Madison Friends Meetinghouse

On the path to net-zero

Although the Madison Friends (Quaker) Meetinghouse is over 100 years old, an extensive 2022 renovation added solar and geothermal systems that dramatically reduce carbon emissions.

This all-electric building now uses less than 20% of the energy of comparable facilities.

- **Awards:** 4 star Climate Champion of 2022
- **Location:** 1704 Roberts Ct, Madison, WI 53711
- **Project Type**: Renovation plus addition
- **Project Size**: Added 1,750 sq. ft. (33% increase), finished project 8,000 sq. ft.
- **Architect:** David Ferch of Ferch Architecture
- **Construction**: Ideal Builders
- **Engineer**: Hein Engineering Group
- **Project Managers:** Rick Pifer and Susan Kummer
- **Partners:** Full Spectrum Solar, Legacy Solar Co-op, Johnson Bank

350 WISCONSIN TOGETHER FOR THE CLIMATE

This document was made by 350 Wisconsin's Community Climate Solutions Team to promote green buildings in our communities.

Climate Champion

Dane County Office of Energy & Climate Change

Geothermal Heating and Cooling

New geothermal wells under the parking lot will save roughly

$2,300

annually in energy bills for the Meetinghouse.

What Is Geothermal?

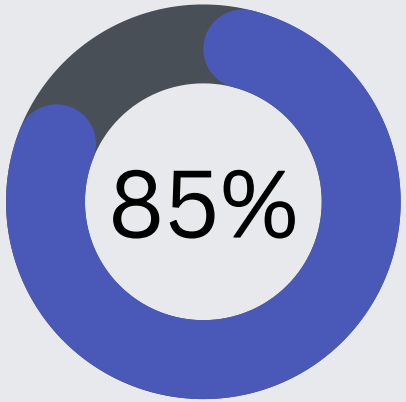
Geothermal energy systems exchange heat between the building and the ground, which is at a constant temperature. This significantly reduces carbon emissions because it is more efficient to transfer heat from the ground than to burn fossil fuels.

Active and Passive Solar Features

Passive solar - south-facing windows provide direct heat; other new large windows increase natural light.

Active solar - Roof-top photo-voltaic panels convert the sun's energy to electricity.

Powered by Solar



85% of the building's electricity comes from its solar array.

Spirituality and the Environment

With Divine guidance, we strive for a Meetinghouse that nourishes and supports the spiritual growth of our religious community, young and old alike; that is welcoming and accessible to all; and that reflects our commitment to the environment."

-Renovation Vision Statement

MADISON FRIENDS MEETING

Green Design Features

- Geothermal energy for heating and cooling
- Active and passive solar
- Electric heat pumps replace gas furnaces
- Tighter, better-insulated building envelope
- Energy Recovery Ventilation (ERV) units use outgoing air to cool or warm incoming air
- Ventilation system with bipolar ionization improves indoor air quality
- Airlock entries on both levels
- New LED lighting and controls
- Greater use of natural light
- Better rain water management
- Bicycle- and bus-friendly location