

# Dane County Climate Change Council

## Review of Work Group Proposals

Dane County Climate Council Meeting,  
October 16 & 23, 2018

Office of Energy  
& Climate Change



**Keith Reopelle, Director**

# Work group proposals...

Efficiency

Buildings

Renewable Energy & Heat

Transportation & Land Use

Ag, Forestry & Food

Water



& Climate Change



# Other work groups

- Adaptation
- Finance
- Modelling
- Public Engagement



## Efficiency: Overview

The goal of the working group recommendations is to inspire more action on efficiency by engaging under-served sectors (rural residents, small businesses, multi-family owners and residents).

Also, to encourage comprehensive efforts: not just energy efficiency, but also transportation, water use, and behaviors.



## Efficiency: Recommendations

- Comprehensive customer-focused efficiency program
  - Residential
  - Multi-family
  - Small Business
  - Agriculture
- Rural Air-source heat pump program



# Buildings: Recommendations

## New Construction

- Voluntary Performance Challenge/Guidelines
- Dane County participation in the U.S. Department of Energy Better Buildings

## Existing Buildings

- Municipalities lead by example on benchmarking and reducing
- Target under-performers for technical support
- Benchmarking policy support for municipalities



## Renewable Electricity & Heat: Recommendations

- Large-scale solar
- Wind
- Solar energy education
- Energy storage
- Support municipal collaboration to implement renewable energy goals



## Transportation & Land Use: Overview

The group set emissions reductions targets based on the goals of the 2016 Paris Accord—to reduce transportation emissions in Dane County by 80% by 2050. Transportation accounts for 1/3rd of all Dane County emissions today, approximately 3 MMTCO<sub>2</sub>eq—to meet our 2050 goals, this needs to be reduced to 0.6 MMTCO<sub>2</sub>eq. Cars and light trucks account for 94% of all transportation emissions in the County, and were the main focus of the group’s recommendations.

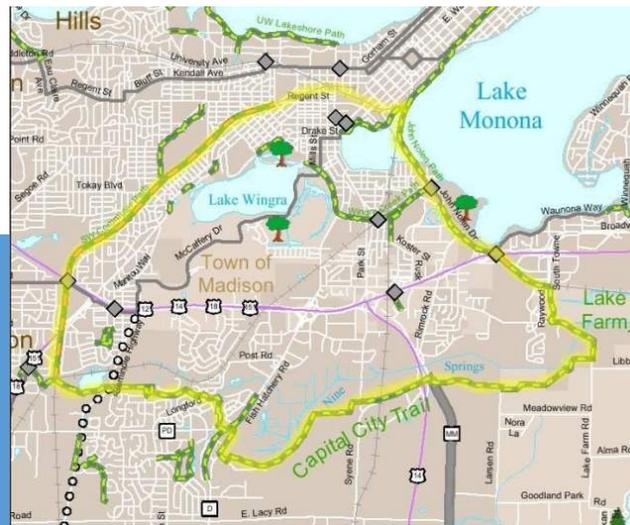
Two broad pathways to our goal were identified and need to be implemented simultaneously: reducing driving and electrifying vehicles.



# Transportation & Land Use: Recommendations

## Pathway 1 (VMT):

- Land Conservation
- Smart Growth
- Regional rapid transit system
- Active transportation
- Project scoring
- Smart pricing



## Pathway 2 (Electrification):

- Municipal electrification
- Improve infrastructure for EVs
- Create EV outreach and education programs

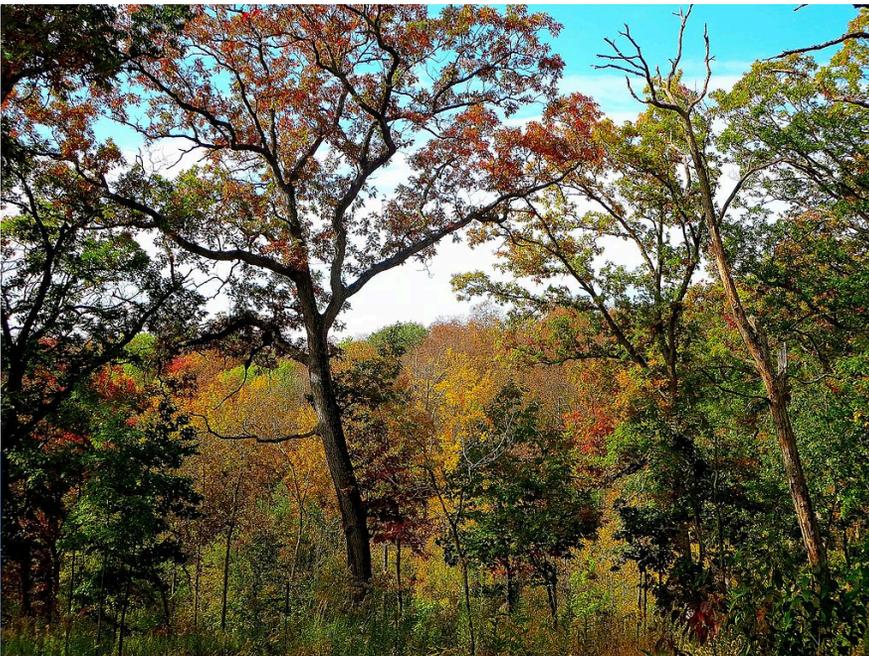


Office of Energy  
& Climate Change



## Ag, Forestry and Food

Dane County covers 1,238 square miles of land and water resources (769,392 acres). Agriculture covers 65.8% of the county's land area, forests 14%, and water 6%.



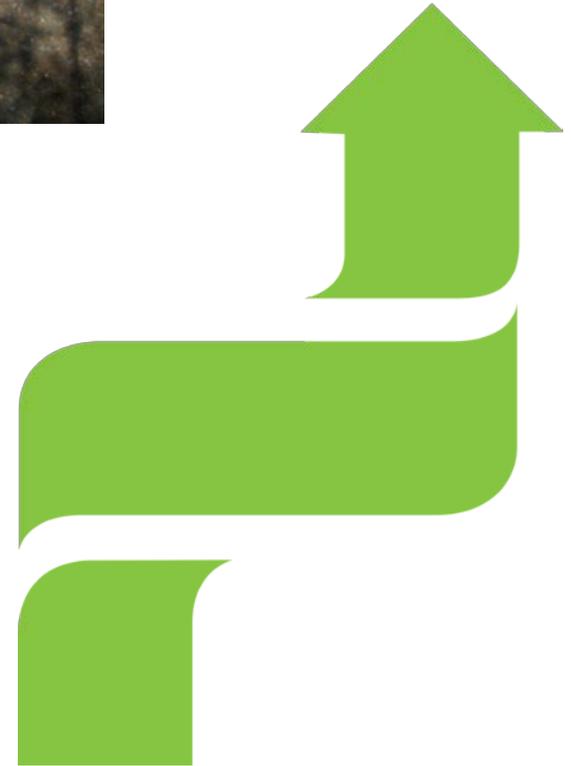
Dane County's significant farm and forest lands offer a crucial opportunity in its climate change mitigation portfolio.

Office of Energy  
& Climate Change



## Ag, Forestry and Food: Recommendations

- Carbon sequestration: soils
- Carbon sequestration: forests
- Food security and sequestration
- Dane County Biomass Upcycling Facility



Office of Energy  
& Climate Change



## Water: Recommendations

- Water efficiency and rainwater capture incentives program
- Commercial water efficiency outreach program
- Best practices for drinking water utilities program
- Low-oxygen wastewater treatment research project
- Mid-scale solar and storage analysis project
- Salt regulatory requirements program
- Salt reduction research project
- Ground water monitoring research program

