



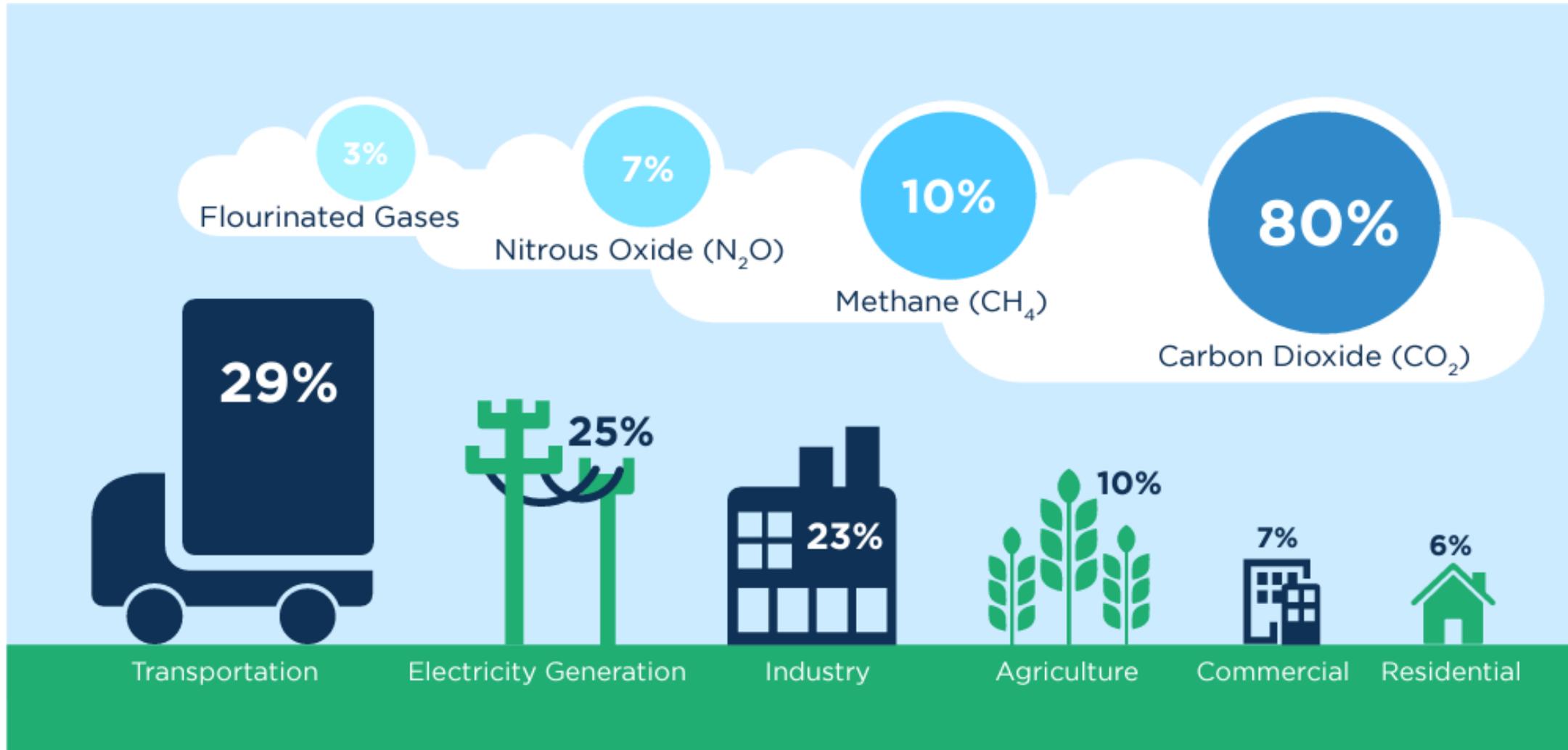
WISCONSIN OFFICE OF  
Sustainability  
& Clean Energy

**STATE OF WISCONSIN**

# **CLEAN ENERGY PLAN**

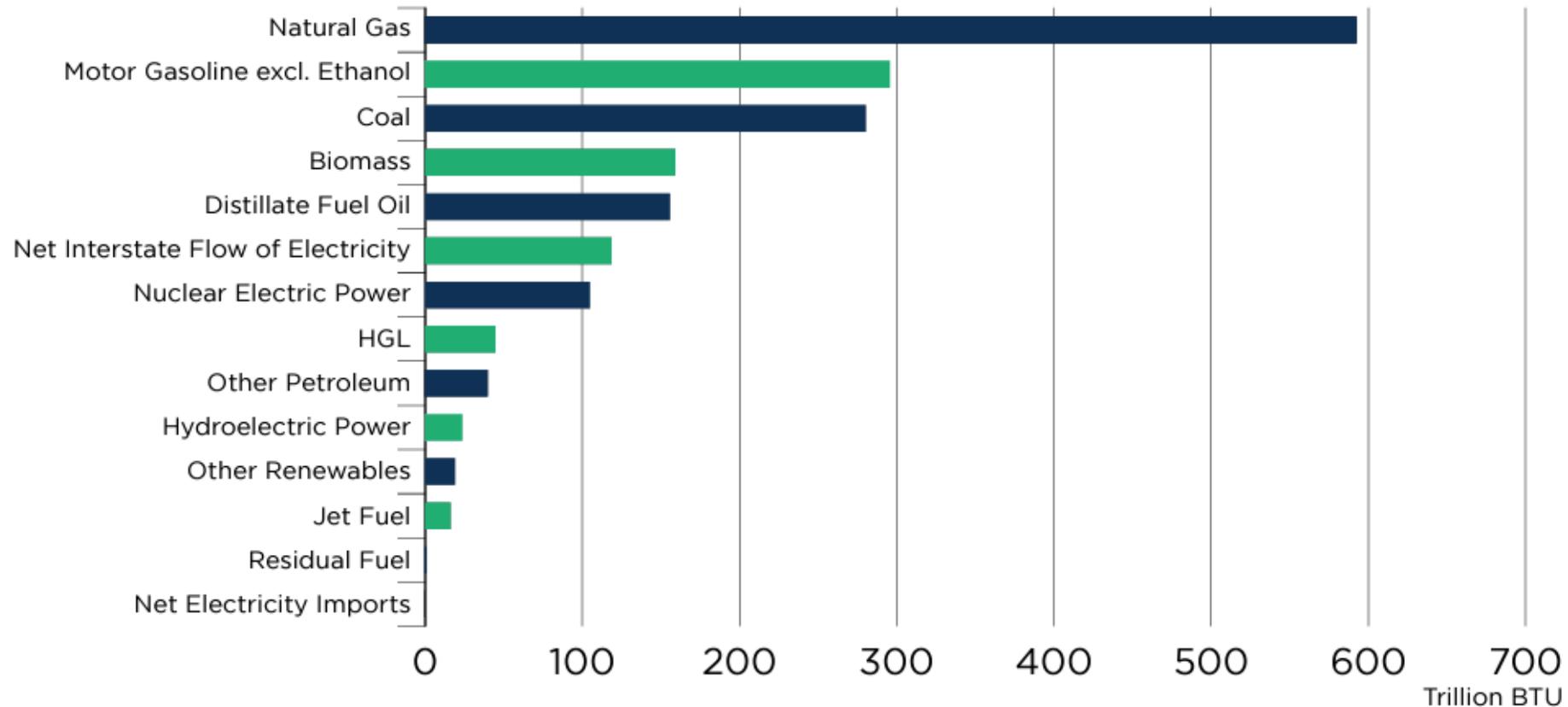


# U.S Total Greenhouse Gas Emissions



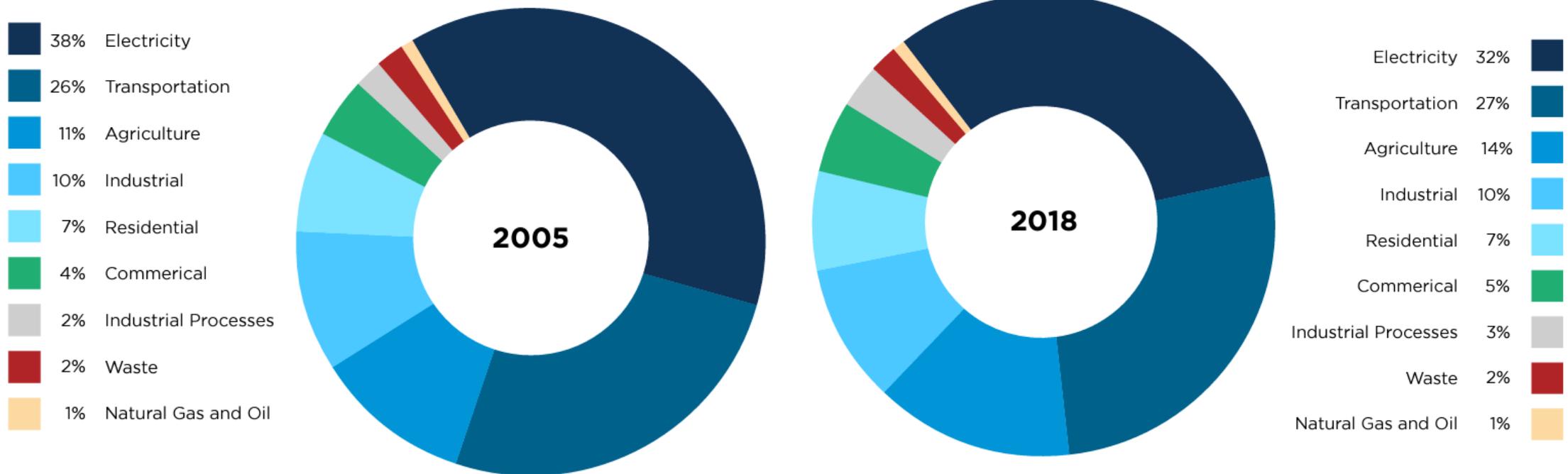
# Reliance on Fossil Fuels

## Wisconsin Energy Consumption Estimates **2019**

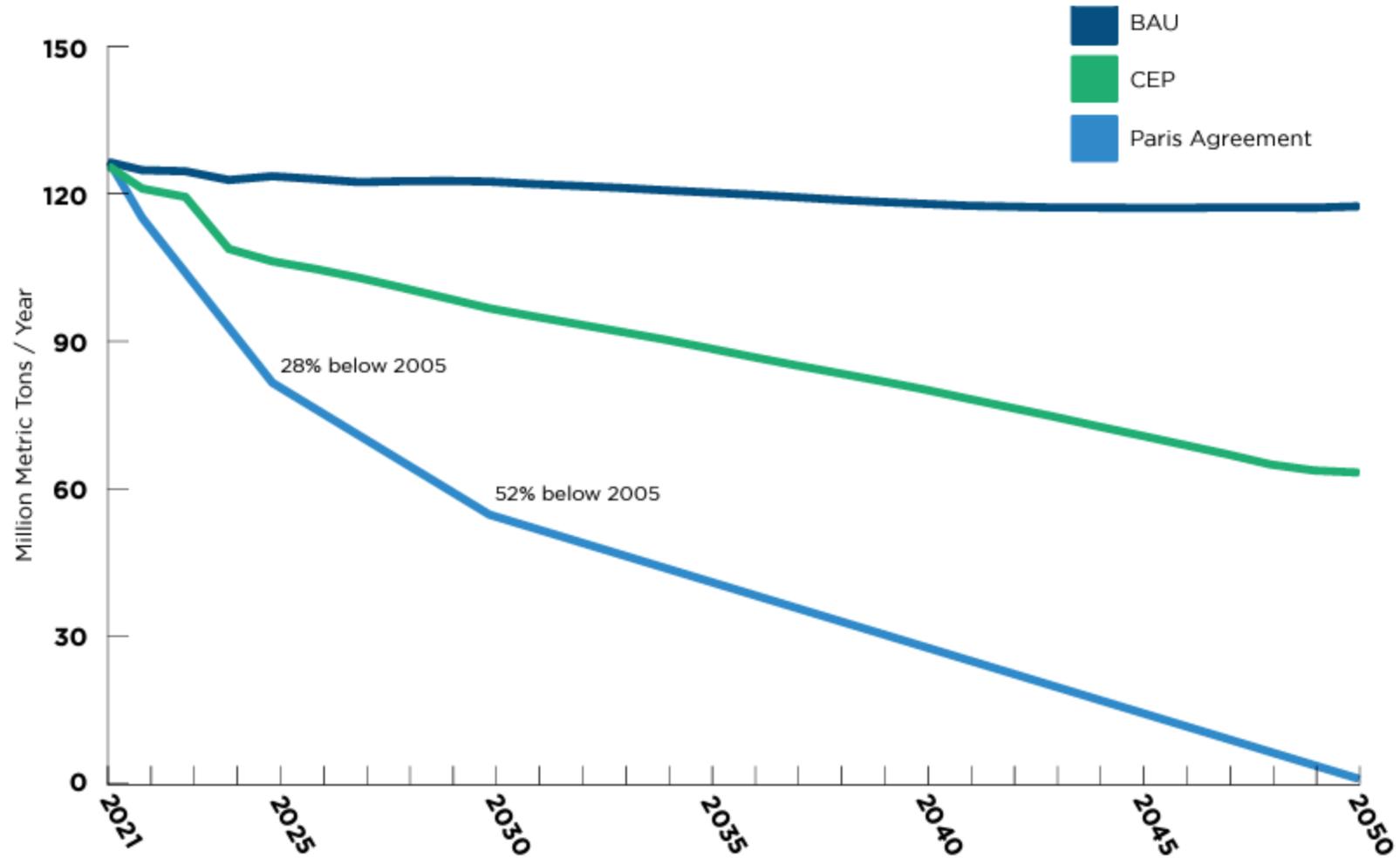


# Emissions Inventory

## WISCONSIN GHG EMISSIONS BY ECONOMIC SECTOR BY PERCENT



# Clean Energy Plan Emission Impact



# Clean Energy Plan Emission Impact

Figure 10 - NO<sub>x</sub> and SO<sub>x</sub> Emissions (Million Metric Tons)

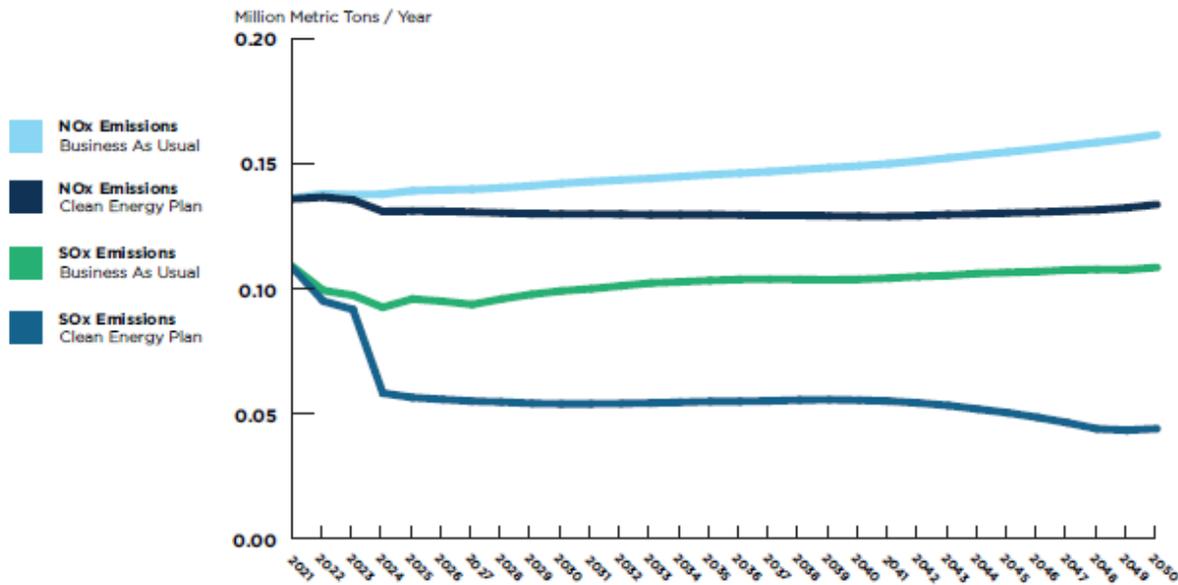
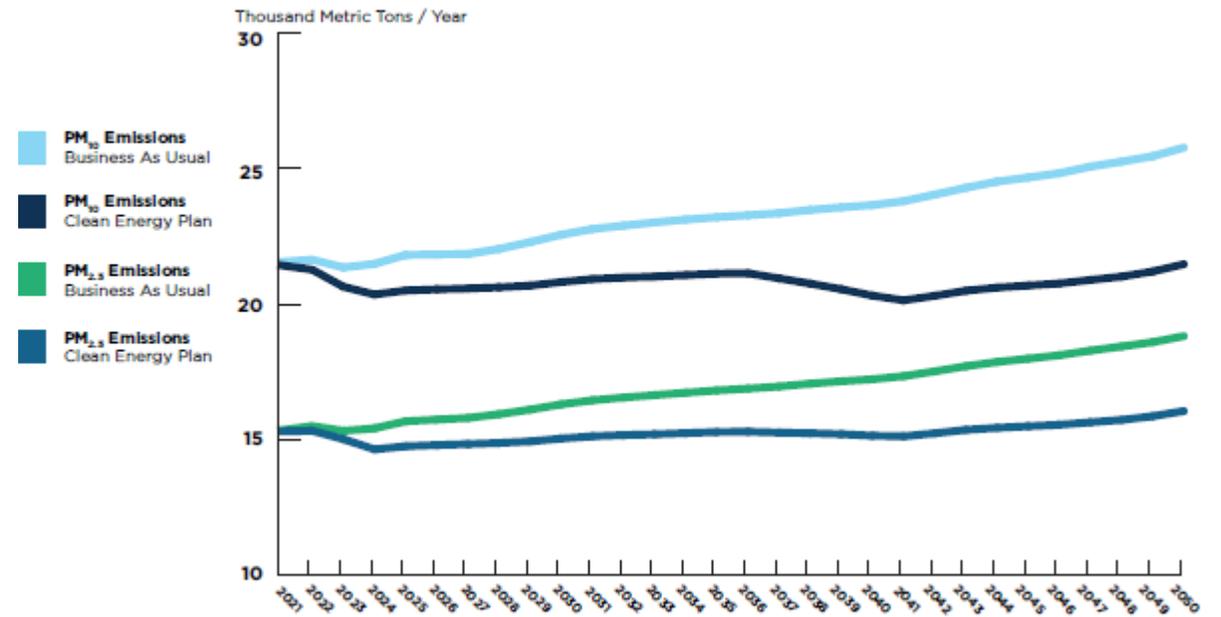


Figure 11 - PM<sub>2.5</sub> and PM<sub>10</sub> Emissions (Thousand Metric Tons)



# Cost of Inaction

- **Climate Impacts** – extreme weather events, extreme heat, resilience
- **Health Impacts** – especially communities disproportionately impacted by climate change
- **Energy Spending** - deficit of \$14.4 billion
  - Net Energy Importer
  - No substantial in-state fossil fuel resources, coupled with a strong reliance on fossil fuel
- **Workforce** - Missed opportunities for many more, good-paying jobs



# Engagement

State Agencies: DOA, DNR, DATCP, DOT, DSPS, PSCW, DHS, DWD, DOC, Tourism, WEDC, WHEDA, DVA, UW System

Native Nations

Federal & Local Governments

Low-Income/Frontline Communities

NGOs (Environmental, Energy)

Labor and Trades

Tech Colleges

Utilities (IOUs, Coop)

Sector Representatives

Industrial

Transportation

Building

Residential

Ag

Tech Companies

Foundations

Just Transition Advocates

Consumer Advocates





# State of Wisconsin Action Clean Energy Plan

- Developing key pathways and strategies to transition to a clean energy economy – actionable, high impact
- Focus on multi-sector deep decarbonization:
  - 100% carbon-free electricity consumed by 2050 (Power Sector)
  - Wisconsin's contribution to emissions reduction related to the Paris Climate Accord
    - economy-wide target for the US to reduce its net greenhouse gas (GHG) emissions by 50-52% below 2005 levels in 2030



## Additional CEP Objectives

- Reduce the disproportionate impacts of energy generation/use on low-income and communities of color
- Maximize the creation of, and equitable opportunities for clean energy jobs
- Improve reliability and affordability of the energy system
- Strengthen the clean energy workforce through training and education and focus on a just transition
- Protect human and environmental health by reducing ecosystem pollution from fossil fuels.



# Value Statement

Three core values during the transition: justice, equity, and collective action.

- Ensure a just and equitable transition
  - individuals who have been most impacted by pollution and climate change must be part of the decision-making process and this process must include diversity as it relates to race and ethnicity, sex and gender, socioeconomic status, and geography through this transition.
- Job creation, business and community development, and resources must be shared across the state and across communities
  - communities that have most felt the impacts of climate change and have faced systemic barriers to wealth and opportunity must see and feel the benefits of this transition.
- Shared responsibility among all levels of government and governing bodies, the utility, energy, and transportation industries, the private sector, and non-governmental organizations.

# Pathways & Strategies

- ***Accelerate clean energy technology deployment*** – increasing funding options for projects, investing in infrastructure, new emissions goals, expanding state energy resources for generation, technology innovation, equitable expansion of clean energy, leveraging existing policies and programs.
- ***Maximize energy efficiency*** – strengthening energy efficiency standards and goals to reduce energy waste and save consumers money on energy costs.
- ***Modernize buildings and industry*** – addressing building codes, supporting electrification, expanding funding, and supporting industry and businesses in their transition
- ***Innovate transportation*** - support the transition to low- to no-emission vehicles and supporting refueling options, along with planning and increased options to move people around.
  
- ***Prioritizing healthy equity, environmental justice and equitable economic development***
- ***Fast-tracking workforce development and just transition***
- ***Accelerating government led efforts (lead-by-example)***



# Highlights

1. Launch an Equity First Program
  2. Launch a systematic approach to clean energy workforce development and an intentional effort to employ Wisconsin workers and businesses
  3. Increase public and private sector investment in the deployment of clean energy in Wisconsin
  4. Strengthen energy efficiency standards and goals - Focus on Energy
  5. Fast-track opportunities in buildings & industry - Building Codes
  6. Accelerate electric vehicle adoption
  7. Accelerate government-led efforts
- Living document and process for equitable, inclusive, and impactful clean energy planning and implementation – measurement and verification, room for adjustments along the way



# What's Next?



## CONTACT INFORMATION

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