

Ann Arbor / Washtenaw 2030 District

March Newsletter

This Month's Theme: **Capturing Waste for Energy**

Sharing Heat: Thermal Networks, Heat Recovery, and Reducing Energy Waste

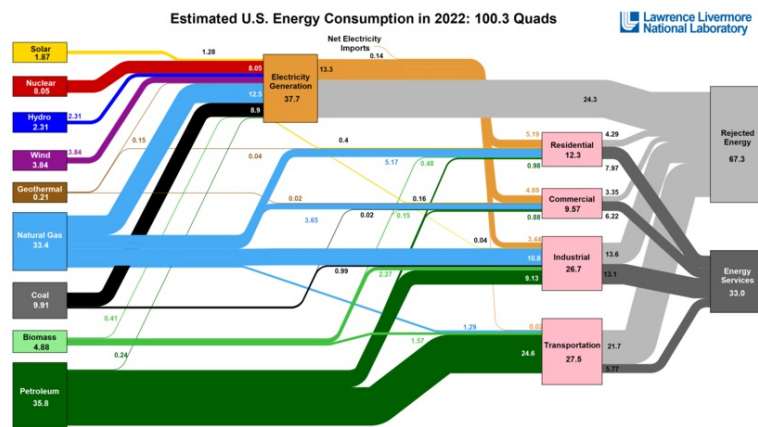
Waste energy presents a massive opportunity for building owners trying to improve energy performance and reduce carbon emissions. *Lawrence Livermore National Laboratory estimates that about two-thirds of the energy produced in the U.S. is wasted yearly.*

Reduce, recover, and then replace.

Efficiency and heat recovery should be pursued before building electrification.

Heat capture and recovery strategies can reduce peak loads, enable downsized electric heating and cooling equipment, and minimize electric grid impacts at scale, as our building stock becomes increasingly electrified.

Thermal networking can be applied on a floor-to-floor, building-to-building, or district basis. Supermarkets, data centers, and medical facilities, which constantly reject heat energy, could become primary heating sources for other buildings, using heat capture and reuse technology.



The 2022 energy flow chart released by Lawrence Livermore National Laboratory details the sources of energy production, how Americans are using energy and how much waste exists.



Capturing Wastewater energy:

Join our [Lunch and Learn with SHARC Energy 3/12](#) to learn more about this topic.

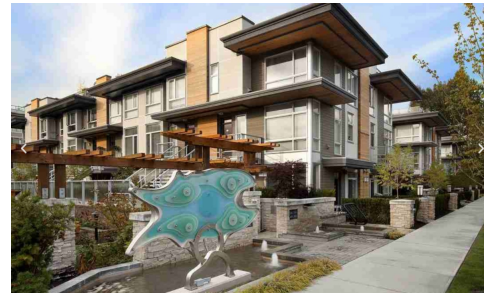
SHARC Energy Projects

District wastewater recovery system: [Alexandria Center for Lifescience](#)



Highlights:

- 99% carbon reduction (as compared to traditional lab)
- 70% of campus building heat provided from city sewer wastewater
- leverages King County's groundbreaking public-private legislation



Multi-family wastewater recovery system: [Building Seven35 recovery system installation](#)

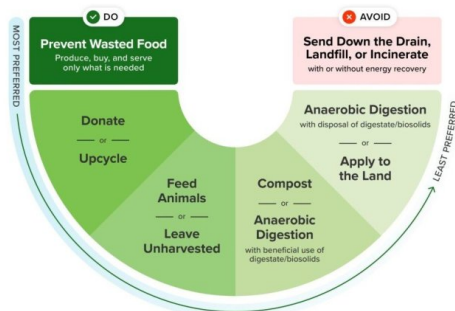
Quick Facts:

- Energy savings of 75%
- GHG production reduced by 90%
- Installed heat capacity of 120,000 Btu/h
- LEED Platinum
- Built Green Gold
- CHBA BC award for most energy efficient and sustainable community
- The average water usage per town home is 250 gallons per day at an average exiting temperature of 20°C (68°F).



Wasted Food Scale

How to reduce the environmental impacts of wasted food



Capturing food waste:

Last month we talked about Sustainable Food Systems and Composting. Here are a few more resources and the EPA's Wasted Food Scale.

[Ann Arbor's Commercial Composting Program](#)

[Tuthill Farms Composting operation](#)

[MSU Aerobic Digester "Rethinking Waste as Power for Campus"](#) MSU is one of only three universities in the United States to have its own self-sustaining anaerobic digester, and it is the largest.



Want to do more around your home, but don't know where to start? The [A²ZERO Home Energy Advisor](#) may be just what you're looking for! The Office of Sustainability and Innovations will soon be offering this service to assist those looking to enhance energy efficiency, electrify their homes/apartments, add renewable energy, and/or explore battery storage. To learn more or ask your questions, please send a note to sustainability@a2gov.org.



THE SECOND ANNUAL
A2 CLIMATE TEACH-IN

Genesis of Ann Arbor

**Second Annual Climate Teach-In:
Build Your Climate Action Toolkit**

Keynote Speaker: United States Congresswoman Debbie Dingell, "Our Hopes for the Future" representatives of AAPS Freeman Environmental Youth Council, breakout sessions, "Community Solar and Other Initiatives" Missy Stults PhD, Director, Office of Sustainability and Innovations City of Ann Arbor, followed by networking.

INFO

1:30 - 5:15



March 12

Lunch and Learn: Implementing the A²ZERO Carbon Neutrality Plan

Session 3: Wastewater Energy Recovery - Sustainable Heating & Cooling using the power of wastewater systems. Speaker: Brock Trimble, SHARC Energy

Register

12 - 1 PM



March 20

HoW and Nonprofits Green Team Meeting #12: On Site Solar for Houses of Worship & Non-Profits
Speaker: Srinergy

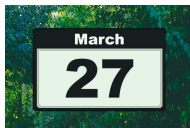
~ Benefits of On-Site Solar
~ IRA Direct Pay Provisions: how do they work?

~ Options for procuring On-Site Solar Systems with Srinergy:

- PPA: Solar PV, Charging Stations + new roofing (if needed)
- Bulk Buy Opportunity: Solar PV + Charging Stations

Register

12:00 PM



March 27

AADL in person/virtual options

SUSTAINABILITY SERIES: OSI is

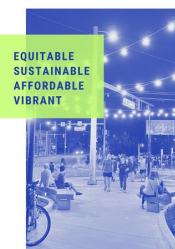
bringing the Sustainability Series back for another season at the downtown branch of AADL! Join in person, or online, the last Wednesday of every month. You can register [here](#) for the virtual meetings, registration is not required to attend in person.

- March 27 – Circular Economy and e-Waste
- April 24 – A²ZERO Equity in Action
- May 29 – Rebates & Home Energy Advisor Services

Register

6 - 7:30 PM

News Corner



DOWNTOWN PLANNING
PUBLIC WORKSHOPS

WE WANT TO HEAR FROM YOU!
PUBLIC ENGAGEMENT
MARCH 12, 13, 14

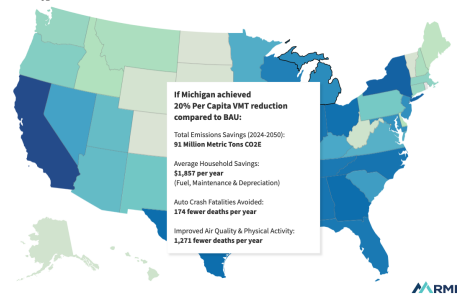
Details and RSVP at bit.ly/downtowna2

Ann Arbor DDA would like your

What if your state achieved a 20% VMT reduction?

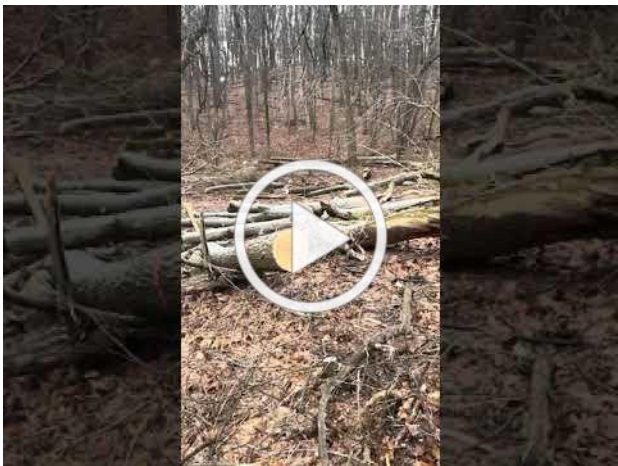
Results assume a mid-growth EV scenario and use state-provided VMT forecasts, where available. Scenario runs 2024-2050.

Avoided CO2e Emissions (Megatonnes)



[RMI - States Can Quantify the Benefits of Climate-Friendly Transportation Options With RMI's Smarter MODES Calculator](#)

input- Engagement from these public workshops will inform the Downtown Area Circulation Study and the City of Ann Arbor's new Comprehensive Plan. [Learn more](#)



Hyper Local Super Ecogroovy Lumber Now Available!
Urban Ashes will have a lot of great lumber with a sweet story - and full documentation on its carbon impacts - as part of the first big salvage project (Oak Wilt remediation in Bird Hills) in their brand new and very first Urban Ashes Circular UrbanWood Triconomy here in Ann Arbor. Contact [Paul Hickman](#) of Urban Ashes for more information.

New Member Shoutouts

[Join the 2030 District and start your Zero Net Energy journey!](#)

Property Owner/Manager



[The Standard at Ann Arbor](#)



[The Boyd Group](#)



Member Resources



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

EGLE announces 2024 energy grants open for applications:

- \$250,000 available to small manufacturers to [implement process energy efficiency measures](#). Applications close March 3, 2024.
- \$150,000 available to local governments, tribal governments, and other public-service entities for [energy-related projects](#). Applications close March 30, 2024.
- \$100,000 available to small manufacturing related businesses for [implementing energy efficiency upgrade recommendations](#) following an environmental assessment. Applications close March 3, 2024.

ANN ARBOR/WASHTENAW



Energy Management Grants

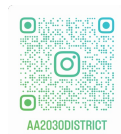
Ann Arbor / Washtenaw 2030 District 2024 Energy Management Grant Program. Member buildings are eligible for grant funding for Energy Audits, Retro Commissioning and Electrification Plans. We support you wherever you are on your carbon neutrality journey. Contact: jculbertson@2030Districts.org if you are interested in learning more.



City of Ann Arbor Benchmarking Ordinance 2024

All commercial and multifamily parcels with buildings totaling 20,000 SF or more are required to benchmark by June 1, 2024. More information can be found [here](#), such as how to file for an extension and the covered buildings list. The A2 2030 District is here to help you through the process. Contact: a2benchmarking@2030districts.org

Eliminate your Scope 2 emissions today by enrolling in [DTE's MIGreen Power Plan](#). It is now priced less than your regular power! Available for residential and business accounts. Contact jculbertson@2030Districts.org if you are a building owner/manager with multiple properties and the 2030 district can connect you with a MIGreen Power representative.



You can now follow us on [Instagram](#) and [Facebook](#)!

Have feedback on website or newsletter?
Please contact karenthurman@2030districts.org



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