

The background features abstract, overlapping green geometric shapes in various shades, including light lime green, medium green, and dark forest green, creating a modern and dynamic feel.

Renewables Working Group

Municipal Renewable Energy
Recommendations

Objective

In order for Dane County to meet its deep decarbonization goals, it needs to mobilize and support its local municipal governments, their businesses and residents toward clean energy goals and implementation.

- ▶ 11/47 Dane County municipalities
Gov't, businesses, homes = 91% of all kWh use county wide
- ▶ 4 municipalities consume 75.6% of electric use (Madison, Sun Prairie, Middleton and Verona)
- ▶ Working with 4-11 will result in the biggest return toward meeting Dane County decarbonization



Recommendation #1: Uniform Measurement

Identify, measure and track status of energy use and CO2 emissions of 11+ local governments, their businesses and residents

- ▶ What gets measured can be managed
- ▶ Measurement allows for reporting of progress toward goals

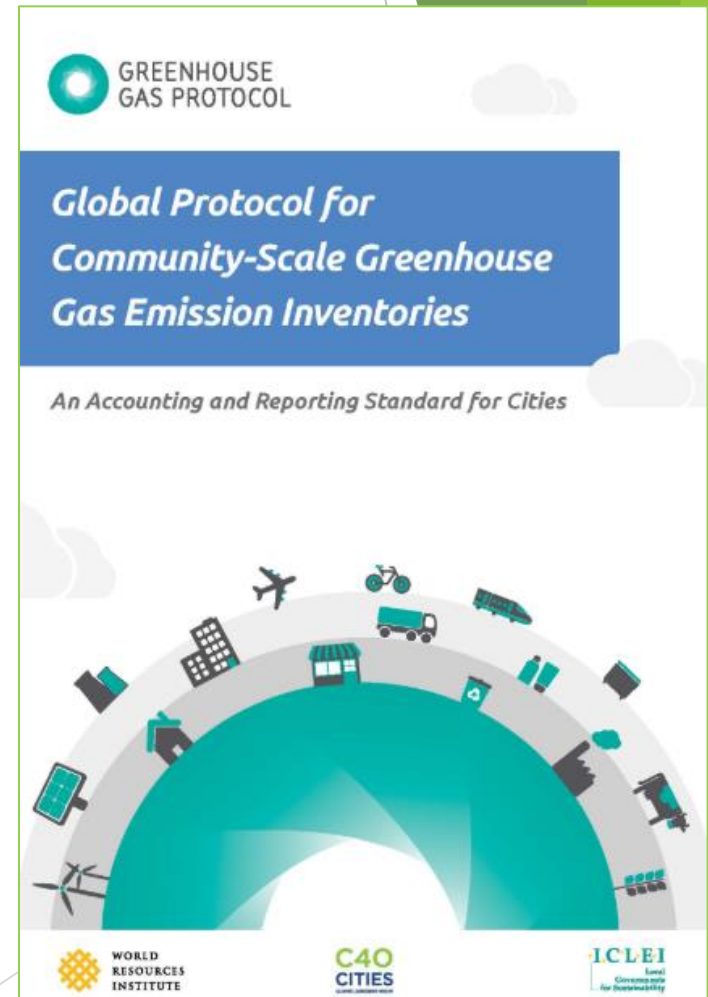
Recommendation #1: Uniform Measurement

Use same measurement tools for all municipalities county-wide:

- ▶ EPA Portfolio Manager for municipal operations and businesses
- ▶ ICLEI GHG Protocol for Cities



The most-used energy measurement and tracking tool for commercial buildings.



Recommendation #1: Uniform Measurement

County role:

- ▶ Facilitate data entry for municipalities
- ▶ Ensure community-wide energy use is tracked
- ▶ Arrange for data upload into ICLEI GHG Protocol
 - ▶ Enter energy use by municipal buildings either through providing/ arranging for a shared person to input data (county or contracted work), or trainings of municipal staff with oversight to enter data.
 - ▶ Encourage utilities to provide data for business and residential sectors. Refer to Xcel Energy's Community Energy Reports & Green Button open data standards

Recommendation #2: Clean Energy Goal Adoption

Recommend municipalities adopt clean energy goals by resolution

Enables:

- ▶ budgeting for energy efficiency, renewable energy and greenhouse gas emissions reduction programs and projects
- ▶ incorporating energy & climate into staff responsibilities

Recommendation #2: Clean Energy Goal Adoption

- ▶ 5 of 11 municipalities (Madison, Middleton, Monona, Fitchburg, Sun Prairie) adopted Energy Independent Community Resolutions to generate 25% of municipal energy use from renewable sources locally by 2025.
- ▶ Madison has adopted a 100% renewable energy goal.
- ▶ These 5 municipalities city-wide comprise 74% of Dane County electric use.

Recommendation #2: Clean Energy Goal Adoption

County role:

- ▶ Facilitate sharing clean energy resolutions
- ▶ Provide assistance with developing resolutions in partnership with other Climate Council members (e.g. UW-Extension, Sierra Club)

Recommendation #3: Clean Energy Implementation

Support municipal collaboration to implement renewable energy goals

- ▶ Learning from each other, sharing resources and joining efforts can help accelerate implementation and ensure success more feasibly



Photos courtesy of Sherrie Gruder

Recommendation #3: Clean Energy Implementation

County role:

- ▶ Assist with grant writing to help municipalities fund programs and projects
- ▶ Work with utilities to provide renewable energy opportunities to municipalities
 - e.g. Dane County airport solar project, solar group buys, etc.
- ▶ Ensure equitable access to clean energy for low & moderate income neighborhoods
 - ▶ Explore opportunities for microgrids and storage in relation to equity as well as in critical & vulnerable facilities