

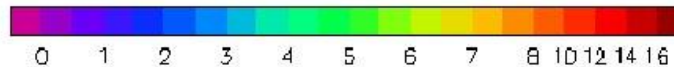
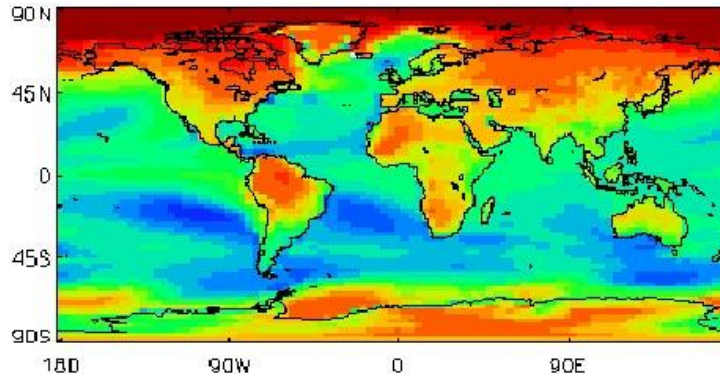
Office of Energy and Climate Change

Keith Reopelle, Director



Office of Energy & Climate Change Charge:

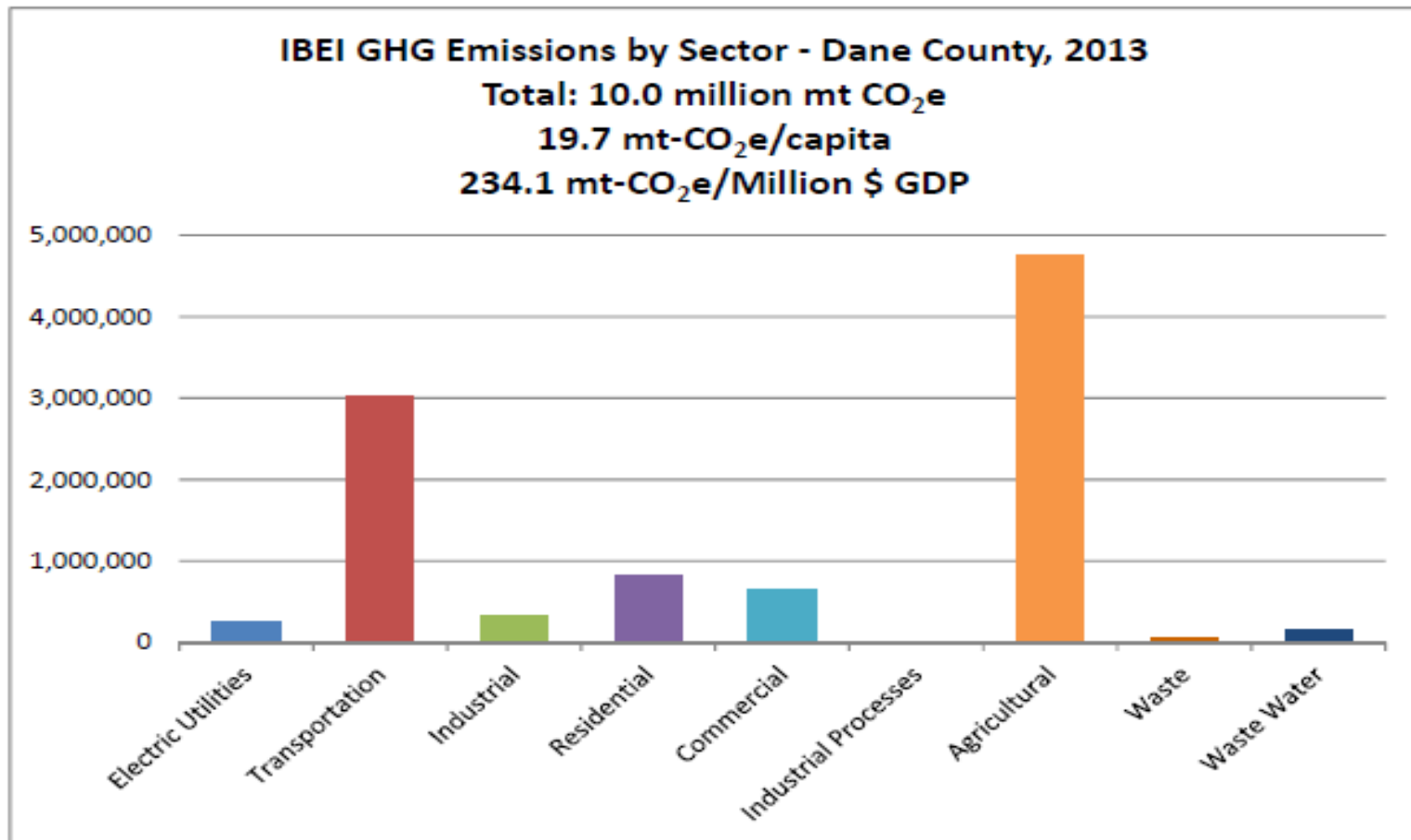
- Plan, organize, develop and implement a county-wide climate change action plan;
- Coordinate and Direct the activities of the Dane County Climate Change Action Council;
- Coordinate programs of county departments;
- Oversee public relations and promotional activities of Dane County's climate change initiatives;
- Monitor and track the performance of these efforts to reduce climate change emissions and adapt to climate change;
- Provide technical assistance.



Dane County Air Emissions Inventory

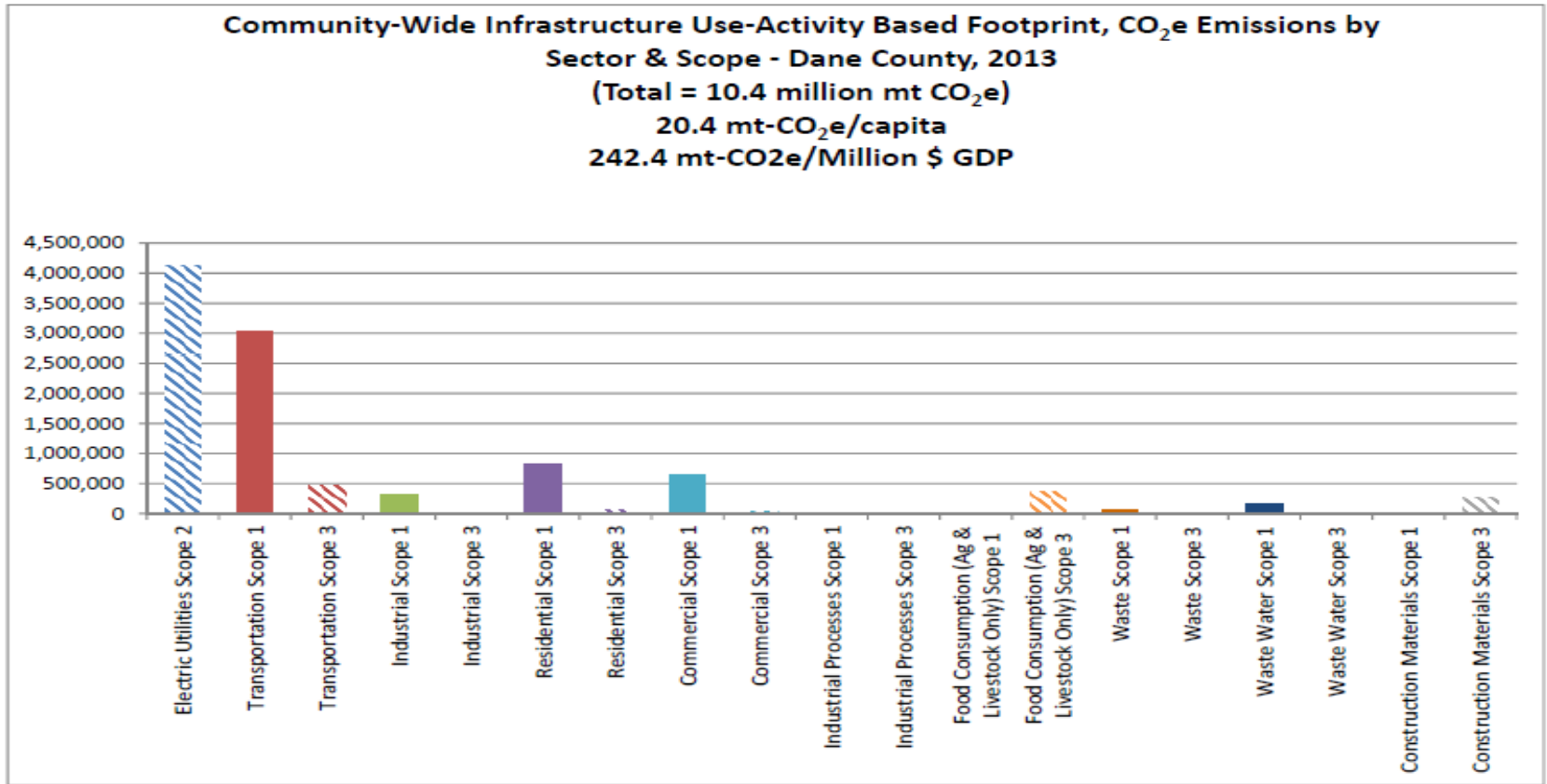
Univ. of Minnesota, Prorok et. al.

Figure 2: In-Boundary Emissions Inventory GHG Emissions by Sector – Dane County 2013



County-wide Infrastructure Use-Activity Footprint (i.e. imported electricity included)

Figure 5: Community-wide Infrastructure Footprint GHG Emissions by Sector



Dane County Council on Climate Change

- 38 Organizations—diverse stakeholder perspectives
- 7 Government (Madison, Middleton, Monona, Sun Prairie, Fitchburg)
- 3 Utilities (Alliant Energy, MGE, WPPI)
- 7 Businesses & Madison Chamber
- 4 Community Equity/Justice (e.g. Urban League, YWCA)
- 2 Agriculture (Clean Fuel Partners, crop farmer)
- 6 Environmental (e.g. Sustain Dane, Sierra Club)
- 3 UW (e.g. Nelson Institute, WICCI)
- Labor & Law

Dane County Climate Change Council Goal:

- Develop a climate mitigation action plan that will put Dane County on a path to deep decarbonization (GHG emissions), and establish Dane County as a national leader on climate mitigation.
- Consensus Support for the CAP



Overarching Areas of Emphasis:

- Develop a climate mitigation action plan that:
 - demonstrates that deep de-carbonization policies, programs and projects will result in major **economic benefits**;
 - demonstrates that deep de-carbonization actions will result in major **health benefits**;
 - demonstrates that deep de-carbonization can be achieved in a **just and equitable** way; and
 - demonstrates how **rural and urban** citizens and stakeholders can come together and support and respect each other's roles in addressing one of the biggest challenges of our time.
 - Demonstrates how reducing GHGs will increase **energy security**.



Office of Energy & Climate Working Groups:

- Energy Efficiency
- Electricity Supply/Generation
- Agriculture, Forestry & Food
- Transportation & Land Use
- Buildings
- Water—Energy Nexus
- Adaptation
- Public Engagement
- Modeling
- Financing



Renewable CNG Filling Station



Policies & Programs Considered for the CAP

- Dane Co energy efficiency program
- 1,200 MW of solar capacity
- Additional bio-digesters
- Electricity storage
- Afforestation & reforestation
- New construction guidelines and benchmarking for commercial buildings



Land Use and Transportation Recommendations

- Electric vehicle charging infrastructure
- Land Conservation
- Urban Villages
- Active Transportation
- Regional Transit
- Project Scoring



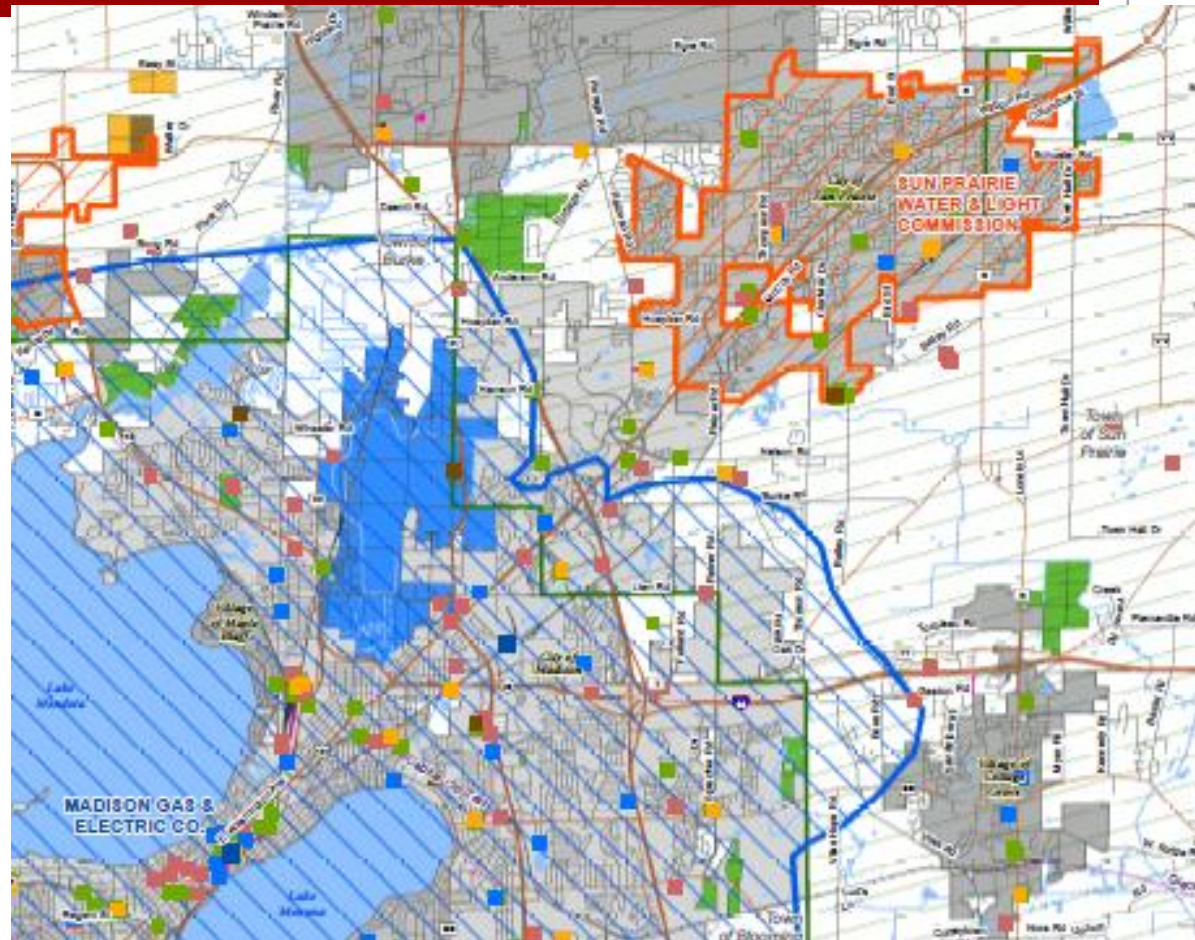
Additional Dane OECC Initiatives:

- Municipal Carbon (net zero) and Renewable (100%) Goals
 - (Madison, Middleton, Monona, Fitchburg, Sun Prairie)
- Clean Energy Districts
 - Multiple RE sources, storage/resiliency, EE, low-C transportation
- Comprehensive Energy Planning
 - PSC Office of Energy Innovation Clean Energy Grant Program
 - \$5M for planning or implementation/projects
 - Manufacturing Businesses, Schools, Local Government



Dane Co Critical Facilities

- Electrical Gen
- Electrical Distribution
- Water Supply
- Waste Water Treatment
- Communications



Challenge Yourself--and the Climate Council!!!

- To think BIG!
- To be creative and innovative!
- To grow and work together!



- “If rapid emission reductions do not begin soon, the burden placed on young people to extract CO₂ emitted by prior generations may become implausibly difficult and costly.”

James Hanson et. al. July 18, 2017

Dane County Office on Energy and Climate Change

Questions?

Comments?

Suggestions?

reopelle.keith@countyofdane.com

608-283-1476

