

# Staff Update

SMC - June 3<sup>rd</sup> 2024



CITY OF MADISON  
**SUSTAINABILITY**

# Air Quality Monitoring

The City of Madison is leading a collaborative project to install a [citywide network of air quality sensors](#) to help understand air pollution in our community.

70 sensors will be located around Madison, roughly in each 2018 census tract.

This initiative is supported by a \$430,000 grant from the US Environmental Protection Agency (EPA).

## Progress:

- Hosted 4 Open House Events with community partners. Input informed types of locations to prioritize for sensors, such as schools.
- All locations have been identified and installation will begin soon.
- Two monitors have been co-located with the DNR's regulatory air quality monitors to ensure data quality.

# Love My Air – Interactive Dashboard


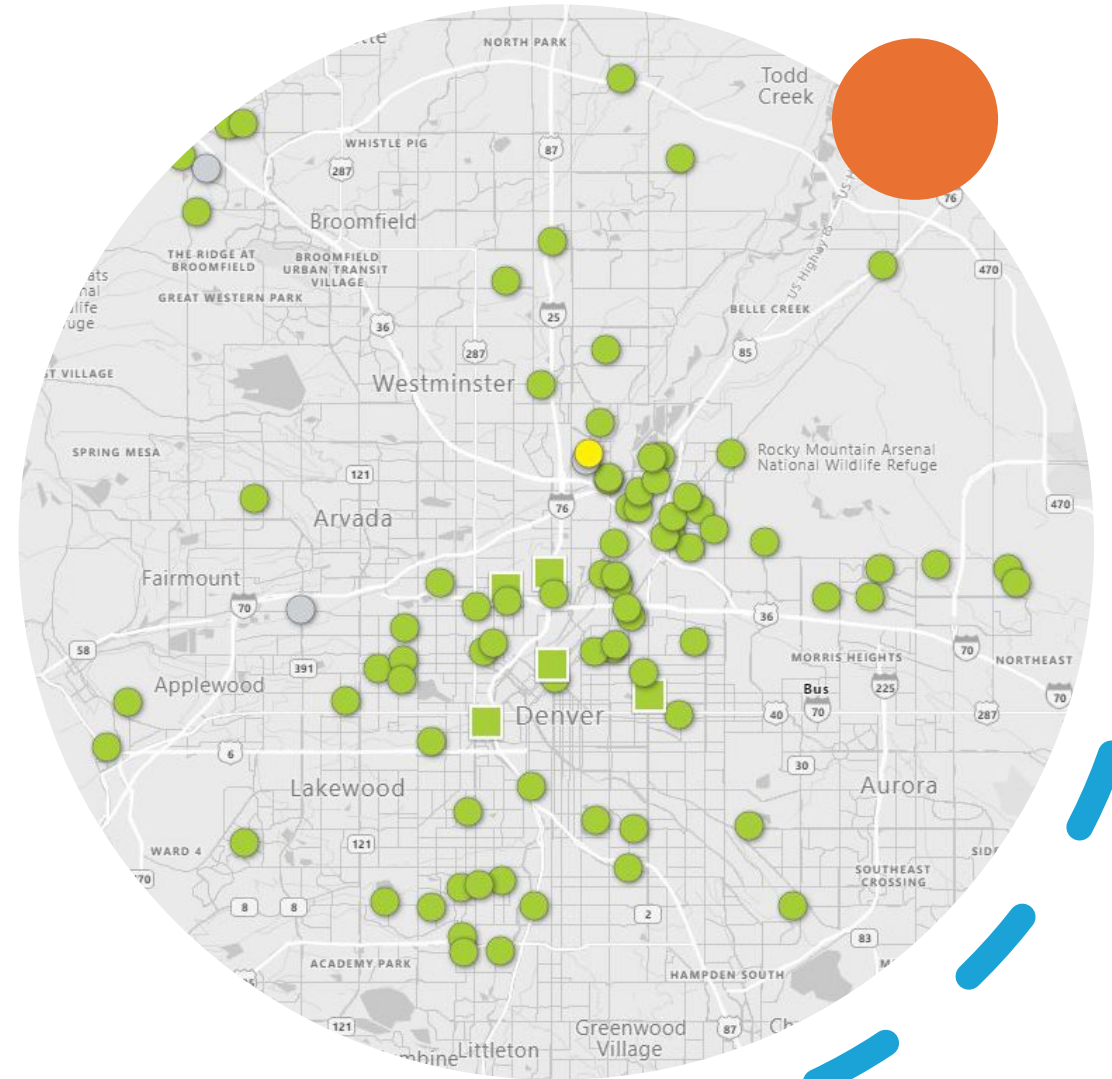


**AIR QUALITY INDEX (AQI) - ACTIVITY GUIDE - GRADES K-5**  
Visit [Playworks.org](https://playworks.org) or scan the code below for fun game ideas and videos on how to play.

<p><b>AQI 0-50</b></p> <p><b>GOOD</b></p> <p><b>NORMAL DAY</b></p> <p>It's a great day to be outside! Visit <a href="https://playworks.org">Playworks.org</a> or scan the code below for fun game ideas.</p> <p><b>OUTSIDE</b></p>	<p><b>AQI 51-100</b></p> <p><b>MODERATE</b></p> <p><b>SENSITIVE GROUPS</b></p> <p><b>WATCH FOR SYMPTOMS</b> (coughing and/or shortness of breath)</p> <p><b>LET'S PLAY</b></p> <p>Outside games that limit exertion:</p> <p>Grades K-1 Bandage Tag*   Catch and Drop   Pac Tag*</p> <p>Grades 2-5 Helicopter   Hot Shot Basketball   Wall Ball</p> <p>*walking option</p>	<p><b>AQI 101-150</b></p> <p><b>UNHEALTHY</b> for sensitive groups</p> <p><b>SENSITIVE GROUPS</b></p> <p><b>LIMIT PROLONGED EXERTION</b></p> <p><b>WATCH FOR SYMPTOMS</b> (coughing and/or shortness of breath)</p> <p><b>TAKE BREAKS</b></p> <p><b>MORNING IS BEST</b></p> <p><b>SHORTEN OUTSIDE ACTIVITIES</b></p> <p><b>LET'S PLAY</b></p> <p>Outside games that limit exertion:</p> <p>Grades K-1 Bridge Ball   Hot Shot Soccer   Secret Agent</p> <p>Grades 2-5 4-Square   Around the World   Bridge Ball   Hot Spot Soccer</p>	<p><b>AQI 151-200</b></p> <p><b>UNHEALTHY</b> for all groups</p> <p><b>ALL GROUPS</b></p> <p><b>LIMIT PROLONGED EXERTION</b></p> <p><b>WATCH FOR SYMPTOMS</b> (coughing and/or shortness of breath)</p> <p><b>TAKE BREAKS</b></p> <p><b>MORNING IS BEST</b></p> <p><b>CONSIDER INSIDE ACTIVITIES</b></p> <p><b>LET'S PLAY</b></p> <p>Outside games that limit exertion:</p> <p>Grades K-1 Bridge Ball   Fish Bowl</p> <p>Grades 2-5 Bridge Ball   Concentration Crunch   Detective Frog   Fish Bowl   Splat</p>	<p><b>AQI 201-500</b></p> <p><b>VERY UNHEALTHY</b></p> <p><b>ALL GROUPS</b></p> <p><b>AVOID OUTSIDE ACTIVITIES</b></p> <p><b>INSIDE</b></p> <p><b>LET'S PLAY</b></p> <p>Inside games:</p> <p>Grades K-1 Beans on Toast   Bob the Bunny   Detective Frog   I See I See   Sleep Bunny   The Big Cheese</p> <p>Grades 2-5 Detective   The Big Cheese   Wall Tag</p>
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**NOTE** These recommendations do not represent EPA recommendations or provider guidance for each individual child. Always refer to each child's asthma plan and watch all children for any signs of distress. For any questions/concerns, please consult with the school nurse for personalized guidance based on specific needs and medical history. Love My Air Wisconsin is a program of Children's Health Alliance of Wisconsin. Learn more at [www.chawisconsin.org/air](http://www.chawisconsin.org/air).

**VISIT PLAYWORKS GAME LIBRARY**  
Search by age, class size, inside/outside and more. Watch fun videos on how to play.

Check out <https://lovemyair.com/wisconsin/Home/Map>

# Building Energy Savings Program




The City of Madison adopted the new Building Energy Savings program (BESP) in March 2023 to improve energy efficiency in large commercial buildings community-wide through energy benchmarking and tune-ups.

This year, only commercial buildings larger than 100,000 square feet must begin benchmarking. The reporting deadline is September 6.

This initiative is supported by \$291,000 in funding from the Department of Energy (DOE)'s - Energy Efficiency and Conservation Block Grant (EECBG) Program.

## Progress:

- Program launched on May 15.
  - The [2024 Covered Buildings List](#) includes all buildings that must begin benchmarking this year.
  - The [Building Owner Portal](#) is now open.
  - Virtual training, online guides, and a help desk to answer any questions are all available.
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# Grants

## **Upcoming: Charging and Fueling Infrastructure Discretionary Grant Program (“CFI”)**

City of Madison will collaborate with Dane County and other partners to build EV charging in rural areas, low- and moderate-income neighborhoods, and multi-family housing to help accelerate the transition to EV’s across our region.

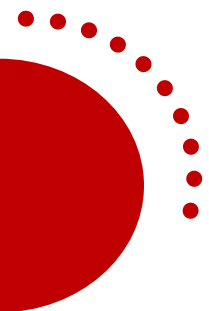
Funding: \$500,000 - \$15 million

## **Submitted: Community Change Grant**

City of Madison and nonprofit partners will lead a collaborative project to provide energy efficiency upgrades to 1,875 low-income households in Madison.

Together, the team will expand and accelerate three complementary programs already at work in our community - Project Home, Sustain Dane’s Efficiency Navigator Program, and Operation Fresh Start’s Build Academy and Climate Corp.

Funding: \$20,000,000



# Grants

## **Awarded:** Energy Futures Grant – Phase 1

Madison and neighboring communities received a [\\$500,000 Energy Futures Grant](#) to grow the [Efficiency Navigator Program](#) in Madison, Fitchburg, Middleton, and Sun Prairie. This program provides free energy-saving upgrades to affordable multifamily housing and supports green workforce development. This award also makes us eligible for a second \$1M grant down the line.

Funding: \$500,000

## **Awarded:** State of Wisconsin - Energy Innovation Grant Program

City of Madison will study the potential for geothermal at Monona Terrace. The Monona Terrace uses steam from the State's steam network, which also powers the Capitol Building. Since this power generation does not use any renewable energy and there are no plans to add any, it makes it the dirtiest energy in our mix.

Funding: \$50,000





# Grants

## **Awarded:** Bloomberg Philanthropies' new Youth Climate Action Fund

Madison received funding to distribute \$5,000 as microgrants through the youth-led program “By Youth For Youth” (BYFY) to activate young people ages of 15 – 24 years to design, produce, and govern urgent climate solutions in cities. Interested young people & groups have until July 1 to submit a request.

Details & application link are here:

<https://forms.gle/oLUnwbgxrR88CiwL7>

Total Funding: \$50,000

## **Awarded:** State of Wisconsin – Solar for All

Wisconsin is receiving a grant from the Inflation Reduction Act to help fund solar systems for low- and moderate-income households across Wisconsin. The City of Madison helped craft and advise on the application submitted by The Wisconsin Economic Development Corporation (WEDC).

### Distribution:

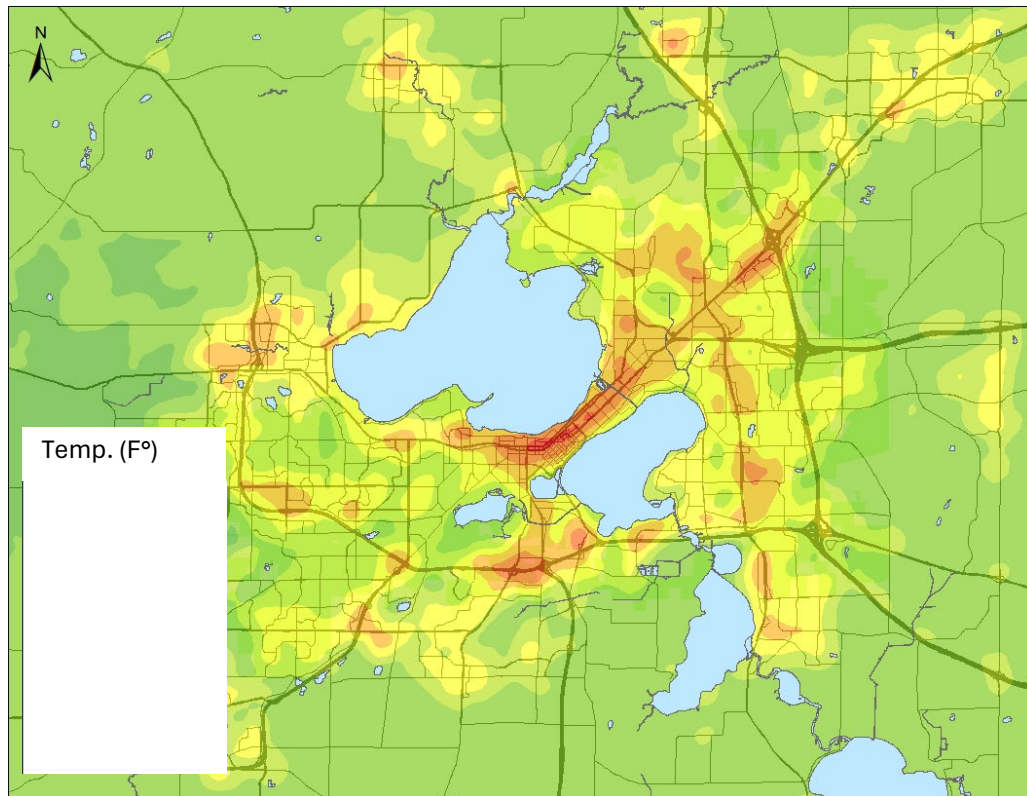
Single Family Solar	20%
Multi-family Solar	20%
Community Solar	60%

Total Funding: \$62.4 million



# Heat Resilience

Mapping temperature across Madison to understand the urban heat island effect.



## Progress:

- Creating layers for daytime and nighttime temperatures for average summer conditions and heat wave conditions
- Working on a story-map for the City's website
- Data layers will be available for City and other partners
- Sharing with City and County Emergency Response Planners



# Renewable Energy

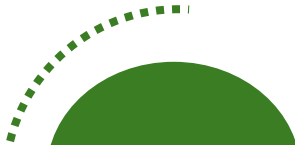


Working to implement the goals from the [100% Renewable Madison report](#). Completed in 2018, the plan provides a science-based approach for reaching our energy goals for City operations and guidance for supporting renewable energy community-wide.

## Goals:

100% renewable energy and net zero carbon emissions for city operations by 2030.

Net zero carbon emissions community-wide by 2050.



## Progress:

- Currently at ~75% renewable energy for city operations.
- Working with MG&E to explore next project to get the City to 100% renewable energy.
- MG&E is considering a renewable natural gas (RNG) pilot, which could off-set some of the more challenging natural gas emissions in the City's portfolio.
- The [City passed 2MW of solar installed on our facilities](#). That brings our current total to 6,203 panels at 38 different facilities.



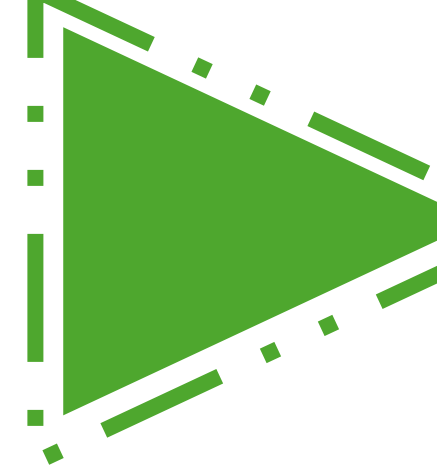
# Efficiency Navigator

Partnership with Sustain Dane and Elevate Energy to provide free energy efficiency upgrades to affordable multifamily housing serving.



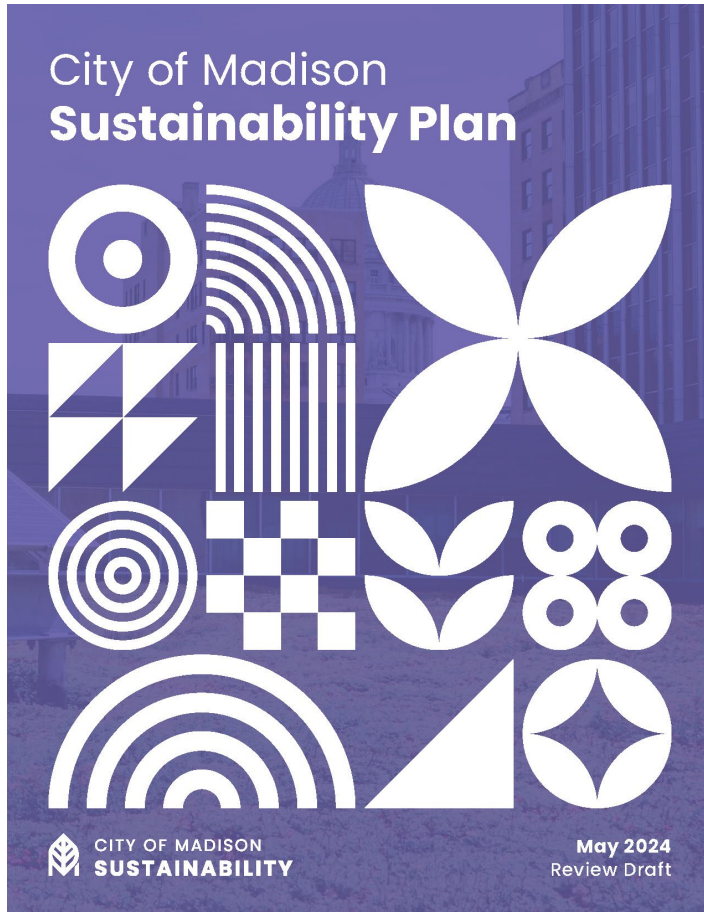
## Progress:

- Provided energy audits and health assessments to 63 buildings with 335 units
- Completed = 19 buildings with 112 units
- In progress = 9 buildings with 28 units
- Average annual cost savings = \$625/building





# Sustainability Plan Update



## Schedule:

- Transportation Commission (6/12/24)
- Plan Commission - (7/8/24)
- Economic Development Committee - (7/17/24)
- Sustainable Madison Committee (7/22/24)
- Common Council - (8/6/24)

Questions?



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**SUSTAINABILITY**