

VILLAGE OF MCFARLAND **Sustainability & Natural Resources** *NOTICE OF PUBLIC MEETING*
Committee

Monday, March 10, 2025

6:00 PM

McFarland Municipal Center
5915 Milwaukee St, McFarland
Community Room

AGENDA

The public may attend in-person or remotely through the Zoom webinar or telephone options listed below. *Please Note: Virtual attendance is offered as a convenience, but technical difficulties beyond the Village's control may prevent or limit its availability at any meeting. The public is encouraged to attend the meeting in person to assure full access to the proceedings.*

PLEASE CLICK THE LINK BELOW TO JOIN THE ZOOM WEBINAR:

<https://us02web.zoom.us/j/86843249644>

Or by Telephone: +1 (312) 626-6799

Webinar ID: 868 4324 9644

Press *9 to raise/lower hand. Press *6 to mute/unmute.

1. CALL TO ORDER, ROLL CALL.
2. PUBLIC APPEARANCES.
 - a. This is an opportunity for members of the public to address the Sustainability and Natural Resources Committee for items that are not on the agenda. Please remember this is a hybrid meeting conducted in person and through the Zoom online meeting platform. Meeting attendees wishing to address the Committee about items not on the agenda may do so at this time. Zoom attendees should type their name and address in the Question and Answer feature within the Zoom online meeting platform at this time. Members of the public who are present in person and wish to address the Committee should fill out a public comment form and turn into the meeting chairperson. When you are called upon to speak, state your name, address, and provide your comments to the Committee for their consideration. Please adhere to the 3-minute time limit. Additionally, you may send your public comments to sustainability@mcfarland.wi.us to be included as part of the meeting.

Members of the public may also speak during their selected agenda item as they designate on the public comment form or in the Question and Answer feature on Zoom.
3. APPROVAL OF MINUTES.
 - a. Motion to approve the minutes of the December 9, 2024, Sustainability & Natural Resources Committee meeting.
 - b. Motion to approve the minutes of the February 11, 2025, joint meeting of the Sustainability & Natural Resources Committee and Village Board.
4. BUSINESS.
 - a. Presentation of forestry operations for 2024 and 2025 outlook
 - b. Discussion on the Commissioning Report of the Village's Public Safety Center presented by HGA.
 - c. Discussion and action to submit the Village of McFarland's 2024 Green Tier Annual Report to the Wisconsin Department of Natural Resources.

5. SCHEDULE NEXT MEETING DATE.

- a. Monday, April 14, 2025, at 6:00 p.m.

6. ADJOURNMENT.

Any person who has a qualifying disability as defined by the Americans with Disabilities Act that requires the meeting or materials at the meeting to be in an accessible location or format should contact the McFarland Municipal Center at (608)838-3153, 5915 Milwaukee Street, McFarland, Wisconsin, or village.clerk@mcfarland.wi.us by 2:00 p.m. at least 5 business days prior to the meeting so that any necessary arrangements can be made to accommodate each request. If the meeting or request is less than 5 business days from the meeting, requests for accommodations may still be made and reasonable efforts will be made to accommodate each request.

**Minutes
Sustainability & Natural Resources
Committee Meeting
December 9, 2024**

Members Present: Michael Allen, Angela Freedman, Nina Schultz, Lori Whitman

Members Absent: Miguel Pena, Alisa Leamy, Judy Taber

Staff Present: Lee Igl, Public Works Director; Sayer Larson, Parks Superintendent; Kong Thao, Associate Planner; Phil McDade, utility clerk.

1. CALL TO ORDER

Carolyn Clow, village board president sitting in on the meeting, called the meeting to order at 6:01 p.m.

2. PUBLIC APPEARANCES.

No public appearances.

3. APPROVAL OF MINUTES.

a. **Motion to approve the minutes of the September 9, 2024, Sustainability & Natural Resources Committee meeting.**

Freedman motioned, Allen seconded, to approve the September 9, 2024 minutes of the Sustainability & Natural Resources Committee. Motion approved 4-0.

4. BUSINESS.

a. **Discussion regarding 2024 street and park tree planting.**

Larson discussed the village tree planting program for 2024. A total of 85 trees were planted in the village in 2024, with 62 of those planted in the Exchange Street corridor. Exchange Street was rebuilt and expanded in 2024, and approximately 30 trees were removed in the spring and summer as part of the project. Larson reviewed with the committee the challenge of planting trees in the terrace of Exchange Street, as underground utility lines often interfere with planting locations.

b. **Discussion on OEI EIGP Grant update.**

Thao updated the committee on a grant amendment request to the Wisconsin Office of Energy Innovation regarding a micro-grid/battery system at the Public Safety Center. The village has asked the OEI to allow the grant funding to be transferred for use at the planned expanded municipal community center in McFarland. Thao said the OEI is reviewing the amendment request and will likely provide a response to the village within a few months.

c. Discussion regarding the update Village's Comprehensive Outdoor and Recreational Plan.

Thao reviewed the draft plan of the village's CORP, with plans to conduct a public information meeting on it in January 2025. The plan will also be reviewed by the village's Parks & Recreation Committee in February, with possible review and adoption by the Village Board in late February or early March.

5. SCHEDULE NEXT MEETING DATE

- a. Monday, January 13, 2024 at 6:00 p.m.

6. ADJOURNMENT.

Freedman motioned to adjourn; Schultz seconded. Meeting adjourned by unanimous consent at 6:38 p.m.

Respectfully submitted,

Phil McDade, utility clerk

Minutes
Village Board/Sustainability & Natural Resources
Joint Committee Meeting
February 11, 2025

Committee Members Present: Alisa Leamy, Miquel Pena, Lori Whitman, Nina Schultz, Michael Allen

Committee Members Absent: Angela Freedman

Village Board members Present: Carolyn Clow, Stephanie Brassington, Luke Fessler, Lowell Prill, Hilary Brandt (5:45 p.m.), Miguel Pena, Alisa Leamy

Staff Present: Matt Schuenke, Village Administrator; Andrew Bremer, Community and Economic Development Director; Sayer Larson, Parks Superintendent; Kong Thao, Associate Planner; Phil McDade, Utility Clerk.

1. CALL TO ORDER

Village Board President Carolyn Clow called the joint meeting to order at 5:30 p.m.

2. PUBLIC APPEARANCES.

No public appearances.

3. BUSINESS.

a. **Discussion regarding a Styrofoam recycling program organized by Lori Whitman.**

Committee member Whitman discussed the Styrofoam recycling program she initiated shortly after her retirement. She began the program by printing up flyers, distributing them around the village, and offering to pick up Styrofoam that she takes to a Madison Styrofoam recycler. Since this fall, she has dropped off about 1,200 cubic feet of Styrofoam for recycling. Village Board member Brassington suggested reaching out to the village's Community Service Day and Family Festival organizers to help raise awareness of the recycling program.

b. **Discussion regarding amendments to the Village's Office of Energy Innovation Grant.**

Bremer discussed with the committee efforts by village staff to use the village's Office of Energy Innovation grant, previously targeted for battery storage and microgrid technology at the Public Safety Center, for use in a renovated Village Community Center. Using the grant in such a way requires review by the state Public Service Commission. Bremer said that review should be made public within a month or so.

c. Discussion regarding the Sustainability Action Plan for 2025-2026.

Thao reviewed progress on the village's sustainability initiatives including: the village achieving a SolSmart Gold designation for sustainability programs; completion of the Exchange Street project which included designated bicycle lanes and additional sidewalks; and completion of an Urban Forestry Management Plan among other accomplishments. For 2025-26, the village will continue work on its 8-acre solar farm; work with the McFarland School District on renewable energy credits; and undertake a comprehensive review of its zoning code, among other initiatives.

4. SCHEDULE NEXT MEETING DATE.

- a. Monday, March 10, 2025 at 6:00 p.m.

5. ADJOURNMENT.

Leamy motioned to adjourn; Schultz seconded. Motion carried by unanimous consent. Meeting adjourned at 6:23 PM.


McFarland
SUMMARY SHEET

MEETING DATE: Monday, March 10, 2025

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Sayer Larson, Parks Superintendent

AGENDA ITEM: Presentation of forestry operations for 2024 and 2025 outlook

PREVIOUS ACTION:

None.

ISSUE SUMMARY:

The following provides a summary of forestry operations for 2024 and a high-level overview of 2025.

Actions completed in 2024

Completed 2023 WI DNR Urban Forestry Grant – reimbursement submitted and received.
Contracted Tree removals completed – 6
Removal of failed oak on linear mound in Indian Mound Conservancy (Contracted)
Street and park stumps ground - 46 (1 contracted)
Street and park trees trimmed - over 600* (staff)
Street and park trees planted - 82 (Zones 3 and 4 - contracted)
Replacements – 3 failed trees from 2023 planting replaced (contractor)
Park trees planted - 6 containerized trees at disc golf course (staff)
No street trees watered this year...fair to good moisture conditions
Exchange St saw logs donated to McFarland School District
EAB treatment cycle – 49 ash trees remaining in inventory (street and park). 26 treated.
Tree City USA status – Both annual application and growth award have been approved as of Feb 28th.

Actions from 2024 still in progress

EAB treatment cycle year – 8 park trees needing treatment
Complete Zone 4 trimming

2025 Outlook

Arbor Day Celebration - Friday April 25th
Continue treatment of holiday tree (contracted)
Contracted trimming of large cotton wood trees at McDaniel Park
Street and park tree trimming - Zone 2 (move to Zone 1 time permitting)



Street and park tree planting - Zone 2 and 3 (Contracted)
Rosewood Fields development street tree planting - phase 2 & 3
Select street tree removals
Updating GIS tree inventory

FINANCIAL/BUDGET IMPACT:

2024 contracted services totaled \$32,330. This includes tree removals, stump grinding, and planting.

VILLAGE PLAN REFERENCE:

2024 Urban Forestry Management Plan

ORDINANCE REFERENCE:

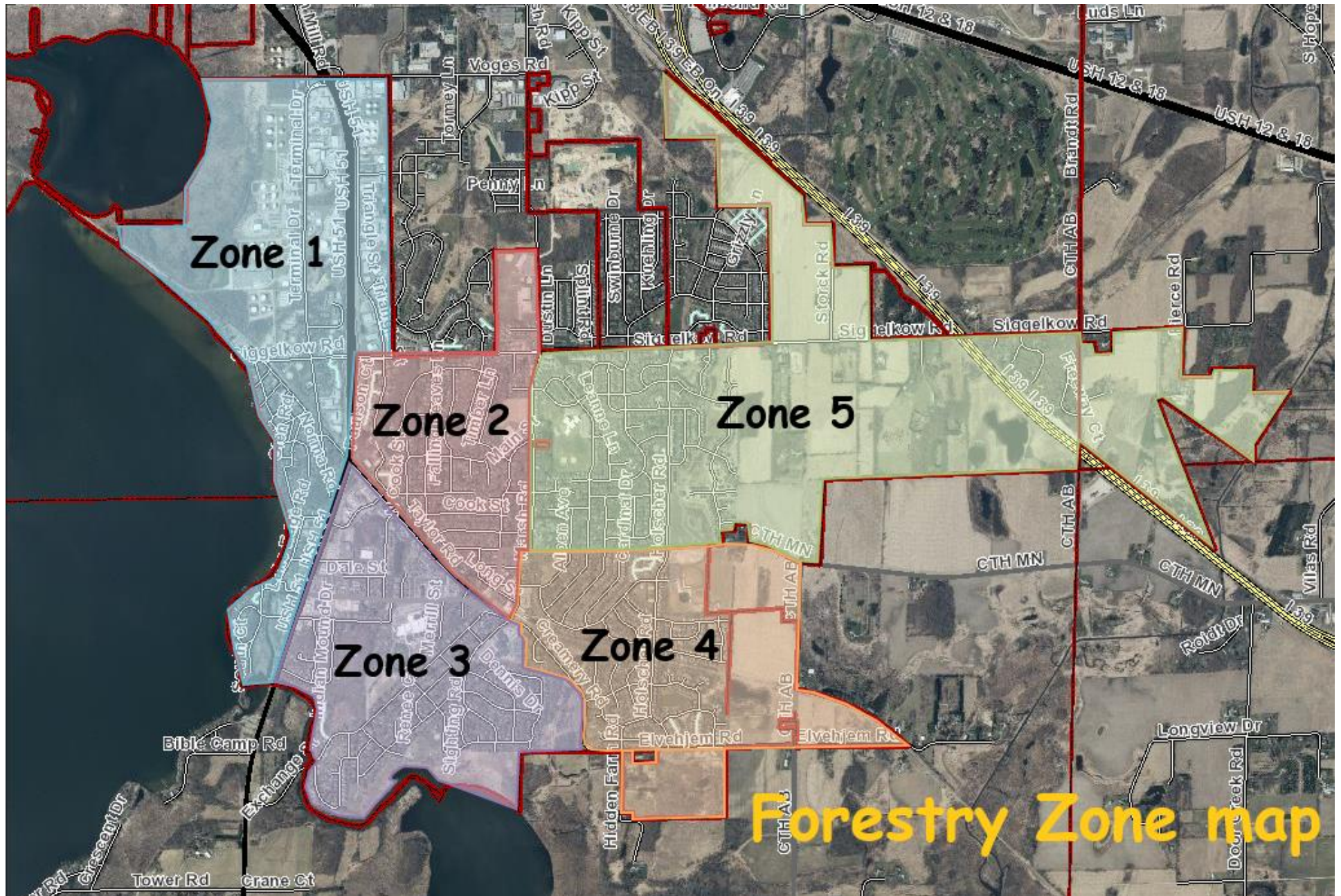
Chapter 59 Article II Trees and Shrubs

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

This item is discussion only.

ATTACHMENTS:

1. Forestry Zones




VILLAGE OF
McFarland
SUMMARY SHEET

MEETING DATE: Monday, March 10, 2025

SECTION: Business

DEPARTMENT: Community Development

CONTACT: Andrew Bremer, Comm & Eco Dev Director, Kong Thao, Associate Planner

AGENDA ITEM: Discussion on the Commissioning Report of the Village's Public Safety Center presented by HGA.

PREVIOUS ACTION:

January 8, 2021 HGA completion of Net Zero Energy Feasibility Study for planned Public Safety Center
2021-2023, building design and construction
August 28, 2023 Public Safety Center occupancy

ISSUE SUMMARY:

As part of their service agreement with the Village, HGA has been assisting the Village with post-construction commissioning of the Public Safety Center. These efforts include making sure that building equipment and controls are functioning properly. These efforts also include reviewing the amount of nonrenewable and renewable energy used at the PSC to determine how well the building is performing compared to pre-construction design modeling. HGA has studied a full year's of energy data from 2024 and will provide the Committee with a presentation on the benefits the building has provided in terms of renewable energy use and how initial energy use and on-site generation have compared to pre-construction design modeling.

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

This agenda item is presented for discussion only.

ATTACHMENTS:

1. McFarland MV Updates 2_27_2025 _rev4

HGA

Measurement and Verification Updates
McFarland Public Safety Building

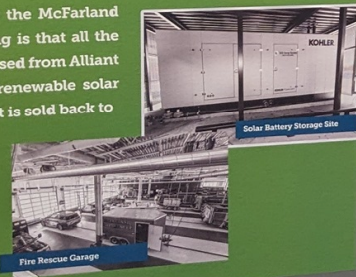
February 2025, Rev. 4



NET ZERO ENERGY

The U.S. Department of Energy defines net zero energy as the following: "An energy-efficient building where, on a source energy basis, the actual annual delivered energy is less than or equal to the on-site renewable exported energy".

What this means for the McFarland Public Safety Building is that all the energy that is purchased from Alliant Energy is offset by renewable solar photovoltaic (PV) that is sold back to the grid. At the end of each year, the amount of energy purchased and sold equals zero.



SOLAR PV

To achieve net zero energy, the building energy use must be offset with energy produced through onsite renewable generation. The easiest method for producing renewable energy at the building is with a rooftop solar photovoltaic (PV) systems.

The roof mounted solar PV system at the McFarland Public Safety Building consists of 1,146 solar PV panels with a total maximum power output of 470 kW DC combined. This is converted to power the building can use with seven solar inverters at the top of the stairwell.



GEO THERMAL

To make the building as energy efficient as possible, the McFarland Public Safety Building uses a geothermal heating and cooling (HVAC) system. A geothermal system is composed of a borefield, heat pumps and a glycol fluid loop. The fluid is circulated between the ground and the building to provide heating, cooling and ventilation with water source heat pumps.

At the Public Safety Building, we have a field of 51 geothermal bores that are 400-feet deep under the front parking lot. These are connected to heat pumps and the garage radiant heated floor system through a piping system that is filled with a glycol heat exchanger fluid.



ENERGY EFFICIENCY

The high performance envelope includes additional roof insulation (minimum 5-inches of board insulation, spray foam insulated walls (3-4-inches thick) and high performance glazing. LED lighting throughout the building provides a low power usage solution that works with daylighting from the windows. The clerestory windows in the lobby and police station also provide natural light to offset lighting power, as well as overhangs to minimize solar heat gain and glare.



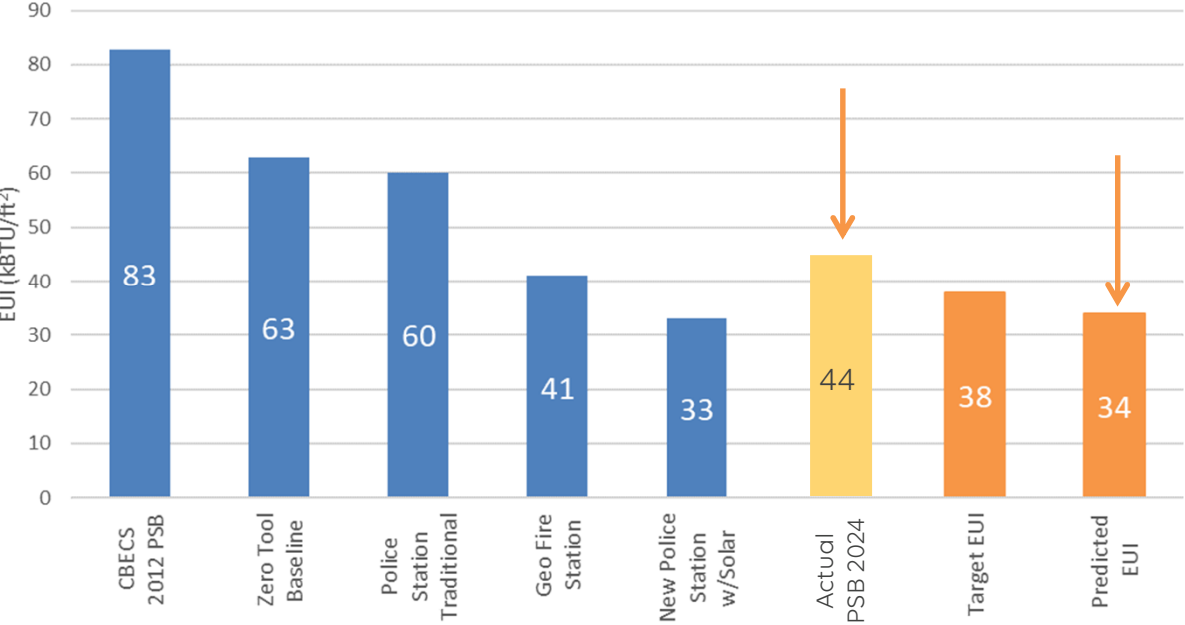
M&V TIMELINE

- August 2023 – Owner Move-in
- October 2023 – Ribbon Cutting
- January 2024 – Begin Initial M&V Period
- December 2024 – End Initial M&V Period
- February 2025 – Data Review and Next Steps



Solar PV System Tour

Building Energy Use Performance - EUI

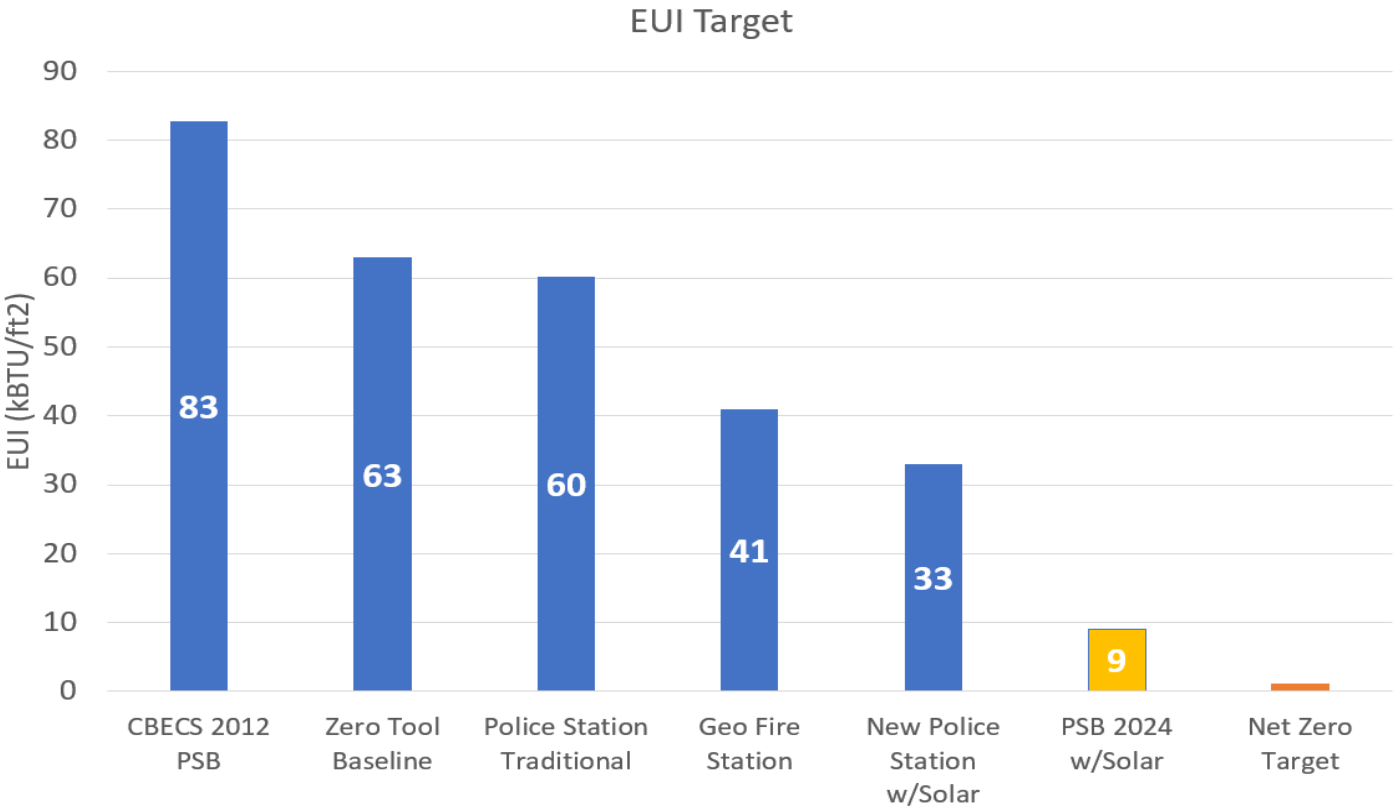


What is Energy Use Intensity?

Energy Use Intensity (EUI) measures a building's energy usage relative to its size, expressed in kBtu per square foot per year. These numbers exclude solar generation.

Current Building Performance (2024 Data):
47% decrease in EUI compared to average PSB type building
30% decrease in EUI compared to zero tool baseline

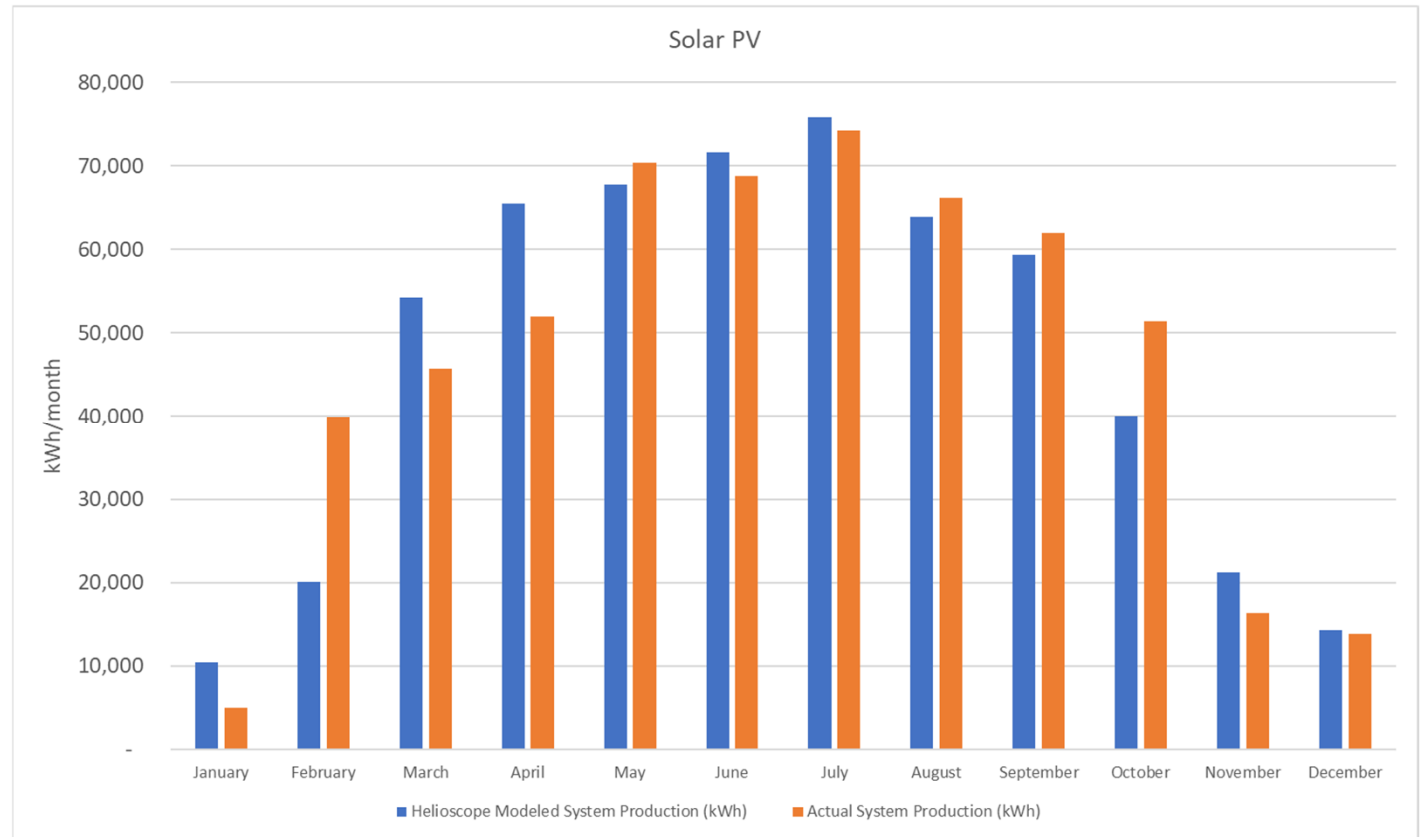
Building Energy Use Performance - EUI



Net EUI takes into account solar PV production

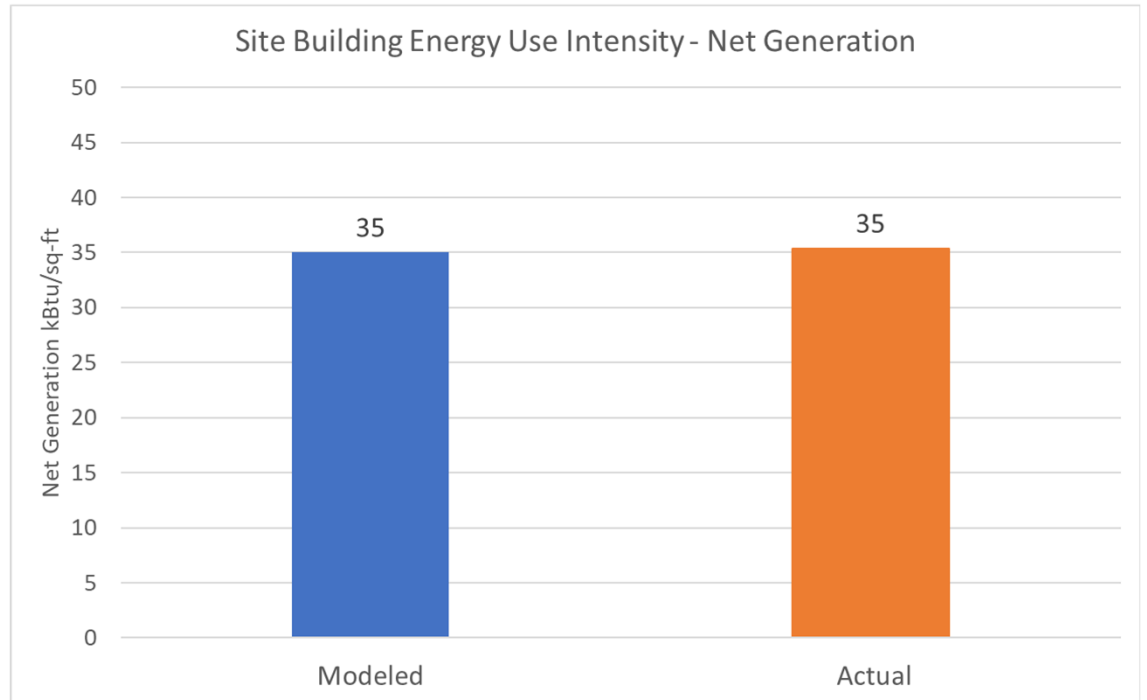
2024 MONTHLY GENERATION ANALYSIS – ONLY SOLAR

- Model was not calibrated to actual weather
- No obvious trends by season
- Results aligned with expectations



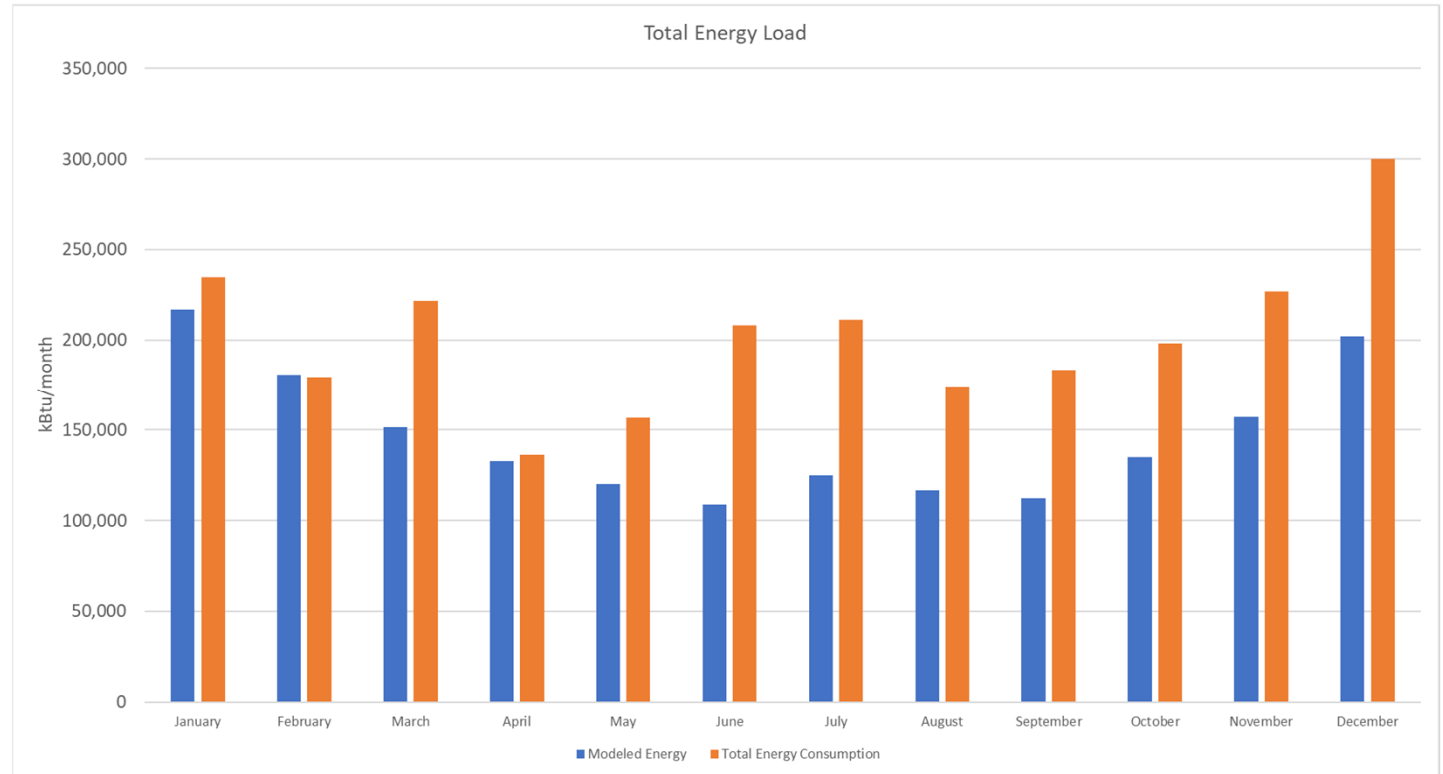
2024 ANNUAL GENERATION ANALYSIS – ONLY SOLAR

- Modeled solar generation was the same as actual generation
- Produced 1,213 kwh/kw which is inline with expectations
- Solar generation equivalent to the annual electric use of 67 typical Wisconsin homes



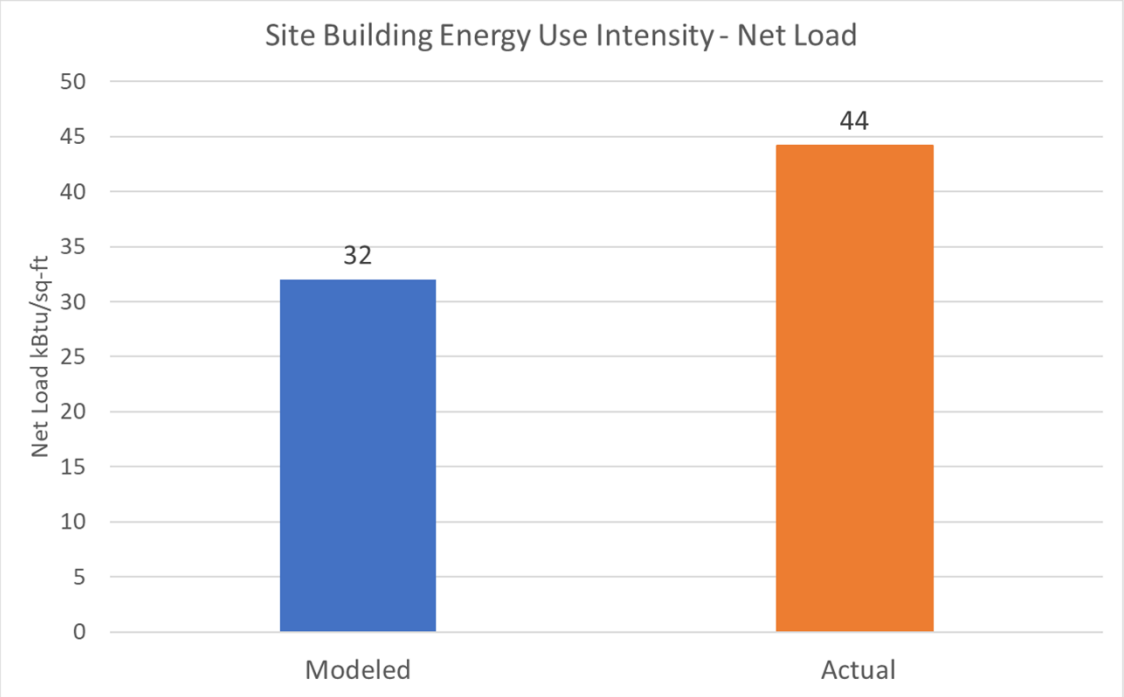
2024 MONTHLY NET LOAD ANALYSIS – LOAD ONLY, NO SOLAR

- Model was not calibrated to actual weather
- No obvious trends by season
- Actual was greater than modeled nearly every month



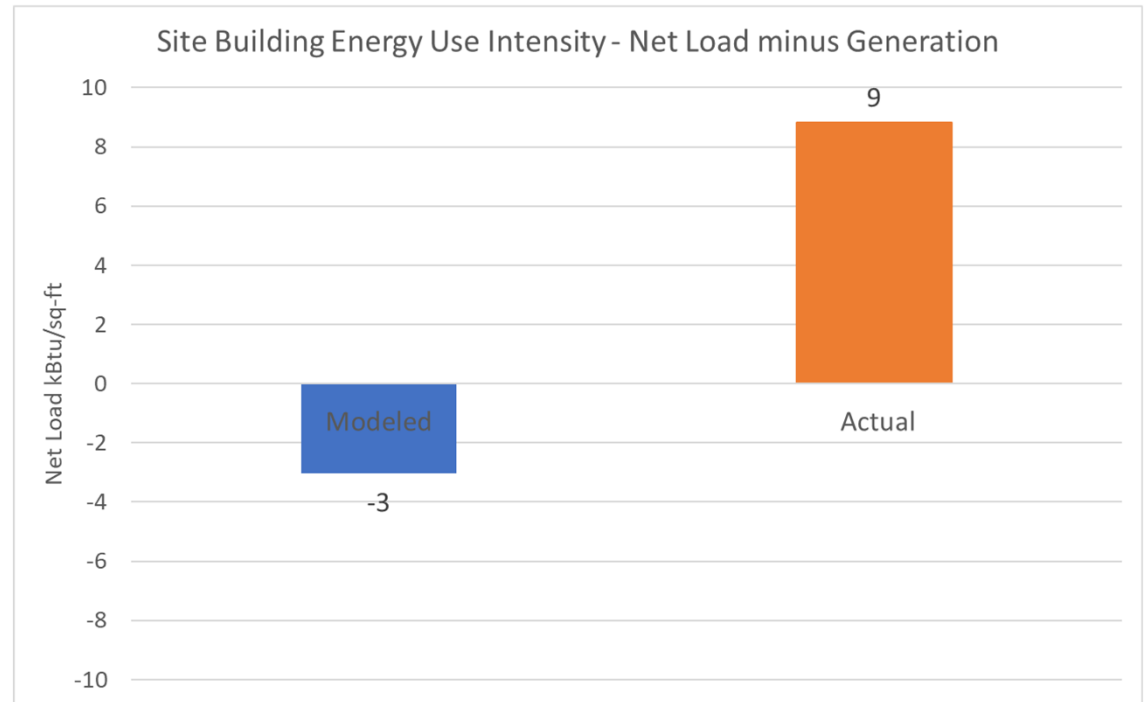
2024 ANNUAL ENERGY ANALYSIS – LOAD ONLY, NO SOLAR

- Load greater than predicted by 38%



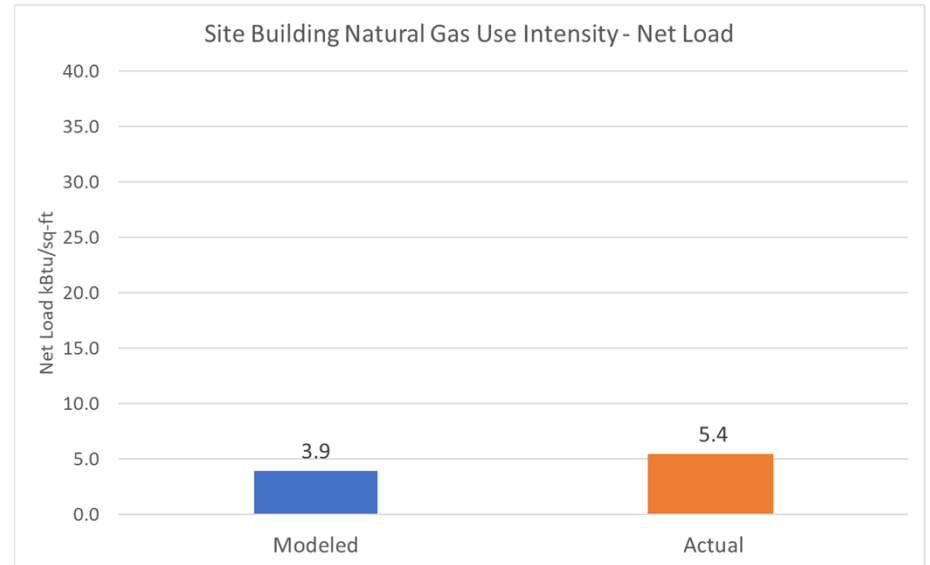
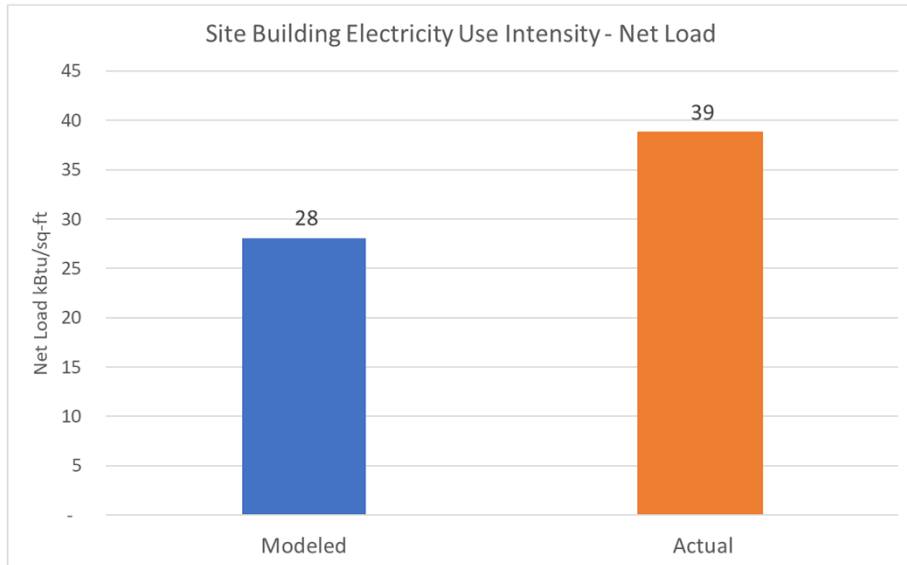
2024 ANNUAL NET LOAD ANALYSIS – LOAD AND SOLAR PV

- Actual EUI was 12kBtu/sq-ft greater than modeled
- PSB used 86% less energy than a code baseline building
- Reduction of 9kBtu/sf in 2025 would achieve a “net -zero energy”



2024 ANNUAL NET LOAD ANALYSIS – SEPARATED ELECTRIC AND GAS

- Biggest impact to annual being EUI greater than modeled was predominately due to greater electricity use.

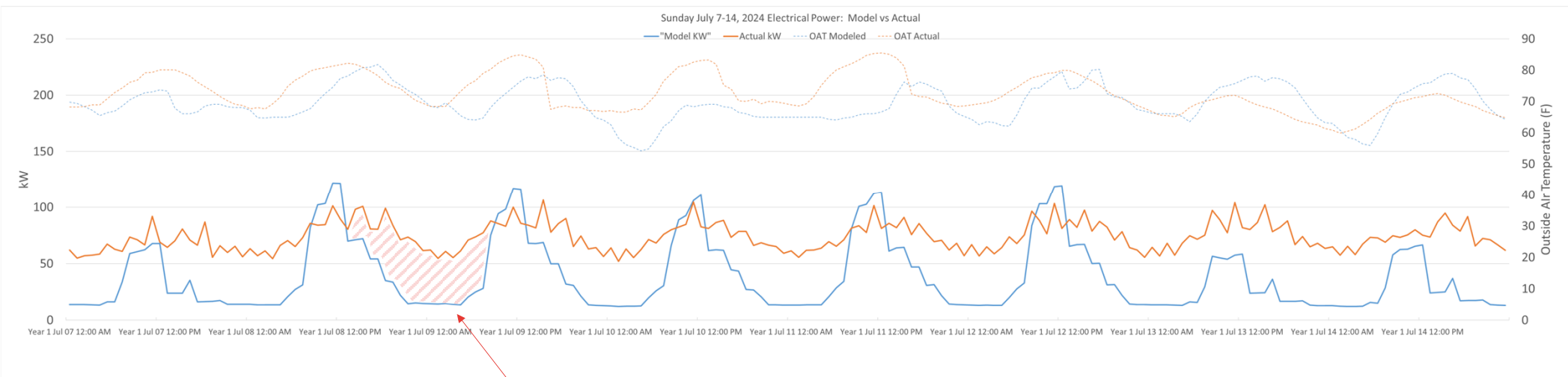


*Kitchen and domestic hot water utilize natural gas onsite

WHERE DO WE INVESTIGATE ENERGY USAGE

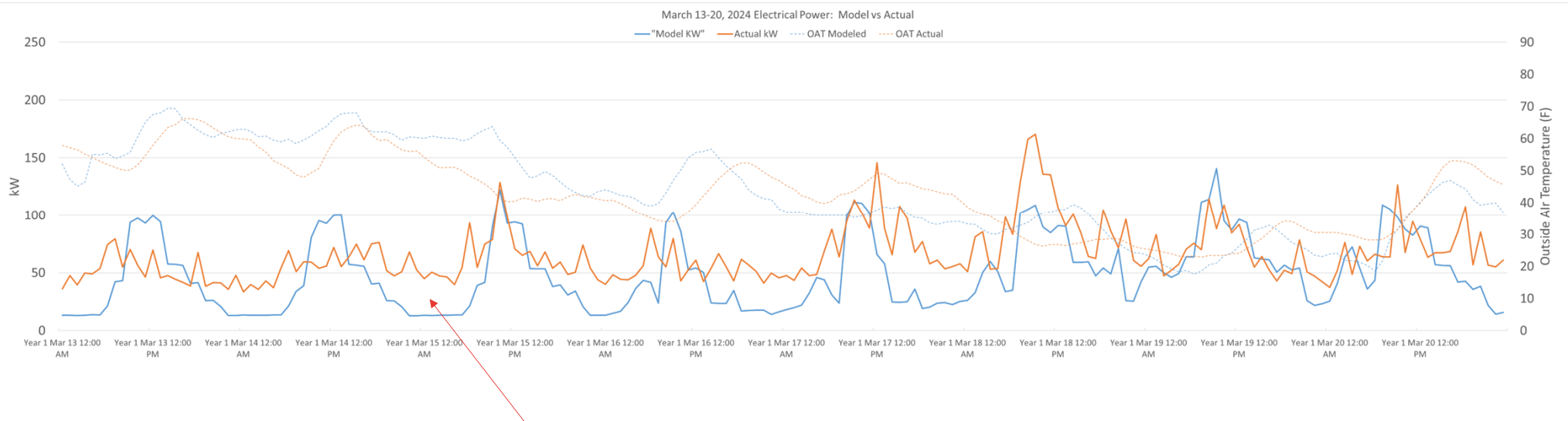
- Evaluated hourly loads and compared to hourly meter data
- What are the trends?
- What time of day do we deviate from the model?

HOURLY PROFILES- SUMMER



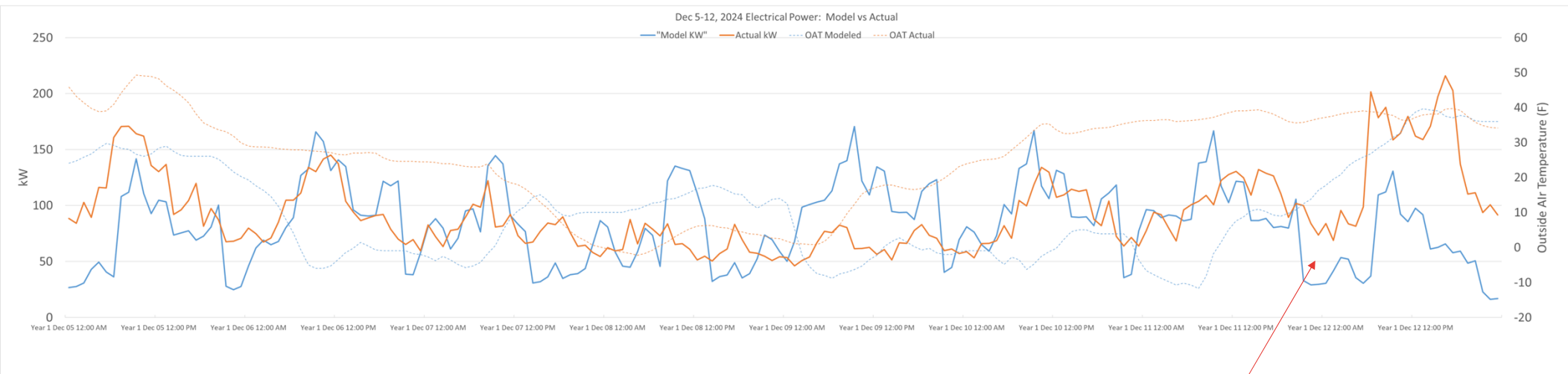
Actual nighttime usage (baseload) is higher than modeled

HOURLY PROFILES- SHOULDER SEASON



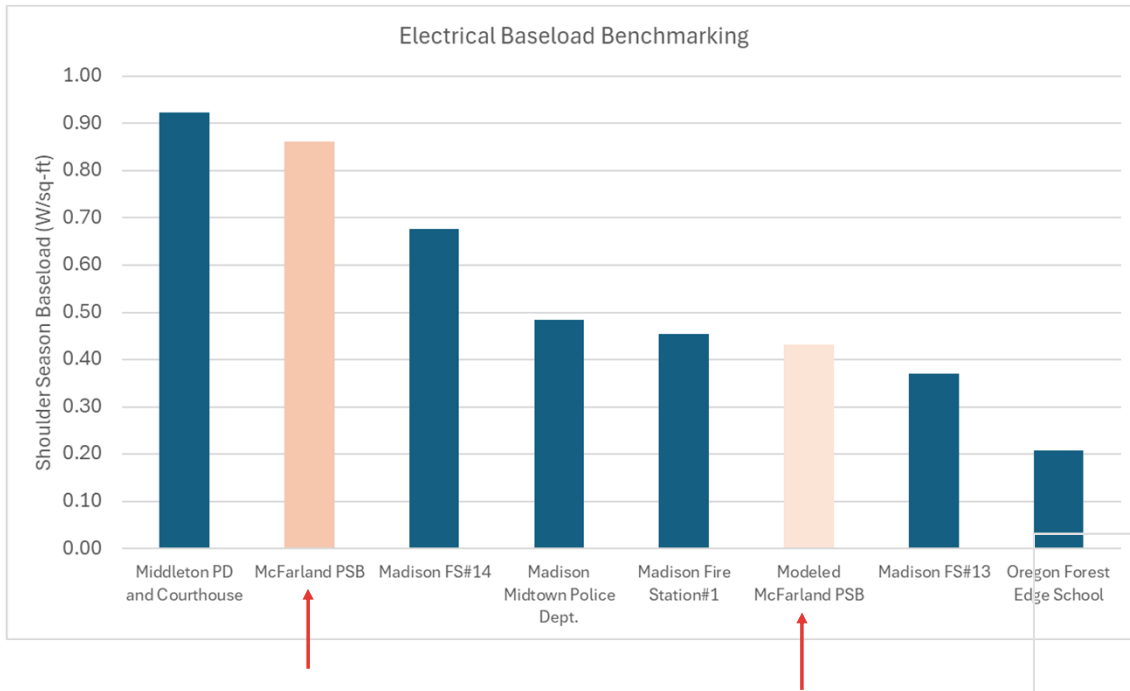
Actual nighttime usage (baseload) is higher than modeled

HOURLY PROFILES- WINTER SEASON



Difference in baseload is less obvious in winter, but appears as outside air temperature increases

BASELOAD BENCHMARKING



- Reducing baseload by 50% would achieve net zero building
- Target baseload reduction is 22kW
- While target reduction is significant it is inline with other comparable buildings
- Baseload power sources need to be further investigated

What does "baseload" mean?

The minimum amount of electricity required over a given period. Baseload can also be thought of as the off-peak minimum power consumption of the building measured in Watts per square foot.

Building	Square Footage	Year Opened	Geothermal ?	Shoulder Season Baseload (kW)	Shoulder Season Baseload (W/sq-ft)	Annual Baseload (EUI, kBtu/sf, electric only)
Middleton PD and Courthouse	52,000	2010	-	48	0.92	27.6
McFarland PSB	58,000	2023	Y	50	0.86	25.8
Madison FS#14	19,232	2018	Y	13	0.68	20.2
Madison Midtown Police Dept.	31,000	2018	-	15	0.48	14.5
Madison Fire Station#1	55,000	2015	-	25	0.45	13.6
Modeled McFarland PSB	58,000	2023	Y	25	0.43	12.9
Madison FS#13	13,500	2014	Y	5	0.37	11.1
Oregon Forest Edge School	120,000	2021	Y	25	0.21	6.2

NEXT STEPS

- Investigate contributions to baseload energy usage
 - Geo pumping power, can we implement a dp pressure reset strategy
 - Reconfirm heat pump and DOAS geo isolation valves are closing when compressors are off
 - Are IT loads higher than predicted?
 - Are there other loads that can be scheduled or reduced?
 - Is there any additional equipment that can be scheduled?
 - Review metered loads at night and lower occupancy times
 - Spot check potential high load areas with amp draw measurements
 - Additional items?



BIG PICTURE TAKEAWAYS

- Building energy performance far exceeds a code baseline building – using 86% less energy!!!
- Solar generation was inline with expectations, and generated the equivalent of the annual electric usage of 67 homes
- To achieve net zero energy certification, additional energy savings are required
- Building energy optimization is a normal part of the Measurement & Verification process



McFarland Public Safety Building



BRAYARCHITECTS
HGA




VILLAGE OF
McFarland
SUMMARY SHEET

MEETING DATE: Monday, March 10, 2025

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Kong Thao, Associate Planner

AGENDA ITEM: Discussion and action to submit the Village of McFarland's 2024 Green Tier Annual Report to the Wisconsin Department of Natural Resources.

PREVIOUS ACTION:

ISSUE SUMMARY:

The Wisconsin Department of Natural Resources (WDNR) established the Green Tier Legacy Communities (GTLC) network to advance sustainable practices and stretch limited local government resources. GTLC offers regional collaboration opportunities and additional grant point consideration for select state grants, grant notifications and opportunities for joint grant applications. As part of the program, participating communities are required to provide the WDNR with an annual report. The 2024 Green Tier Annual Report will be the Village's fourth annual report submitted to the Wisconsin Department of Natural Resources. All subsequent data for the reporting reflects activity achieved in 2024.

Through GTLC's website, communities may input the data according to the year and provide updates on previous years as needed. The packet includes a simplified copy of the Village's 2024 metrics and supporting actions spreadsheets to be imputed to the website. The data has been collected through collaborative efforts across all Village departments. Staff note that the due date for reports to be submitted is March 31st. The supporting actions are intended to be recommendations, and not required by GTLC. This does not compel the Village and its Staff to pursue any of the mentioned recommendations, but may be incorporated into future plan development. Below are some highlights from the report comparing the past four years of data reporting.

Energy & Emissions. Renewable Energy Generated from Solar. Total generated since 2021, 126.86 MWh since 2021.

- 34.20 MWh (2024)
- 35.22 MWh (2023)
- 33.03 MWh (2022)
- 24.41 MWh (2021, year of installation)

Transportation Systems. Cumulative miles of complete streets.



- 58.32 miles (2024), an increase of 0.57 miles from 2023
- 57.75 miles (2023)
- 57.7 miles (2022)
- 56.06 miles (2021)

Water Quality & Conservation. Community Water Use

- 21,887.25 gal/capita (2024), a decrease of 2,980.59 from 2023
- 24,867.84 gal/capita (2023)
- 23,882.35 gal/capita (2022)
- 24,584.82 gal/capita (2021)

Solid Waste. Landfill waste reduction (pounds per capita)

- 426.11 (2024)
- 440.61 (2023)
- 460.31 (2022)
- 468.81 (2021)

Health & Equity. Volunteerism in local government includes Village hosted events, committees and work groups.

- 612 (2024)
- 591 (2023)
- 358 (2022)
- 121 (2021)

FINANCIAL/BUDGET IMPACT:

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

Sec. 2-398(a). - Sustainability & Natural Resources Committee

(a) Reviewing and submitting annually to the Wisconsin Department of Natural Resources the Village's Green Tier Legacy Community Annual Report and advising on the implementation of recommended Green Tier strategies.

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

Recommended motion:

Motion, and second, to approve submittal of the Village of McFarland's 2024 Green Tier



Annual Report to the Wisconsin Department of Natural Resources.

ATTACHMENTS:

1. GTLC Metrics VOM 2024_03.04.2025
2. GTLC Supporting Actions VOM 2024_03.04.2025

Energy & Emissions

Metric ID	Metric	Data Format	Description	Annual Data	GTLC Member Notes
ER-1	Municipal Use of Renewable Electricity	%	Percentage of the local government's (GTLC member's) overall electricity consumption that comes from renewable energy sources.	0.019689176	
ER-2A	Community Electricity Use	Annual kWh per capita	Electricity use in the member community	341.11	(Alliant Energy: 1,736,995 kWh + MG&E: Commercial/Industrial 21,258 + MG&E Residential 1,542,299)/9676
ER-2B	Community Natural Gas Use	Annual therms per capita	Natural gas use in the member community	39.08	(Alliant Energy: 36,539 Therms + MGE Commercial/Industrial 651 Therms + MGE Residential X Therms)/ 9,676
ER-3A	Government Electricity Use	Annual kWh per capita	Gross electricity consumption (kWh) by the local unit of government (GTLC member)	175.98	Total Municipal annual electricity consumption (kWh) = 1,736,995; Renewable Energy generated from Public Works Solar = 34.2 MWh = 34,200 kWh; DOA Population Est. in 2023 = 9,676
ER-3B	Government Natural Gas Use	Annual therms per capita	Total natural gas consumption (Therms) by the local unit of government (GTLC member)	3.84	(Alliant - 36,539 Therms) + (MGE - 651 Therms); DOA Pop est. = 9,676
ER-3C	Government Fuel Oil Consumption	Gallons per capita	Total building fuel oil consumption (gallons) by the local unit of government (GTLC member)	0.00	0 gallons of fuel; DOA Pop est. = 9,676
ER-3D	Government Propane Consumption	Lbs per capita	Total building propane consumption (pounds) by the local unit of government (GTLC member)	0	Total Municipal propane consumption = 0; DOA Population est. = 9,676
ER-4	Government building Energy Use Intensity (EUI)	kBtu/sq ft	Overall energy use intensity of all consistently occupied buildings owned by the local unit of government (GTLC member).	84.79	Total Municipal annual electricity consumption (kWh) = 1,736,995 (-27,968 kWh from US Hwy 51 Lighting, -942 kWh from Flower Corner, -23 kWh from 4905 Farwell Flasher, -39 kWh from Creamery Rd Flasher, -69 from 5204 Farwell Flasher, and -142 from Bashford Flasher); after kWh to kBtu conversion = (DIFF * 3.412); Total Municipal annual gas consumption (Therms) = 36,943+651; conversion of Therms = 37,594*100; Total fuel = 24,632.81 conversion (fuel *138.5) = 3,411,644.19; total sf of all "enclosed" buildings = 153,299 sf
ER-5A	Number of sustainable government buildings	Count	Number of sustainability-certified buildings owned by the local unit of government (GTLC member).	1	Net Zero Public Safety Center Completed in 2023
ER-5B	Number of sustainable buildings in the community	Count	Number of sustainability-certified privately owned buildings in the member community	1	Net Zero Public Safety Center

ER-6	GHG emissions intensity - government facilities	Metric tons per capita	Metric tons of carbon dioxide equivalents (CO2e) emitted from energy consumed by government buildings	185.56	Alliant Energy = 1,736,995 kWh & 36,539 Therms; and MGE - 21,258 kWh & 651 Therms. DOA Pop. Est. = 9,676
ER-7	Transportation fuel use	Gallons per capita	Gallons of gasoline and diesel transportation fuel used by vehicles owned by the local government.	2.55	24,632.81 gallons of fuel; DOA Pop est. = 9,676
ER-8A	Hybrid and electric vehicles	Number	Number of EVs and hybrids in the local government's (GTLC member's) fleet.	1	1 EV: 45 Total vehicles
ER-8B	Hybrid and electric vehicles	%	Percentage of EVs and hybrids in the local government's (GTLC member's) fleet.	2%	1 EV: 45 Total vehicles
ER-9A	Alternative fuel vehicles	Number	Number of alternative fuel vehicles in the local government's (GTLC Member's).	0	
ER-9B	Alternative fuel vehicles	%	Percentage of alternative fuel vehicles in the local government's (GTLC Member's).	0	

Transportation Systems

Metric ID	Metric	Data Format	Description	Annual Data	GTLC Member Notes
TS-1A	Miles of bike infrastructure	miles of bikeways / centerline miles of motor vehicle roads	Miles of designated bike ways and biking infrastructure like painted bike lanes, designated bike boulevards, bike paths/shared paths, etc.	0.47	26.32 miles of bikeways / 55.75 miles of ROW (no change or additional street)
TS-1B	Miles of Pedestrian Infrastructure	Miles	Miles of designated pedestrian infrastructure like sidewalks, trails, pathways, etc.	32	168,976.78 feet of pedestrian walkways/infrastructure; (168,976.78 / 5280 =32.00)
TS-2	Walking infrastructure	Walk score average	Average Walk Score for the community	63	Find Apartments for Rent and Rentals - Get Your Walk Score
TS-3	Increase in complete streets	Count	Cumulative miles or feet of complete streets projects constructed	58.32 mi or 307,970.05 ft	138,993.27 ft or 26.32 mi of bikeways; 168,976.78 feet or 32 miles of pedestrian walkways and infrastructure
TS-4	Publicly accessible EV charging stations	Count	Number of publicly accessible EV charging stations	0	
TS-5	Traffic fatalities & serious injuries	Number per capita	number per capita	1	0 fatality, 1 suspected serious injury; DOA Pop est. = 9,625

Land Use

Metric ID	Metric	Data Format	Description	Annual Data	GTLC Member Notes
LU-1	Number of known polluted sites	(% of known sites)	Percent of known brownfield sites that have been remediated in the municipality or county. If none, then state NA.	99%	163/164 activities found
LU-2	Total green space acreage	acres	Total healthy green space acreage that is publicly accessible, including parks, natural areas, wildlife corridors, etc.	504.6	273.9 acres for VOM only (Includes Inclusive Park and Community Park); 230.7 acres School District and Dane County
LU-3	Accessibility and connectivity of trails and paths	miles per capita	Miles of recreational trails or shared use pathways per capita	0.001302191	66,607.5 ft Shared use paths = 12.6 mi; DOA: 9676 pop est.
LU-4	Accessibility to open green space and parks	% of residential properties within .5 miles	Percent of all residential properties within .5-mile radius of dedicated open green spaces or parks.	99%	
LU-5	Tree canopy	% of tree canopy maintained by Muni/County	Estimate the percent of City or County managed tree canopy that received inspections or maintenance from municipal or county staff or a hired consultant in the reporting year.	15%	As provided by Village Forester
LU-6	Impervious area	% Imperviousness City Wide	Decrease or maintain amount of impervious surfaces within the municipality		
LU-7	Flood vulnerability	% of Total Properties	Percent of all properties within the county or municipality that are impacted by the 100-year floodplain, flood storage district, floodway, or flood fringe.		
LU-8	Land conservation practices	Acres held for conservation	Number of acres held primarily for conservation (this can include acres that are accessible for recreational purpose) in deeds or by conservationist groups, including those held by public institutions. Must be publicly accessible.	277.97	Total area of CO zoned parcels = 277.97 (2022); No change occurred in conservation lands added or lost.
LU-9	Sustainable agricultural practices	Acres dedicated for sustainable practices	Number of acres of agricultural land that has been voluntarily dedicated for sustainable conservationist agricultural practices.	N/A	

Water Quality and Conservation

Metric ID	Metric	Data Format	Description	Annual Data	GTLC Member Notes
WQC-1	Surface water pollutants – Phosphorus	%	Phosphorus runoff aggregated for the entire municipality	35%	Data from MS4; Adaptive Management Plan
WQC-2	Surface water pollutants - Suspended solids	%	Suspended solids in stormwater runoff aggregated for the entire municipality	47%	Data from MS4; Adaptive Management Plan
WQC-3	Surface water pollutants - illicit discharges	%	Percent of municipally managed stormwater outfalls inspected for illicit discharges of pollutants	100%	Data from MS4
WQC-4	Water use – Government	gallons per capita	Total volume of water used in municipal operations	67.08 gallons/capita	MC 120,000; PW 186,000; Legion 61,000; Library 68,000; Youth Center 39,000; PSC 146,000. TOTAL 620,000 Population DOA 9,676
WQC-5	Water use – Community	gallons per capita	Total volume of water used in the community	21,887.25 gallons/capita	211,781,000 gallons pumped in 2024 Population DOA 9,676
WQC-6	Water use – All	%	Percent water loss in water utility system	7.90%	211,781,000 gallons pumped in 2024. 194,969,241 Billed in 2024
WQC-7	Maintain clean potable water resources	%	Percent of the known number of existing lead water service lines replaced during reporting year, if completed, please state 100%	NA	No known lead service lines.
WQC-8	Surface water pollutants – Salt	pounds per mile	Pounds of salt applied during snow and ice management per miles of streets receiving snow and ice maintenance	10,666.67 lbs per mile	Salt 480 tons; Brine 2250; Lane Miles 90
WQC-9	Surface water pollutants – Sewer Inspections	%	Percent of sanitary sewer annually inspected by televising sewer lines or by some other method	33%	1/3 of the village is inspected by televising per year
WQC-10	Surface water pollutants - manholes and grease traps	%	Percent of sanitary manholes and grease traps inspected each year.		Manholes 33%; Grease traps 50%

Solid Waste

Metric ID	Metric	Data Format	Description	Annual Data	GTLC Member Notes
SW-1	Landfill Waste	Tons/yr or cu. yds/yr, per capita	Annual tonnage of waste received at landfill locations (both municipal and residential).	0.22	62.4 Tons (Municipal); 2061.5 Community; DOA pop est. 9676; Communit
SW-2	Recycling	Tons/yr or cu. yds/yr, per capita	Annual tonnage of recyclable waste received at recycling locations (both municipal and residential).	0.09	31.2 tons (Municipal); 815.48 tons (Community); DOA Pop. Est. = 9,676
SW-3	Composting	Tons/yr or cu. yds/yr, per capita	Annual tonnage of compostable organic waste received at municipal composting locations or annual tonnage of waste sent to private composting locations.	0	No composting
SW-4	Contamination rate	% of Total Waste Tonnage	Rate of cross-waste stream contamination	0	
SW-5	Construction and Demolition Waste	% of Total Waste Tonnage	Annual tonnage of Construction and Demolition (C&D) waste collected for recycling and diverted from landfills.		Unknown. Not tracked.

Health and Equity

Metric ID	Metric	Data Format	Description	Annual Data	GTLC Member Notes
HEALL-1	DEI or HIAP education	Count	Number of community-wide DEI events (in person or virtual) hosted.	21	10 recorded public events hosted, 11 DEI Committee Meetings held in 2024
HEALL-2	DEI or HIAP outreach	Count	Annual increase in followers on a dedicated health and equity or DEI on social media account.		This is not tracked
HEALL-3	DEI or HIAP resources	\$	Total budget allocated to DEI initiatives in the community or county.	\$55,000	\$55,000 - planning and conduct recruitment for new DEI Specialist position;
HEALL-4	Civic engagement - Voter turnout for local elections by percent of voting aged population	%	Voter turnout for local elections by percent of voting aged population	59.2	One election - Local government office only
HEALL-5	Volunteerism in local government (events, committees, work groups, etc.)	Count	Number of community volunteers	612	Across all known events, number may include repeated volunteers at more than one event.
HEALL-6	Housing and transportation burden	%	Percentage of income spent on housing and transportation	46%	Housing - 27%; Transportation 19%

Energy & Emissions

Supporting Action ID	Supporting Action	Supported Metrics	Year Implemented (if known)	Narrative
ERSA-1	Complete a municipal GHG inventory for Scope 1 emissions (emissions from sources controlled or owned by the organization) and Scope 2 emissions (indirect emissions associated with the purchase of electricity, steam, heat, or cooling) and establish baseline emissions	ER-6	2023	Completed within Municipal Comprehensive Energy Plan
ERSA-2	Complete a municipal GHG inventory for Scope 3 emissions (emissions from assets not owned or controlled by the organization but that the organization indirectly affects in its value chain) and establish baseline emissions.	ER-6	2023	Completed within Municipal Comprehensive Energy Plan
ERSA-3	Complete the ICLEI US Community Protocol and establish baseline emissions	ER-6	2024	Kick off meeting on 3 cohort series with WLGCC and ICLEI began December 2024; includes GHG Inventories, Mitigation Strategies for Learning, and Advance Communities. Expected to be completed by December 2025.
ERSA-4	Establish municipal and community-wide emissions reduction, energy reduction, onsite renewable energy and/or energy efficiency goals in a supporting plan or resolution.	ER-1, ER-2 (all), ER-3 (all), ER-4, ER-6	2023	Completed within Municipal Comprehensive Energy Plan 2023 and Sustainability Plan, 2021 Energy Section
ERSA-5	Use Focus on Energy, utility Commitment to Community programs, and/or other resources to conduct energy assessments on municipal facilities that are identified as high energy users	ER-3A, ER-3B, ER-4, ER-6	2021, 2023	Energy Data usage is included within the Municipal Comprehensive Energy Plan, 2023 and Sustainability Plan, 2021.
ERSA-6	Use ENERGY STAR Portfolio Manager, or other software tools, to track energy use in all municipal facilities	ER-3 (all), ER-4		In planning; Identified as a Mid-Term Action within the Energy Actions from the Sustainability Plan (page 15)
ERSA-7	Require new municipal buildings, and significant remodels of existing buildings, to be designed to achieve a sustainable building certification, such as an ENERGY STAR score of 75, or certification through LEED, WELL, Passive House, Net Zero Energy, Green Globes, or Living Building. The local government may specify the sustainability standard(s) that it will recognize and include an Energy Use Intensity (EUI) target in the construction contract	ER-1, ER-3 (all), ER-4 ER-6	2023	Community Center Campus Plan completed in November 2023 identifying pursuit of Net Zero building designs with rooftop solar and geothermal.
ERSA-8	Increase visibility of renewable energy in the community by installing PV systems at government facilities and enable public access to electricity production data monitoring.	ER-1, ER-2A, ER-3A, ER-4, ER-6	2021 (initial);	Ongoing efforts to maintain data monitoring sites for tracking of energy collection systems.
ERSA-9	Offer renewable energy purchasing or participation programs or promote existing programs from outside sources to residents and businesses.	ER-2A	2021, 2022, 2023, 2024	Ongoing; 31 solar permits recorded in 2021, 21 solar permits recorded in 2022; 31 solar permits recorded in 2023; Obtained SolSmart Gold Designation in 2024
ERSA-10	Take steps to simplify the solar permitting process and remove other barriers to residential solar implementation.	ER-2A	2024	Acheived SolSmart Gold designation

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ERSA-11	Leverage Focus on Energy and University of Wisconsin System resources to offer public educational programs, or otherwise provide resources for interested parties, on energy efficiency upgrades for homes and businesses	ER-2A	2023	McFarland Sustainability Planning Page includes a collection of resources from various energy savings programs updated periodically
ERSA-12	Implement a plan to upgrade all municipally owned or controlled streetlights and stop lights to LED lamps.	ER-3A, ER-6		Ongoing; Replacement to LED lighting will occur at failure
ERSA-13	Incorporate energy efficiency upgrades for lighting, HVAC and building shells for all municipal buildings into the community's capital improvement plan.	ER-3, ER-6	2023	Comprehensive Energy Plan in 2023 includes recommendations and actions for retrofit and building improvements.
ERSA-14	Make watt meters available to the public	ER-2A		
ERSA-15	Adopt an energy use disclosure ordinance for residential and/or commercial buildings (Requires the seller of a property to inform prospective buyers of the building's energy use for one, or more previous years).	ER-2		
ERSA-16	Pass a resolution to commit to a community renewable energy usage goal, such as 100% renewable energy by 2050.	ER-1, ER-6	2021	Completed; Included Energy Section of the Sustainability Plan (pg. 14)
ERSA-17	Purchase renewable electricity for municipal buildings	ER-1, ER-6	2021;	In Planning;
ERSA-19	Capture biogas from wastewater treatment facility, landfill, or community compost facility and use biogas to power operations.	ER-1, ER-6		
ERSA-21	Include energy efficiency, renewable energy, and/or sustainable building certification requirements or incentives in TIF policies and other programs assisting commercial development projects.	ER-2, ER-5B		
ERSA-22	Improve all aspects of the energy reduction program by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	ER-ALL	2023	In Progress; OEI EIGP funding was awarded for VOM application for a Level 3, Microgrid and Battery Storage at Public Safety Center. Focus on energy and other federally funded energy rebate programs are

Transportation Systems

Supporting Action ID	Supporting Action	Supported Metrics	Year Implemented (if known)	Narrative
TSSA-1	Require bike parking for all new non-residential and multifamily uses.	TS-1, TS-4, TS-6, TS-8		Included in 2025 Zoning Code Update RFP
TSSA-2	Set standard for placement and number (as function of intensity of use) of bike parking spaces.	TS-1, TS-4, TS-6, TS-8		Included in 2025 Zoning Code Update RFP
TSSA-3	Create a public-facing resource showing all bike routes and pedestrian paths.	TS-1, TS-4, TS-6, TS-7	2020, 2023, 2024	Ongoing updates to Village interactive Zoning Map
TSSA-4	Identify, sign, maintain, and clear bike routes in the community year-round	TS-1, TS-4, TS-5, TS-6, TS-7, TS-8		Ongoing updates to Village interactive Zoning Map
TSSA-5	Receive certification by the League of American Bicyclists as a Bicycle Friendly Community. Work with businesses to promote bike commuting and active transportation.	TS-1, TS-4, TS-6, TS-7		In Planning; Identified as a Long-Term Action item within the Transportation Section of the Village's Sustainability Plan adopted in 2021 (page 17). To be included in 2025-2029 Comprehensive Outdoor Recreation Plan update
TSSA-6	Promote bike safety and other active living education and awareness sessions, through in-school education programming, bike rodeos, and other public-facing efforts; or work with a community organization to do the same	TS-1, TS-4, TS-5, TS-6, TS-7, TS-8		Ongoing; Police Department holds annual bike safety educational events
TSSA-7	Implement a bike-share program for residents and visitors	TS-1, TS-4, TS-6, TS-7, TS-8		Ongoing; Expansion of this initiative is included in 2025-2029 Comprehensive Outdoor Recreation Plan update.
TSSA-8	Require large employers (50+ employees) seeking rezoning to create a transportation demand management plan	TS-8		
TSSA-9	Increase safe pedestrian and bike routes to parks and public greenspace and other key destinations (grocery stores, schools, other public facilities, etc.)	TS-1, TS-4, TS-5, TS-6, TS-7, TS-8		Included within McFarland East Side Plan, 2023 (Ch. 2, 2. Mobility Goal and Policies - Goal 2, Blend multi-modal transportation options into neighborhood design; and Chapter 4, pg. 72-73); To be included in 2025-2029 Comprehensive Outdoor Recreation Plan update
TSSA-10	Eliminate or reduce parking minimums from non-residential districts when applicable	TS-8		Included in 2025 Zoning Code Update RFP
TSSA-11	Charge impact fees to developers for new roads and utilities	TS-8		Ongoing; Developers are required to pay for new road and utilities to serve their projects with any upsizing costs to serve future growth paid by the Village or future benefiting property owners.
TSSA-12	Create and implement a plan to incorporate EVs, hybrids, and alternative fuel vehicles to municipal fleet vehicle replacement plan.	TS-2, TS-3, TS-8	2023	Included within McFarland Comprehensive Energy Plan, 2023 - Fleet Vehicles and Electrification, pg 50-57
TSSA-13	Install public EV charging stations	TS-2, TS-3, TS-8	2024	In Planning; Staff began research on EV charging stations at Public Safety Building in late 2024
TSSA-14	Create a policy and train staff that prohibits idling of municipal fleet vehicles for more than 5 minutes	TS-3, TS-8		Identified as a Mid-Term Action item within the Transportation Section of the Village's Sustainability Plan adopted in 2021.

TSSA-15	Ban idling of unoccupied vehicles community-wide	TS-8		Identified as a Mid-Term Action item within the Transportation Section of the Village's Sustainability Plan adopted in 2021.
TSSA-16	Prepare a plan that identifies disconnections in bike and pedestrian networks, prioritizing fixes and identifying potential funding sources for the most important projects. Consider solving the last mile challenge where present.	TS-1, TS-4, TS-5, TS-6, TS-7, TS-8	2023	Included within 2022-2023 Capital Improvement Plan F. Transportation objectives 1.
TSSA-17	Identify four-lane roadways with fewer than 20,000 vehicles per day (AADT) and evaluate them for "road diets" with bike lanes or on-street parking	TS-1, TS-4, TS-5, TS-6, TS-7, TS-8		
TSSA-18	Calculate Walk Scores and Bike Scores for the community on the whole and develop a plan to improve those scores	TS-3, TS-8		
TSSA-19	Establish an expanded public transit that serves commuters from all neighborhoods and major parks and recreation facilities and has racks on vehicles for carrying bicycles.	TS-7, TS-8		
TSSA-20	Adopt and implement a pedestrian and bicycle safety and improvements plan	TS-7, TS-8		
TSSA-21	Create a standing committee to promote pedestrian and bicycle improvements	TS-1, TS-4, TS-6, TS-7, TS-8		
TSSA-22	Implement a complete streets plan	TS-7, TS-8		
TSSA-23	Evaluate any proposal to add lanes to a two-lane roadway for a center turn lane because it is the preferred option over an expansion to four lanes.	TS-8		Future roadway expansion has been discussed in the East Side Neighborhood Plan Update. The plan update is scheduled to be completed in 2023, addressing growth east from the Village center. Any future reconstruction of Siggelkow Road to four lanes east of Catalina Parkway should include this evaluation
TSSA-24	Improve all aspects of the transportation systems program by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	TS-ALL		
TSSA-25	Incorporate access to bicycle and pedestrian infrastructure into decisions for siting of municipal county and school facilities, as well as into zoning decisions	TS-1, TS-4		Ongoing efforts by Community & Economic Development/Engineering/Public Works during review of public projects
TSSA-26	Pass ordinances that support the reduction of GHG emissions from transportation, including more funding for walking, biking, transit, reduced idling, required impact fees, transportation demand management, etc.	TS-ALL		

Land Use

Supporting Action ID	Supporting Action	Supported Metrics	Year Implemented (if known)	Narrative
LUSA-1	Identify priority areas, like business centers or corridors, underutilized former industrial areas, or other previously developed but poor-quality areas along rivers, lakes, or streams, for infill development and then facilitate development of those areas that maintains or increases the amount of valuable green spaces (i.e. parks, recreational spaces, natural/preserved habitat, conservation lands). When possible, restore shoreline and flood prone areas to native habitat or with low impact infrastructure like pathways or boardwalks.	LU-1, LU-3, LU-4, LU-5, LU-6, LU-9	2023	The Village of McFarland has begun updates to development district plans 1 & 2, Terminal Triangle District Plan and Downtown District Plan in September 2023.
LUSA-2	Facilitate or incentivize brownfield site redevelopment or remediation in the community or county. When possible, restore areas in flood prone locations to native habitat.	LU-1, LU-3, LU-4, LU-6, LU-9	2024	Ongoing; The Village had three TIF Districts in 2023 that provide opportunities to incentivize brownfield site redevelopment. TIF District 6 was approved in 2024
LUSA-3	Implement zoning codes allowing beekeeping on single family, institutional, or agricultural properties.	N/A		This action has been identified in the Sustainability Plan, page 23, Land Use & Development Actions for Long-Term Actions. To be considered in 2025 Zoning Code Update.
LUSA-4	Increase requirements for minimum tree plantings in redevelopments and new developments and require planting of diverse native tree species.	LU-3, LU-5, LU-7		Village ordinances already require the use of native plantings. Further adjustments to landscaping requirements to be considered when the Village updates its Zoning Code in 2025
LUSA-5	Set standards for redevelopment projects to reduce overall intensity of development by requiring green infrastructure and minimum green space provisions per square foot of impervious footprint.	LU-3, LU-6		Village ordinances already require minimum green space provisions. Further adjustments to these requirements to be considered when the Village updates its Zoning Code in 2025
LUSA-6	Create land bank to acquire and assemble priority infill sites or to preserve land for flood mitigation, reduction of density, parks/dedicated public green space, or trails/pathways to increase accessibility.	LU-3, LU-4, LU-5		Ongoing; The Village utilizes its TIF Districts and park impact fees to acquire and assemble priority infill sites or to increase park spaces.
LUSA-7	Revise zoning requirements for office and retail districts to permit floor-area ratio >1 on average. See the American Planning Association's Floor Area Ratio resource	LU-8		In Planning; To be considered in 2025 Zoning Code Update
LUSA-8	Promote, through local policy initiatives, life cycle or adaptable housing options such as "aging in place", accessory dwelling units (ADUs), Universal or Inclusive Design, Dementia Friendly Communities, Age-Friendly Communities, workshops, presentations, etc. to minimize sprawl and improve infill development and density.	LU-2, LU-10		In Planning; Included in Sustainability Plan Pg 23, LU & Development Actions Mid-Term Actions; Preliminary research presented to Plan Commission October 18, 2022. To be considered in 2025 Zoning Code Update.
LUSA-9	Adopt a tree preservation ordinance.	LU-7		
LUSA-10	Set a tree canopy goal, perform a tree canopy assessment, and develop a forestry management plan to achieve it.	LU-7		The Parks Department has completed a tree canopy assessment in June 2022. A tree management plan for tree removal, maintenance, and planting is included.
LUSA-11	Require a planting scoresheet to regulate the number of trees, shrubs, and bushes that will be planted in redevelopments or new developments	LU-3, LU-7		
LUSA-12	Certification as Tree City USA	LU-7	2009	Awarded in 2009
LUSA-13	Certification as Bird City Wisconsin Community	N/A	2011	Awarded in 2011 and identified as High Flyer Community. https://birdcity.org/wisconsin/mcfarland?tab=0
LUSA-14	Revise zoning codes for commercial, industrial, multifamily, or institutional properties to protect existing native habitats like sensitive areas, wildlife habitats, and wetlands, or to require installation of green infrastructure.	LU-5, LU-6		Village ordinances already require protection of wetlands. The Village is planning to update the Zoning Code in 2025 which it will provide an opportunity to further explore this topic.

LUSA-15	Improve all aspects of the land use program by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	LU-ALL		The Village plans to continue to seek grants/cost sharing agreements for future projects where applicable.
LUSA-16	Implement zoning code strategies to increase overall density located in areas that are highly accessible to population needs like public transit, healthy food options, daycare/childcare - schools, green space/recreational areas, and healthcare	LU-3, LU-4, LU-6		Included as an item of consideration when the Village will be updating its Zoning Code in 2025.
LUSA-17	At the beginning of project planning, identify potential opportunities and/or funding to better connect state, regional, or local greenspaces	LU-3, LU-4, LU-5, LU-6		Most Village development plans include an implementation section that identifies potential sources of project funding. Annual review of Village plans are included in future Capital Improvement Plan and Strategic Plan updates to identify potential sources of grant funding for each project.
LUSA-18	Organize a volunteer workday on public or private lands to help promote sustainable land use (pulling invasives, planting trees, improving trails, treating plants/trees, etc.).	LU-2, LU-3, LU-4, LU-5, LU-6, LU-7, LU-10, LU-11		The Village has an annual volunteer clean-up day around the time of Earth Day. The Parks Department also hosts other smaller volunteer clean-up days.
LUSA-19	Inform residents and businesses (including properties used for agriculture) that are located along waterways or within flood zones about ways to mitigate flood damage to their properties and businesses. (FEMA funding, flood mitigation techniques, process for filing a Level of Map Revision from FEMA, etc.)	LU-2, LU-9, LU-11		
LUSA-20	Create agricultural incentives and educational materials with a land and water conservation department and inform farmers on sustainable agricultural land use practices (cover crops, buffer crops, harvestable buffers, direct injection manure, composting, application practices, etc.)	LU-5, LU-10, LU-11		
LUSA-21	Implement a conservation program to educate and incentivize the private ownership of deeded lands dedicated for conservationist practices, to be held on a permanent basis without the ability to develop or utilize for any economic or utilitarian purposes other than for ecological survey, hunting, fishing, or trapping. Many times these are done through conservation easements.	LU-5, LU-7, LU-8, LU-9, LU-10		
LUSA-22	Promote sustainable land use practices for private and institutional properties through education and outreach.	LU-All		

Water Quality and Conservation

Supporting Action ID	Supporting Action	Supported Metrics	Year Implemented (if known)	Narrative
WQCSA-1	Reduce use of synthetic chemical pesticides, herbicides, and fertilizers in municipal, town, or county landscape management and try to promote use of more natural management processes.	WQC-1, WQC-2, WQC-3		Chapter 3 Vegetation Management Use Policy which guides the use of pesticides and fertilizers in Village owned property
WQCSA-2	Supervise chemical applicators during pesticide or other chemical application to storm water ponds to ensure best management practices are implemented.	WQC-1, WQC-3		
WQCSA-3	Create community policy and best management practices for minimizing chemical use during vegetation management.	WQC-1, WQC-2, WQC-3, WQC-9		Ongoing: Village Public Works writes articles to be included in the various newsletters that may address these items
WQCSA-4	Eliminate use of groundwater for irrigation in municipal landscape management.	WQC-1, WQC-2, WQC-3, WQC-6		
WQCSA-5	Establish 75-foot natural vegetation buffer around surface water.	WQC-1, WQC-2, WQC-3		This is required in areas subject to the Dane County Shoreland Zoning Ordinances but not in areas of the Village annexed before May 7, 1982. This areas require a 40' setback.
WQCSA-6	Apply block rates to residential and commercial water billing.	WQC-7		
WQCSA-7	Offer water and sewer billing credits for installation and use of stormwater management systems (ex. rain barrels, rain gardens, swales, pervious pavement).	WQC-1, WQC-2		Item to be considered in the 2025 Village Code Update.
WQCSA-8	Develop a water efficiency and conservation plan for city, town, or county buildings.	WQC-6, WQC-8		
WQCSA-9	Install faucet aerators and low-flow plumbing fixtures in all municipal facilities.	WQC-6		Ongoing, complete as needed.
WQCSA-10	During televising inspections, clean at least 10% of the entity's sanitary sewer collection system per year.	WQC-14		Clean 33.3% of the sanitary collection system per year
WQCSA-11	Televise or visually inspect more than 10% of the sanitary sewer collection system per year.	WQC-14		Televise 33.3% of the sanitary collection system per year
WQCSA-12	Establish a program to inspect and control grease in the sewer system.	WQC-15		Village maintains an ordinance related to grease (Sec. 47-109) and annual televising is used to inspect for grease trap maintenance. Public Works may contract for additional annual inspections based on need.
WQCSA-13	Create program and train staff to identify any unapproved illicit discharges from commercial and/or industrial users.	WQC-3		The Village utilizes our consultant engineer for this service
WQCSA-14	Establish legal authority to inspect private residences or businesses to prohibit sump pump connections to the sanitary sewer system.	WQC-14		Sec. 8-311. - Conducting Tests of the Village's Municipal Code of Ordinance establishes this.
WQCSA-15	Establish a pretreatment or industrial control program that implements legal authority to administer fees/charges, to issue permit limitations for high flow and/or high strength waste discharges to the sanitary sewer system.	WQC-1, WQC-3		Madison Metropolitan Sewerage District does this for those within Village limits
WQCSA-16	Provide financial assistance to residents to replace lead sewer laterals.	WQC-10, HECO-2		
WQCSA-17	Reduce rates of inflow and infiltration in sanitary systems by at least 10%.	WQC-14, WQC-15		Ongoing
WQCSA-18	Create an inventory of wetlands in the community and ensure no net loss of preserved wetlands.	WQC-1, WQC-2, LU-5		WDNR has completed a wetland inventory for the entire state. Individual development projects are required to provide certified wetland delineations
WQCSA-19	Adopt a transferable development rights program to provide an incentive for landowners to preserve sensitive natural lands and wildlife habitat on the fringe of waterways.	WQC-1, WQC-2, LU-9, LU-10, LU-5		
WQCSA-20	Establish a dedicated source of funding for open space acquisition and management (e.g., bond proceeds, sales tax).	WQC-1, WQC-2, LU-3, LU-5, LU-6, LU-10		Ongoing; Park Impact Fees are annually adjusted based on the Consumer Price Index-All Urban Consumers-Midwest Region prepared by the United States Department of Labor.
WQCSA-21	Provide financial support to or collaborate with land trusts to acquire critical natural areas on or near waterways.	WQC-1, WQC-2, LU-5, LU-6, LU-10		
WQCSA-22	Develop a water loss control plan with targets below the 15% required by the state and include a system-wide water audit implementation and a timetable.	WQC-6, WQC-8		
WQCSA-23	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales.	WQC-1, WQC-2		

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WQCSA-24	Join EPA's WaterSense Program for water utilities or the Groundwater Guardian Green Sites program and promote them to local business.	WQC-1, WQC-2, WQC-3, WQC-9, WQC-12		
WQCSA-25	Develop partnerships with businesses to repurpose high strength water waste.	WQC-3, WQC-5, WQC-9, NAR		
WQCSA-26	Develop a storm sewer catch basin cleaning program to reduce trash, debris, suspended solids, and heavily laden organic material from entering water bodies.	WQC-4, WQC-5		Ongoing
WQCSA-27	Develop leaf and yard waste collection program.	WQC-4		Ongoing
WQCSA-28	Develop a regular street sweeping program to reduce total suspended solids.	WQC-1, WQC-2, WQC-3, WQC-4, WQC-5		Ongoing
WQCSA-29	Require redevelopment of commercial and light industrial business areas to incorporate stormwater management plans that set infiltration and pollutant reduction standards.	WQC-1, WQC-2, WQC-3, WQC-4, WQC-5		Ongoing
WQCSA-30	Develop and implement annual construction permitting and inspection program.	WQC-1, WQC-2, WQC-3, WQC-5		Ongoing
WQCSA-31	Develop and implement asset management plans that set targets for the sustainable maintenance, operation and renewal of water and wastewater infrastructure.	WQC-6, WQC-8, WQC-11, WQC-14, WQC-15		Ongoing
WQCSA-32	Facilitate public-private partnerships to offer rain barrels to residents annually.	WQC-1, WQC-2, WQC-6, WQC-7, WQC-9		Ongoing
WQCSA-33	Implement Salt Wise workshops for salt applicators and require Public Works applicators to get certified	WQC-12, WQC-13		Ongoing
WQCSA-34	Implement an incentive program for residents and multifamily complexes to encourage on demand water softener and low flow toilet installations.	WQC-7, WQC-9		Ongoing
WQCSA-35	Develop financial incentive program to promote and increase the number of green roofs and other types of stormwater runoff and treatment control best management practices in new developments and redevelopments.	WQC-1, WQC-2, WQC-3, WQC-9		Ongoing
WQCSA-36	Implement a drug take-back program and host a secure drop off site to mitigate the amount of drugs placed in the landfills or that get flushed to sewage treatment plants and eventually end up polluting rivers, lakes, streams, oceans	WQC-14, WQC-15		Ongoing
WQCSA-37	Improve all aspects of the WQC program by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	WQC-ALL		Ongoing
WQCSA-38	Implement a stormwater and/or sanitary effluent testing or monitoring program to annually test at least 10% of the system.	WQC-1, WQC-2, WQC-3, WQC-12, WQC-13, WQC-14, WQC-15		Ongoing
WQCSA-39	Sponsor or hold education and outreach informational workshops, presentations, or other efforts designed to engage residents, business owners, or city/county staff on stormwater and water quality and conservation best management practices	WQC-ALL		Village maintains an ordinance requiring abandonment of private wells and connection to public water when it becomes available in front of the parcel
WQCSA-40	DNR requires the creation of a program to get private wells abandoned when served by a local water utility. Create a process and maintain it to track and get all private wells in the city abandoned.	N/A		

Solid Waste

Supporting Action ID	Supporting Action	Supported Metrics	Year Implemented (if known)	Narrative
SWSA-1	Conduct a waste audit for municipal facilities (including recycling, composting as able).	SW-4		Receive monthly estimated amount of waste generated. No formal waste audit has been completed
SWSA-2	Conduct a community-wide waste audit (including recycling, compost, as able), ideally breaking out data by different sectors (residential/commercial/institutional, renters/owners, etc.) to further elucidate performance and where to address future efforts.	SW-ALL		Receive monthly estimated amount of waste generated. No formal waste audit has been completed
SWSA-3	Implement an ordinance requiring or incentivizing the recycling and reuse of construction and demolition waste (at minimum, update information on requirements for C&D waste, including required asbestos notification to DNR).	SW-1, SW-2, SW-5		
SWSA-4	Ensure community access to a composting collection program. If access exists, engage in education and promotion to increase use of existing programs/facilities. If access is limited, implement a curbside composting service (or another locally relevant service that provides similar access) in the community.	SW-3	2023	The Village is partnering with Dane County Waste & Renewables and additional Dane County communities on a pilot composting program. Funding for this project was announced in early 2024, pending additional instructions.
SWSA-5	Ensure community access to collection programs for wood waste from construction & demolition and yard waste. If access exists, engage in education and promotion to increase use of existing programs/facilities. If access is limited, implement pickup/dropoff service or other collection program accessible to community members.	SW-1, SW-5		Ongoing informational notices are provided to residents where these items can be recycled
SWSA-6	Ensure community access to collection programs for electronic waste. If access exists, engage in education and promotion to increase use of existing programs/facilities. If access is limited, implement collection program accessible to community members.	SW-1, SW-2, SW-4		
SWSA-7	Ensure community access to collection programs for hazardous waste (paints, volatile compounds, oils, batteries, pharmaceuticals, sharps, etc.). If access exists, engage in education and promotion to increase use of existing programs/facilities. If access is limited, implement a collection program accessible to community members.	SW-1, SW-2, SW-4		Waste oil and antifreeze collection available for drop off at Public Works facility. All other items are recommended to be sent to Dane County clean sweep. Med drop off located at Public Safety Building. Police department recently hosted a drug take back event.
SWSA-8	Host annual events to allow recycling of items that are typically difficult to recycle (E-waste, paints or volatile compounds, oils, batteries, etc.)	SW-1, SW-2, SW-4		
SWSA-10	Implement waste-reduction practices, such as encouraging electronic document use to decrease printing, and installing water bottle filling stations to reduce plastic bottle use.	SW-1		Reducing printing and paperless methods has been implemented throughout the Village's Departments. Water bottle refilling stations are added to municipal buildings where applicable.
SWSA-11	Spot-check businesses and rental properties to ensure adequate recycling facilities. Recycling facilities are required by law, but enforcement is complaint-based. Actively checking would go above and beyond existing regulations/compliance.	SW-1, SW-2		Businesses and rental properties are not within the village scope of recycling services. These are contracted separately of the village. (2022)
SWSA-12	Work with your Municipal Recycling Facility (MRF) to expand the list of recyclables they accept and provide clear guidance to residents on what can be recycled locally, keeping said guidance updated on a regular basis as markets and facilities change.	SW-1, SW-2, SW-4		Ongoing; List of recycling products are available on the Village website.
SWSA-13	Implement programs to help reduce the use of single-use shopping bags and Styrofoam containers.	SW-1	2022, 2023, 2024	The Lion & Lioness Club implements a plastic bag collection program since January 14, 2022 at two locations in McFarland, the Municipal Center and Pick N Save. In 2024, a third location at local bank was established. Approximately 5,000 lbs was collected in 2024

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SWSA-14	Provide black polystyrene recycling pick-up or drop-off for residents.	SW-1, SW-2		
SWSA-15	Bill residents for municipal waste collection based on the amount of waste collected.	SW-1		All residents are charged a base refuse collection fee annually
SWSA-16	Consider a Master Recycling program (akin to Master Gardener and Master Naturalists programs), such as the one being piloted by the City of Madison and Sustain Dane.	SW-1, SW-2, SW-4, SW-5		
SWSA-17	Implement outreach strategies that provide education to residents and businesses on recycling and composting opportunities and requirements, building on the "7 Rs of recycling," working to decrease "wish-cycling," promoting life-cycle thinking through awareness of items made from recycled materials (e.g. park benches made from recycled plastic bottles), and increasing proper recycling behavior to minimize contamination and decrease costs associated with recycling.	SW-2, SW-4, SW-5		Ongoing; Information for this is made available through the Village website for residents. Also, additional information is sent within Outlook or The Lookout newsletters for reminders.
SWSA-18	Implement a sustainable purchasing policy encouraging municipal purchases to take into account factors such as made from recycled and recyclable/compostable materials, energy used to create the product, local sourcing, etc.	SW-1, SW-2, SW-3, SW-4		
SWSA-19	Implement outreach campaigns encouraging residents to donate unwanted items for reuse (for example, clothing and household items in good condition to thrift stores; cardboard boxes to moving companies, churches, or other organizations; building materials to companies like Habitat for Humanity).	SW-1		
SWSA-20	Utilize rechargeable batteries whenever possible for municipal purposes and appropriately recycle used lithium-ion batteries	SW-1, SW-2, SW-4		Cordless and battery operated tools are used whenever possible.
SWSA-21	Promote diversion of still-usable food from waste stream, through food banks, donation of deer meat from hunting season, partnerships between restaurants/grocers and food-donation programs, etc.	SW-1		
SWSA-22	Improve all aspects of the waste program by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	SW-ALL		The Village plans to continue to seek grants/cost sharing agreements for future projects where applicable.

Health and Equity

Supporting Action ID	Supporting Action	Supported Metrics	Year Implemented (if known)	Narrative
HESA-1	Implement zoning ordinances and programs to enable home-based or community gardens and food plots to improve accessibility to local food production and implement locations for resale of made goods and produce.	HECO-2, HECO-3, HECO-5, HEALL-6		Completed; First community garden at 5710 Anthony Street.
HESA-2	Enact a Health in All Policies resolution or ordinance.	HECO-2, HECO-3, HECO-5, HEALL-6		Identified as a Near-Term Action in the Village's Sustainability Plan, page 25.
HESA-3	Incorporate Health in All Policies (HIAP) and Diversity Equity Inclusion (DEI) objectives in Comprehensive Plan updates.	All		Village will update its Comprehensive Plan in 2026-27
HESA-4	Identify healthy food deserts in the community and use economic development tools to eliminate those deserts.	HECO-2, HECO-3, HECO-5, HEALL-6		
HESA-5	Adopt an ordinance that bans use of tobacco and e-cigarettes on municipal lands and that limits exposure to secondhand smoke in apartment buildings.	HECO-2, HECO-4		Identified as a Near-Term Action in the Village's Sustainability Plan, page 25.
HESA-6	Implement a plan for crime reduction through environmental design.	HECO-6		
HESA-7	Establish a health impact assessment policy and procedures to assess existing and proposed programs or projects, including when an assessment is required and its scope.	All		
HESA-8	Create a Food Systems Plan that addresses the production, distribution, value-added, marketing, end-market, and disposal of food, and charge a new or existing governmental body to oversee the plan's implementation.	SW-1, SW-3, HECO-2, HECO-3, HECO-5		
HESA-9	Create a Food Policy Council to advise governing officials and staff on ways to provide cheap, accessible, healthy food options to the community, especially sensitive populations.	HECO-2, HECO-3, HECO-5, HEALL-3, HEALL-5		The Village does not have a Food Policy Council, but it does support the efforts of the local food pantry and its initiatives. The Food Pantry is to be included in the planned Community Center with its designated space.
HESA-10	Establish and implement harm reduction strategies for establishments such as alcohol outlets, gun stores, and sexual oriented establishments (e.g. zoning limitations and ordinances).	HECO-2, HECO-6, HECO-10, HECO-11		To be considered when the Village updates its Zoning Code in 2025
HESA-11	Implement a wellness program for employees and engage employers to establish employee wellness programs.	HECO-2, HECO-3, HECO-5		Wellness program offered through WI Employee Trust Funds Program (Well Wisconsin program); Active discussion continue to help determine recent changes in Employee benefits.
HESA-12	Provide a farmers' market for at least 6 months out of the year and ensure participation in the EBT/Foodshare program to enable Foodshare participants to benefit.	HECO-2, HECO-3, HECO-5, HEALL-3		The existing farmer's market is located in the parking lot of the Pick 'n Save grocery store. In 2022, the program operated May 5th to October 28th, every Thursday, 2:00 PM - 6:00 PM. The indoor farmer's market is held every November 5th - December 22 every Saturday, 9:00 AM - 2:00 PM.
HESA-13	Provide, support, or encourage health and equity professional development opportunities for staff.	HEALL-3		This supporting action varies among each department, but professional development opportunities are encourage.
HESA-14	Complete a community vulnerability assessment.	HECO-2, LU-9, WQC-1	2022	The VOM was a participant in the Dane County Natural Hazard Mitigation Plan Update. The multi-jurisdictional plan was approved by FEMA Dec 20, 2022.
HESA-15	Improve all aspects of the Health In All Policies program by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	All		The Village plans to continue to seek grants/cost sharing agreements for future projects where applicable.
HESA-16	Create a Racial Equity Action Plan.	HECO-7, HEALL-1, HEALL-2, HEALL-3		In 2022 the Village completed a DEI Report.
HESA-17	Use a tool, such as the Transforming Organizational Culture Assessment Tool (TOCA), to help assess your local government's culture and readiness to engage in racial equity work.	HECO-7, HEALL-1, HEALL-2, HEALL-3		
HESA-18	Conduct a survey of citizens' perception of diversity and inclusion within the municipality.	HEALL-1, HEALL-2, HEALL-3		In 2022 the Village completed a DEI Report.
HESA-19	Create municipal board/committee(s) specifically focused on sustainability, resource conservation, environmental and equity concerns, etc.	All		The Sustainability & Natural Resources Committee was established in May 2022. Meetings are held every 2nd Monday of every month at 6:00 PM in the Municipal Center Community Room.

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HESA-20	Host regular educational events related to equity, inclusivity, and diversity.	HEALL-1, HEALL-2, HEALL-3, HEALL-5		In 2022 the Village completed a DEI Report. Projects in 2023 include land recognition and pride events
HESA-21	Create a process for community members to directly offer input in decision making (eg. participatory budgeting, deliberative engagement, etc.).	HEALL-2, HEALL-3, HEALL-4, HEALL-5		All scheduled Village-hosted meetings are open to the public to attend, during which there is a section dedicated to public appearances. Here, the floor is open to anyone wishing to speak directly to the committee/commission, either virtually or in-person, adhering to the 3-minute limit. Additionally, public comments may also be submitted to the Village Clerk to be include as part of the meeting packets.
HESA-22	Create a language access plan to ensure equal access to local government processes and information regardless of primary language.	HEALL-2, HEALL-3, HEALL-4, HEALL-5		
HESA-23	Conduct an analysis of your local boards/commissions/committees to better understand power and representation.	HEALL-2, HEALL-3, HEALL-4, HEALL-5	2022	Completed
HESA-24	Create a plan or process by which you can increase diversity and representation on local boards/commissions/committees, especially active recruitment of members from underrepresented, vulnerable and impacted communities.	HEALL-2, HEALL-3, HEALL-4, HEALL-5	2022	Ongoing
HESA-25	Create a local committee, task force, or team that is interdepartmental and can coordinate complex issues of health, safety, and sustainability across departments.	All		Ongoing. Public Engagement Committee was established to meet and discuss interdepartmental coordination.
HESA-26	Demonstrate communication and/or coordination between city departments and public health (whether city or county). Examples include inviting public health to the table during a Comprehensive Planning process, or Plans related to housing, transportation, etc. Conversely, Public Health can collaborate with city departments for things like the Community Health Improvement Process and Community Health Assessment process.	All		
HESA-27	Improve all aspects of the DEI and HIAP programs by increasing the amount of grant funding awarded to the city/county and track the amount of funding annually by making it part of staff responsibilities to do so. Please elaborate on this action in the narrative portion of the report.	All		The Village plans to continue to seek grants/cost sharing agreements for future projects where applicable.