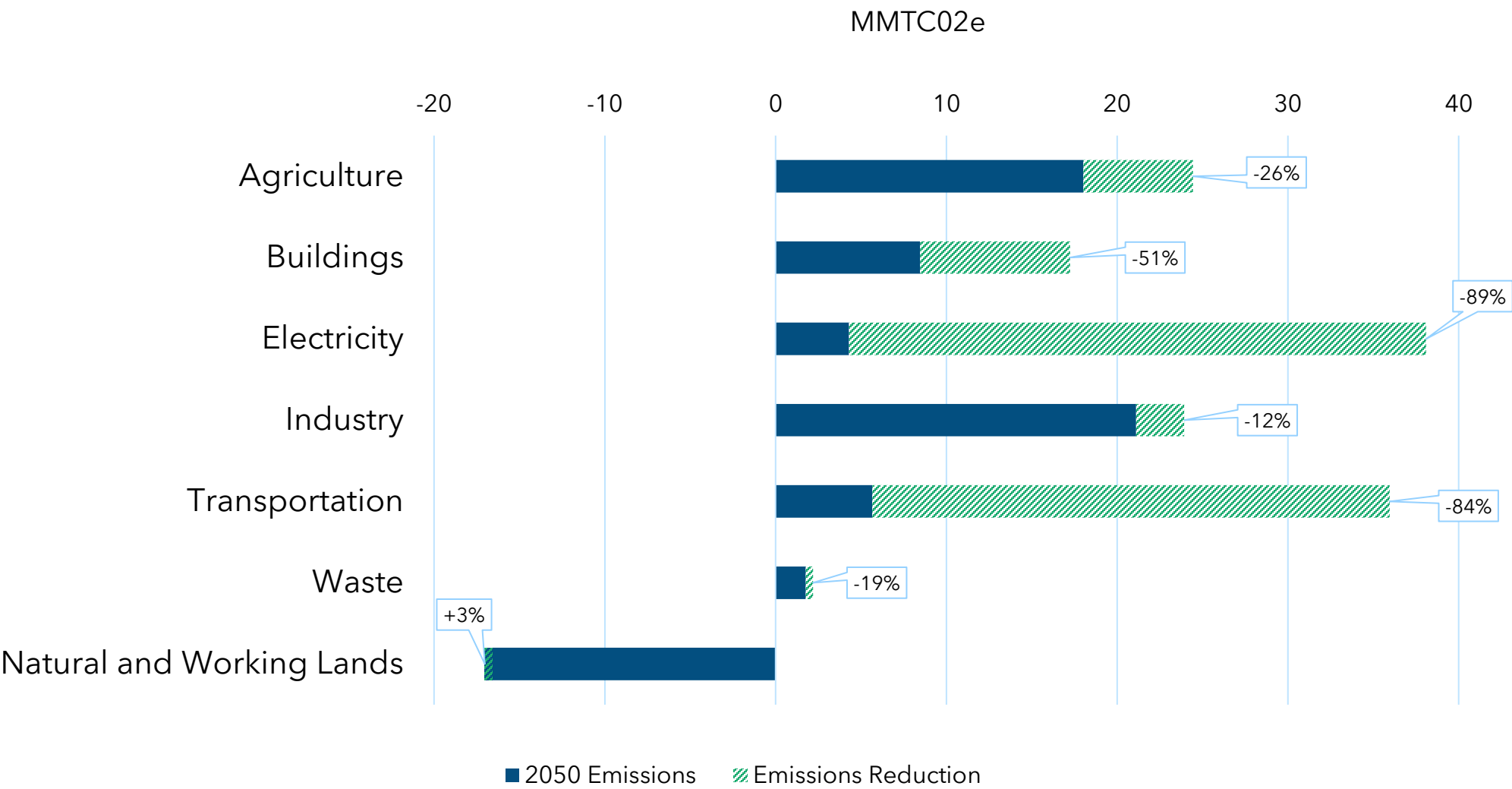


# 1.3 SUPPORT FARM WASTE MANAGEMENT

- Reduction of Enteric Fermentation
- Manure Management Best Practices



# CHANGE IN GHG EMISSIONS FROM ACTIONS 2024-2050



# CURRENT SUPPORT FOR ACTIONS

## **Wisconsin Department of Agriculture, Trade, and Consumer Protection**

- Producer-Led Watershed Protection grants
- Commercial Nitrogen Optimization Pilot Program
- Crop insurance premium rebates for planting cover crops
- Nutrient Management farmer education
- Buy Local, Buy Wisconsin Grants
- Food Security and Wisconsin Products Grant Program

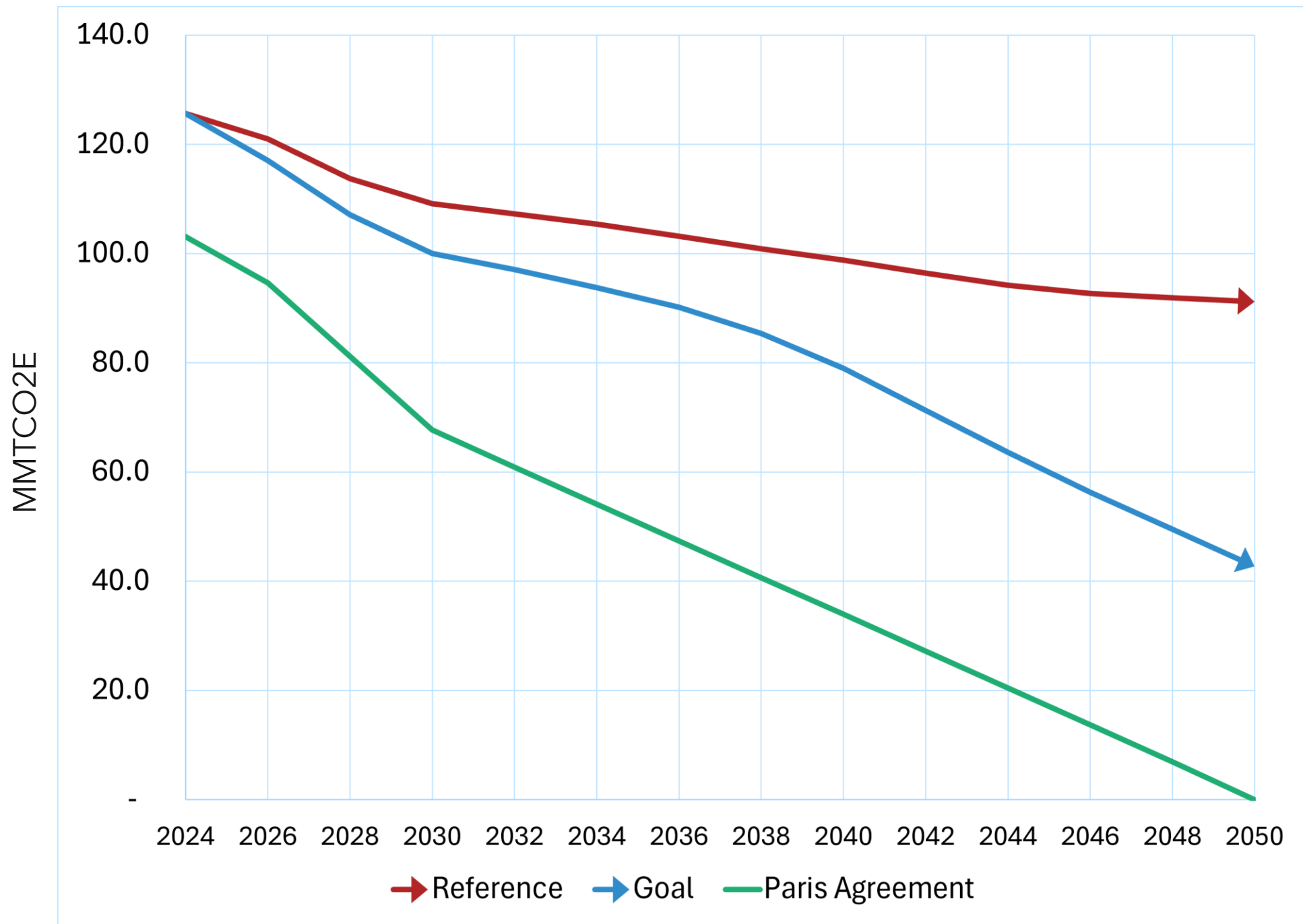
- Resilient Food Systems Infrastructure program
- Tribal Elder Community Food Box Program

## **Wisconsin Department of Health Services - Women, Infants, and Children (WIC): Farmers Market Nutrition Program**

- Senior Farmers Market Nutrition Program
- Double Up Food Dollars

## **Focus on Energy®**

- Utility Ratepayer Funded Programs - Agribusiness
- Feasibility Studies for Biogas and Biomass Projects



# EMISSIONS PROJECTIONS

# RESOURCES

- Columbia Climate School, [How Green is Local Food](#)
- DATCP, [Producer Led Watershed Protection Groups](#)
- DATCP, [Nutrient Management](#)
- EPA, [Practices to Reduce Methane Emissions from Livestock Manure Management](#)
- NREL, [Agrivoltaics](#)
- NREL, [Pathways for Agricultural Decarbonization in the United States](#)
- Science Direct, [Improved Nitrogen Fertilizer Management Reduces Nitrous Oxide Emissions in a Northern Prairie Cropland](#)
- UC Davis, [Feeding Grazing Cattle Seaweed Cuts Methane Emissions by Almost 40%](#)
- USDA, [No-Till Farming for Climate Resilience](#)
- WICCI, [Agriculture Working Group](#)



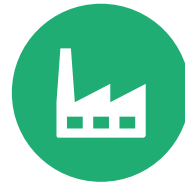
**Agriculture**  
Sep. 14, 630-730PM



**Commercial & Residential Buildings**  
Sep. 21, 630-730PM



**Energy**  
Sep. 28, 630-730PM



**Industry**  
Oct. 05, 630-730PM



**Natural and Working Lands**  
Oct. 12, 630-730PM



**Transportation**  
Oct. 19, 630-730PM



**Waste & Materials Management**  
Nov. 9, 630-730PM



# THANK YOU!

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Contact us: [osce@wisconsin.gov](mailto:osce@wisconsin.gov) or [OSCE.wi.gov](http://OSCE.wi.gov)

