

**Madison Metropolitan School District
Comprehensive Energy Planning Energy Innovation Grant Application**

Contents

Application Cover Sheet (Attachment A)

Application Budget Sheet (Attachment B)

Application Executive Summary

Application Narrative (Note: Reference Materials are embedded in the narrative)

Letters of Support List

Letters of Support



ATTACHMENT A - Application Cover Sheet

SECTION I - Provide information summarizing the project proposal.				
Project Title:		Comprehensive Energy Plan for the Madison Metropolitan School District		
PSC Grant Request (\$):		Applicant Cost Share (\$):		Project Total (\$):
\$100,000 ⁰⁰		\$61,392 ⁰⁰		\$161,392 ⁰⁰
Choose one Eligible Activity				
<input type="checkbox"/> Renewable Energy & Energy Storage	<input type="checkbox"/> Energy Efficiency & Demand Response	<input type="checkbox"/> Electric & RNG Vehicles & Infrastructure	<input checked="" type="checkbox"/> Comprehensive Energy Planning	
Acknowledgement of ARRA Applicability. Check all that apply. (see Section 1.3 of Application Instructions)				
<input checked="" type="checkbox"/> Buy American: Project: Alteration, maintenance or repair of a public building or public work.				
<input checked="" type="checkbox"/> Davis Bacon and Related Acts: Use of laborers or mechanics employed by contractors and subcontractors.				
<input checked="" type="checkbox"/> Historic Preservation: Project involves historical (over 50 years old), archeological or cultural resources.				
<input checked="" type="checkbox"/> National Environmental Policy Act (NEPA): Project activity is NOT covered by the list shown in Section 1.3.3.				
SECTION II - Provide information for your organization, signatory, and primary contact for the project.				
Applicant Type:	<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town	<input type="checkbox"/> County
<input type="checkbox"/> Tribal Nation	<input type="checkbox"/> Manufacturer		<input checked="" type="checkbox"/> K-12 School District	
<input type="checkbox"/> University of Wisconsin System	<input type="checkbox"/> Wisconsin Technical College System		<input type="checkbox"/> 501(c)(3) nonprofit	
<input type="checkbox"/> Municipal Utility (water, wastewater, electric, natural gas)		<input type="checkbox"/> Hospital (public or nonprofit)		
Name (on W-9):		Madison Metropolitan School District		
Address (on W-9):		545 West Dayton Street Madison WI 53703		
County or Counties Served by Project:		Dane		
DUNS Number or CAGE Code:		020466561		
NAICS Code:		6111		
Authorized Representative/Signatory (Person authorized to submit applications and sign contracts)			Primary Contact (if different from Authorized Representative)	
Name:	Carlton Jenkins, Ph.D.		Name:	Marcie Pfeifer-Soderbloom
Title:	Superintendent		Title:	Resource Development Manager
Phone:	608-663-1607		Phone:	608-293-1674
E-mail:	cdjenkins@madison.k12.wi.us		E-mail:	mpfeifersode@madison.k12.wi.us
Signature of the Authorized Representative				

Madison Metropolitan School District Comprehensive Energy Planning

Summary of Project Budget				
Line	Description	PSC Grant Request	Applicant Cost Share	Total Project Cost
1	Personnel		\$9,539	\$9,539
2	Fringe		\$1,853	\$1,853
3	Equipment			\$0
4	Supplies			\$0
5	Travel			\$0
6	Contractual	\$100,000	\$50,000	\$150,000
7	Other			\$0
8	Indirect			\$0
Totals		\$100,000	\$61,392	\$161,392
% of Total		62%	38%	

Madison Metropolitan School District

Comprehensive Energy Planning Energy Innovation Executive Summary

Project Description

By June 30, 2022 MMSD will develop a Comprehensive Energy Plan (CEP) as measured by formal acceptance of the CEP by the MMSD Board of Education. The CEP will include, at a minimum, the following: (a) brief history of previous efforts leading to the current status of efforts in MMSD; (b) evaluation of current energy use and sources for facilities and fleets; (c) determination of MMSD's potential for generating energy locally and opportunities available locally; (c) operationalization of formal goals based on the Board of Education's April 2019 resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040; (d) work plan; (e) progress benchmarks; and, (f) reporting schedule and mechanisms. These efforts will include a community-wide stakeholder process engaging students, community members, local investor-owned utilities, the business community, and nonprofit organizations through public meetings, listening sessions, a project website, and an internet survey to solicit ideas on what technologies, stakeholders, and strategies should be considered for the CEP. Drafts and final versions of the CEP will be available publicly. After reviewing this information, the consultant, with the help of MMSD staff, will select 10-20 recommended strategies to move MMSD toward accomplishing our sustainable energy goals.

Based on feedback from MMSD staff, the consultant will develop two or three timeline scenarios with different timing and cost implications for the Board of Education to consider. Each option will include an analysis to compare required capital investment, operating costs or savings, and energy or fuel savings and associated carbon emissions reductions. The Board of Education will then review the recommendations and timelines and approve a course of action articulated in the CEP to make progress toward achieving MMSD's sustainable energy goals.

Key Partners and Stakeholders

Stakeholders

The primary stakeholders of the project are the nearly 26,000 MMSD students and their families, 3,000+ staff members, and 254,000+ Madison residents who will experience a cleaner environment in more sustainable buildings as the CEP is implemented. MMSD will seek out and elevate the voices of all in our community, with special attention to the influence, leadership, and voices of our students of color, staff of color, and families of color.

Partners

In July 2019, key MMSD staff including the Executive Director of Building & Technical Services, Assistant Director of Facility Maintenance, Chief Financial Officer, and Resource Development

Manager convened a conversation with the City of Madison Sustainability Coordinator and the Building Design Project Manager and the Madison College Director and Principal Investigator at the Center for Renewable Energy Advanced Technological Education to explore developing a CEP. As part of this work, the team reviewed The Madison Sustainability Plan: Fostering Environmental, Economic and Social Resilience and Madison College's Energy Efficiency Initiatives. Conversations generated ideas and clarified the benefits of engaging multiple relevant stakeholders and defining goals, actions, timeframes, strategy types, funding sources, and lead partners to formalize the work and provide clarity of next steps. Since that time, staff from these partner agencies have provided ongoing consultation, support, and access to educational opportunities for MMSD staff.

MMSD has a strong working relationship with Madison Technical College which is the lead institution for the Center for Renewable Energy Advanced Technological Education (CREATE). The CREATE network includes over 900 educators and school administrators from all fifty states and three US territories. We have been in contact with CREATE, and they are eager to share the MMSD CEP model with others in their network. We will plan to share our experience and resources through the CREATE newsletter, blog, and webinar platforms to ensure that the advances that we make in this project are shared with a wider national audience.

The Midwest Renewable Energy Association (MREA) has provided support, guidance, and connection to donors through their Solar on Schools program supported by the Couilliard Solar Foundation. MREA staff and MMSD work together to share information about solar on schools through, for example, MMSD staff presenting on a webinar on solar on schools in summer 2020 and MREA publishing an article featuring MMSD as a case study in Wisconsin School News in fall 2020.

All of these partners have offered their continued consultation and support throughout the development and implementation of the MMSD CEP.

Project Objectives and Metrics

Goal

MMSD will meet 50% of all operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040.

Objective and Desired Result

By June 30, 2022 MMSD will develop a CEP as measured by formal acceptance of the CEP by the Board of Education.

Progress Benchmarks

Benchmark	Success Measurement Metrics
Spring 2021	Awards announced, contract negotiations and applicable next steps related to National Environmental Policy Act (NEPA) review, etc.
May 2021	RFP process and selection of consultant
June 2021 - March 2022	Consultant, in collaboration with MMSD and key partners, develops initial draft of CEP
April 2022	MMSD Senior Leaders and Board of Education review CEP and provide feedback
April - May 2022	Consultant, in collaboration with MMSD and key partners, refines and finalizes CEP
June 2022	MMSD Board of Education formally accepts CEP
July 2022 - future	MMSD implements CEP
2030	MMSD meets 50% of all operations energy needs with renewable energy.
2035	MMSD meets 75% of all operations energy needs with renewable energy.
2040	MMSD meets 100% of all operations energy needs with renewable energy.

Reference Materials List

1. [Pathways to 100% Renewable Energy](#). Case Study, 06/05/2019. Accessed online 12/28/20.
2. [MMSD Sustainability Considerations](#). Winter 2019. Accessed online 12/10/20.
3. [EPA Greenhouse Gas \(GHG\) Equivalencies Calculator](#). Accessed online 1/12/21.
4. [MGE Partners with City of Madison and School District on Solar Project](#). Accessed online 1/15/21.
5. [Initiative for Energy Justice](#). Accessed online 1/13/21.
6. [The Madison Sustainability Plan: Fostering Environmental, Economic and Social Resilience](#). 2011. Accessed online 12/29/20.
<https://www.cityofmadison.com/Sustainability/documents/SustainPlan2011.pdf>
7. [Energy Efficiency Initiatives](#). Madison College. Summer 2019. Accessed 12/26/20.

Madison Metropolitan School District
Comprehensive Energy Planning Energy Innovation Grant Narrative

3.4.1. Eligibility and Ability to Achieve the Objectives

Introduction

The Madison Metropolitan School District (MMSD) endeavors to develop a Comprehensive Energy Plan to facilitate progress toward the Board of Education’s April 2019 resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. The total project budget is \$161,392. The grant request is for \$100,000, or 62% of the project cost. MMSD will cover 38% of the project cost plus indirect support services not charged to the project budget.

Applicant Eligibility MMSD is the second largest 4K-12 public school district in Wisconsin with a 2020-21 student population of 25,990. Among MMSD’s students, 41% are White, 23% are Latinx, 18% are African American, 9% are multiracial, and 8% are Asian. Forty-seven percent (47%) of students qualify for free or reduced-price meals, an indicator of economic disadvantage. English Language Learners, especially native Spanish speakers, comprise 27% of total enrollment. MMSD operates 50 schools across a 72 square mile area and has an annual operating budget of \$446M. MMSD maintains additional sites including the Administration Building, the Maintenance/Food Service Building, the Mansfield and Lussier Stadiums, and the Hoyt School which currently houses Madison School & Community Recreation.

ARRA Applicability MMSD acknowledges the American Recovery and Reinvestment Act’s (ARRA) applicability to the project. MMSD’s Building Services Department and Budget, Planning & Accounting Department have worked within ARRA guidelines and requirements when applicable since passage of the federal funding package in 2009. MMSD has successfully followed all ARRA requirements including and has Board of Education policies in place that align with ARRA requirements (e.g., 5000 Construction and Repair of Buildings, 6242 Bid Practices for Supplies and Equipment, 6601 Utilization of Historically Underutilized Businesses)

Organizational and Staff Experience MMSD’s objective is to develop a Comprehensive Energy Plan (CEP) that includes, at a minimum, the following¹: (a) brief history of previous efforts leading to the current status of efforts in MMSD; (b) evaluation of current energy use and sources for facilities and fleets; (c) determination of MMSD’s potential for generating energy

¹ Pathways to 100% Renewable Madison. Case Study, 06/05/2019. Accessed online 12/28/20 at <https://guidehouse.com/experience/energy/2019/pathways-to-100-percent-renewable-madisc>

locally and opportunities available locally; (c) operationalization of formal goals based on the Board of Education's April 2019 resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040; (d) work plan; (e) progress benchmarks; and, (f) reporting schedule and mechanisms. These efforts will include a community-wide stakeholder process engaging students, community members, local investor-owned utilities, the business community, and nonprofit organizations through public meetings, listening sessions, a project website, and an internet survey to solicit ideas on what technologies, stakeholders, and strategies should be considered for the CEP. Drafts and final versions of the CEP will be available publicly. After reviewing this information, the consultant, with the help of MMSD staff, will select 10-20 recommended strategies to move MMSD toward accomplishing our sustainable energy goals.

Based on feedback from MMSD staff, the consultant will develop two or three timeline scenarios with different timing and cost implications for the Board of Education to consider. Each option will include an analysis to compare required capital investment, operating costs or savings, and energy or fuel savings and associated carbon emissions reductions. The Board of Education will then review the recommendations and timelines and approve a course of action articulated in the CEP to make progress toward achieving MMSD's sustainable energy goal by 2040.

MMSD is well versed in gathering community input as evidenced by the collection of feedback at over 50 community input sessions and 4,456 survey responses in the run up to MMSD's successful fall 2020 referenda. The consultant will have access to MMSD's stakeholder lists and will work with MMSD staff as appropriate to engage stakeholders. The fall 2020 referenda, which included a \$317M question regarding facilities, is among the key factors that uniquely position MMSD to benefit from a CEP. Additional detail is provided in response to items below.

Chad Wiese, Director of Building & Administrative Services, will have administrative responsibility for grant implementation, progress monitoring, and ultimately delivering a Board of Education approved CEP. Specifically, Mr. Wiese or designated staff will meet with the CEP development plan consultant not less than bi-weekly and convene and facilitate the planning team's monthly progress meeting to assess progress toward objectives and address challenges. In addition to Mr. Wiese, the planning team will consist of the Assistant Director of Facility Maintenance, the Manager of Facilities Engineering, and the Manager of Electrical Technology. Additional staff members (e.g., Chief Financial Officer or designee, Executive Director of Curriculum & Instruction or designee) will participate on the planning team on an as-needed basis based on the agenda.

MMSD recognizes that approval of the CEP is only the first step toward achieving our goals. After approval, the CEP will provide the comprehensive structure to be carried out by Building Services staff in deep collaboration with Budget, Planning & Accounting. The Department of Curriculum & Instruction will play a critical role in implementing educational opportunities made possible by changes resulting from the CEP.

MMSD will plan to sub-contract development of the CEP through our formal Request for Proposal (RFP) process used for upper threshold purchasing. Compliance with MMSD’s Affirmative Action/Equal Employment Opportunity plan is a mandatory part of this process. MMSD’s RFP will describe the project and related requirements and request information on the proposer’s qualifications, a response to the requirements, a cost proposal, and other required forms. The RFP will be published on MMSD’s website and on the Wisconsin Bureau of Procurement VendorNet System and shared with various agencies (Midwest Renewable Energy Association, MREA) to disperse to their networks.

The table below outlines project benchmarks and success measurement metrics.

Benchmark	Success Measurement Metrics
Spring 2021	Awards announced, contract negotiations and applicable next steps related to National Environmental Policy Act (NEPA) review, etc.
May 2021	RFP process and selection of consultant
June 2021 - March 2022	Consultant, in collaboration with MMSD and key partners, develops initial draft of CEP
April 2022	MMSD Senior Leaders and Board of Education review CEP and provide feedback
April - May 2022	Consultant, in collaboration with MMSD and key partners, refines and finalizes CEP
June 2022	MMSD Board of Education formally accepts CEP
July 2022 - future	MMSD implements CEP
2030	MMSD meets 50% of all operations energy needs with renewable energy.
2035	MMSD meets 75% of all operations energy needs with renewable energy.
2040	MMSD meets 100% of all operations energy needs with renewable energy.

3.4.2. Budget Justification and Cost Share (“Match”)

The line item in the budget is limited to one expense, the cost to contract the development of the CEP at \$150,000. This amount was arrived at through a process of comparison to similar projects for which MMSD has released RFPs, verbal consultation with an engineering consultant, and an exploration of industry standard and competitive rates for this type of work. The project scope may also be adjusted as needed (e.g., consultant develops two rather than three timeline scenarios for board consideration) to stay within this cost.

The following MMSD staff members will provide 40 hours each of in-kind time (paid for through non-federal MMSD funds): Director of Building & Administrative Services; Assistant Director of Facility Maintenance; Manager, Facilities Engineers; Manager, Electrical Technology. This time will be spread across bi-weekly team meetings and project-specific support. MMSD will provide \$11,392 in non-federal matching funds for this project in staff time. In addition, MMSD’s Director of Administrative Services will support the RFP process to procure the consultant and MMSD’s Grants Accountant Supervisor will support grant monitoring and reporting.

The total project budget is \$161,392. The grant request is for \$100,000, or 62% of the project cost. MMSD will cover 38% of the project cost plus indirect support services not charged to the project budget.

3.4.3. Savings and Payback

Savings and payback will be realized from the renovations occurring at MMSD schools between 2021 - 2024. The base scope of MMSD’s successful \$317M facilities referendum includes the following for five high schools (except where noted differently) in Madison serving over 7,400 students annually²: LED Retrofit (Lights + Occupancy); overhaul of HVAC systems; energy management/benchmarking; energy/water metering; existing window/door replacement; roofing; \$450K solar allowance for each of the four large high schools; erosion control; environmental remediation; indoor water use reduction; rainwater management-collection + storing; asbestos and lead abatement; material selection-recycled + regional; material salvage and reuse (demolition); construction waste reduction + recycling; prefabrication of building components (as applicable); existing building reuse; updates to existing gardens; exterior light pollution reduction, and more. These facilities changes will result in building systems that are far more efficient, and therefore cost effective, than the current outdated systems. Better

² [MMSD Sustainability Considerations](#). Winter 2019.

functioning systems will allow for more productive use of labor as staff will be able to move their focus away from band aiding systems beyond their useful life.

The grant-funded activity of the development of the CEP will dovetail with the referendum-funded work to help MMSD further identify and prioritize additional work. For example, the completed CEP will provide guidance on operating our buildings more efficiently and an evaluation of each renovation project moving forward, considering improvements such as daylight harvesting, LED light conversions, solar energy, ERVs, adding central lighting controls, mechanical/automated shades and any other items the CEP would suggest. MMSD will be exploring the use of energy monitoring tools (temporary or permanent) to provide live energy use readings and alarms or notifications of spikes or failures. We will continue to measure our success per site through the cycle of a year comparing the annual kilowatts per hour (Kwh), therms, and fuel oil usage. It will create a guiding structure in which MMSD will articulate, in detail, the expected savings associated with transitioning to more sustainable energy use. The CEP will be an invaluable tool that will guide MMSD's movement toward meeting our goal of 100% of MMSD's operations energy needs being addressed with renewable energy by 2040.

3.4.4. Energy Savings and Environmental Impact

As MMSD progresses toward our goal of meeting 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040, it is anticipated that our greenhouse gas emissions will be reduced by 10.3, 15.4, and 20.3 tons, respectively, based on MMSD's current annual district total of 26,000 kilowatt-hour (kWh) figures which were used to quantify emissions reductions with the Environmental Protection Agency's (EPA's) Greenhouse Gas equivalency calculator³.

In addition to existing energy planning efforts described in response to item 3.4.7 below, MMSD has been taking action to reduce emissions and use more clean energy. Three of our 50 buildings have full or partial geothermal heating systems. Two buildings have solar arrays covering the majority of the roof and five of our buildings have smaller solar arrays on parts of the roof used primarily as teaching tools. We are partnering with local utilities to fund sustainable energy source projects. For example, we are working with Madison Gas & Electric (MGE) and the City of Madison to build an 8-megawatt (MW) solar array in Madison. If approved, the electricity generated by this local source of clean energy will increase renewable energy use in City operations by nearly 20%. MMSD will take 3 MW of the output under Renewable Energy Rider (RER) agreements with MGE⁴.

³ [EPA Greenhouse Gas \(GHG\) Equivalencies Calculator](#). Accessed online 1/12/21.

⁴ [MGE Partners with City of Madison and School District on Solar Project](#). Accessed online 1/15/21.

3.4.5. Equity and Energy Justice

MMSD holds core values of Excellence, Belonging, Racial Equity and Social Justice, Voice, Focus, and Creativity. We believe that students, staff and families of all races, ethnicities, faiths, home languages, immigration statuses, disabilities, sexual orientations, and gender identities are valuable members of our community. We take responsibility for the ways that our current policies and practices serve to reproduce inequities, and we will take action to close the gaps in opportunity that lead to racialized outcomes for children and youth of color. We will seek out and elevate the voices of all in our community, with special attention to the influence and leadership of our students, staff and families of color.

Every project undertaken at MMSD is assessed for its impact on the aforementioned communities. The development of the CEP will be no different. MMSD's core values align with the energy justice goal of achieving equity in both the social and economic participation in the energy system⁵. MMSD is striving to develop and maintain relationships that create a culture where historically disenfranchised people, who in Madison are often those who are economically disadvantaged and/or who are people of color, have their voices not only heard, but elevated in conversations about practices and initiatives in MMSD. The development of the CEP will use a community engagement process that reaches and elevates these voices.

As with MMSD's Long Range Facilities Plan, each section of the CEP will be pressure tested against MMSD's Educational Equity Guidance Tool which focuses on the following:

- Considerations throughout the process: Who are the most impacted communities and how were they engaged? How do the impacted communities perceive the current state of things and the proposed state of things? How does the entire community feel? Who does the proposal /practice/policy/ benefit?
- What is the initial proposal and the desired outcomes? Why? What are its intended outcomes? How does it align to MMSD's vision, graduate vision, core values?
- Data considerations: What inequities currently exist (i.e., racial, socioeconomic, linguistic and under-resourced individuals). How are students, staff and families situated in the larger context of neighborhood, zip codes, and/or policies that impact this group? Have you filtered your data down to consider the most vulnerable or "overlooked" group in your analysis? What is the research base to support the proposal? What, if any, are the best practices to consider for further action?

⁵ [Initiative for Energy Justice](#). Accessed online 1/13/21.

- Consider who benefits from or will be burdened by the proposal/practice/policy. What are the strategies for advancing educational equity and mitigating against unintended consequences? Are people traumatized or re-traumatized by the proposal/practice/policy? Is your proposal incrementally improving the experience or radically shifting the experience for those you intend to impact? In your consideration of data, how have you looked at communities of color in a broad way and a targeted way to expose the most vulnerable? How are they currently included or excluded? How is the proposal/practice/policy accounting for the emotional and physical safety of communities affected? How is the current proposal/practice/policy shifting power to better integrate and prioritize communities of color?
- Implementation plan considerations: Is the proposal realistic, adequately funded and adequately staffed? What are the measures of success? What is the feedback loop? How are developments shared? When would the proposal/practice/policy be discontinued?
- Accountability considerations: How will you ensure accountability and monitor and communicate results? How and when will impacts and outcomes be monitored and documented? Is there long-term sustainability and need for community partnership, investment and buy-in?

Each section of the CEP will begin with a recounting of the equity considerations relevant to that section and a summary of the anticipated impact on the aforementioned communities. The equity considerations will impact decision making around elements of the CEP (e.g., clean energy strategies, timing of strategy implementation to schools with the greatest needs). MMSD's entire student population will be impacted by this work as the CEP recommendations are implemented in the coming years. As such, over 12,000 economically disadvantaged students and over 15,000 children of color will be spending 180 days per year in facilities that are continually increasing their use of clean energy.

Communities of color have been disproportionately affected by the COVID-19 pandemic. Referendum funds will be used to replace and maintain heating and cooling systems. East, Memorial, and La Follette High Schools' heating, ventilation, and air conditioning (HVAC) systems will be completely replaced at a cost of over \$20 million. West had nearly \$10 million of HVAC work completed less than a decade ago and will receive nearly \$5 million in additional improvements. MMSD's design team, Eppstein Uhen Architects ([EUA](#)), is a leader in K-12 construction. As part of their work, EUA is taking the COVID-19 pandemic into account when coordinating the finished project proposals. EUA has hired [MEP Associates](#), a multi-disciplinary engineering consulting firm specializing in a broad range of technical services and innovative solutions for sustainable and energy efficient systems, to complete the design work for these projects. MEP will be concentrating on energy efficiency, reliability, and air safety as they design

these systems which will include increased filtering capacity, outside air regulation, and, in some cases, using ultraviolet light to sanitize the air by inactivating airborne pathogens and microorganisms. We will apply lessons learned from the COVID-19 pandemic to building features such as additional hand washing stations outside of bathrooms, improved air filtration, better air exchange, and touch-free plumbing in bathrooms as well as instructional learnings around open classrooms, virtual learning access, and broader ways to serve all students.

Founded in 1856, MMSD is one of Wisconsin's oldest school districts, and it is also one of the most urban districts in the state. These factors create significant environmental justice and energy equity issues for MMSD related to other school districts. From an environmental perspective, MMSD students are affected to a much greater extent by poor urban air quality that results from fossil fuel combustion. Airborne pollutants from fossil fuels such as particulate matter, nitrogen oxides, ozone, volatile organic compounds, and mercury, are all greatly elevated in urban areas compared to surrounding suburbs and rural regions. By transitioning to clean renewable energy generation, MMSD is committed to taking concrete steps to address this environmental disparity.

As a longstanding urban district, MMSD also has several constraints that do not impact most rural schools. Many MMSD schools are legacy buildings that are of advanced age. Madison East High School, for example, was built in 1922. Older buildings such as these were not built with modern insulation, weatherization, HVAC, or energy controls systems. Although the district has made substantial progress on upgrading these facilities over the past several decades, much work remains to be done to transform these legacy facilities into 21st century high performance buildings. MMSD schools also reside largely on urban lots that are surrounded by nearby industrial, commercial, and/or residential developments. New acreage in the district is limited and expensive to acquire. As a result, the district does not have abundant opportunities for large scale development of ground mounted solar installations or expansive geothermal fields on school property. In contrast to rural districts that typically have newer buildings and an abundance of land, clean energy development at MMSD will depend to a much greater extent on retrofits and upgrades to existing school buildings, and will rely heavily on the development of rooftop solar photovoltaic (PV) systems.

3.4.6. Financial Leverage and Economic Impact

Energy Innovation Grant Program (EIGP) funding is needed to move forward with development of a CEP for MMSD because MMSD does not have the capacity to dedicate a staff member's time solely to developing a CEP. As demonstrated throughout this proposal, MMSD has taken many steps toward using more clean energy across many domains -- building design and

construction, fleet vehicle replacement and infrastructure development, solar arrays on buildings, consulting with other agencies regarding their clean energy practices, and partnering with MGE and the City on a new solar partnership. What is lacking is a comprehensive plan to guide MMSD's use of an intentional, thoughtful approach toward meeting our clean energy goals. A piecemeal approach is helping us make progress, but it lacks a planful trajectory toward meeting 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. An EIGP grant would leverage over \$26K of MMSD funds, position MMSD to apply for other relevant grants (e.g., Solar on Schools supported by the Couillard Solar Foundation, Left Coast Fund, etc.), and create a demand for jobs for solar installers like those graduating from Madison College's Renewable Energy Certificate program for students interested in the design, engineering, economic analysis, installation, maintenance and repair of various types of renewable energy systems. Without an EIGP grant, MMSD would not be able to develop a CEP.

The CEP will allow MMSD to prioritize energy infrastructure investments based on their environmental and economic benefits. As part of the CEP, we will be able to rank projects by their simple payback period (in years), and also by environmental metrics such as the cost of carbon reductions (measured in \$ per kg of CO₂ avoided), with an eye toward taking immediate or early action on the most cost effective measures. In this way, EIGP funds will be leveraged because the grant money spent on creating the CEP will be magnified as the prioritized projects are implemented to make best use of the grant funds and taxpayer dollars.

3.4.7. Existing Energy Planning Efforts

By resolution of the Board of Education, MMSD's goal is to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. While this resolution was passed in late 2019, MMSD has been committed to energy conservation for over 30 years as one avenue to mitigate climate change. Dating back to the early 1980's, MMSD leveraged \$570,000 in federal matching grants through the Institutional Conservation Program (ICP) matching funds grant for energy related work. At that time, MMSD implemented over \$1 million dollars of energy conservation related projects including boiler modifications and controls, pipe insulation, pool covers, ventilation reductions, lighting retrofits, and programmable time clocks.

In addition to the energy related projects, maintenance work has also taken advantage of opportunities to improve facility performance with replacement windows with improved thermal performance, adding insulation during roof replacements, insulating pipes, converting steam systems to water, and installing automated building controls.

Technology advances in the areas of energy conservation allowed MMSD to replace T-12 lamps with T-8 lamps, magnetic ballasts with electronic, install vending machine controls to limit operation to times buildings were occupied, install computer management software to shut down computers during non-occupied times, change incandescent lamps to compact fluorescent lamps, install LED exit lights, install variable frequency drives on large equipment motors, install occupancy controls on HVAC and lighting systems, and change pneumatic control systems to direct digital.

In 1998, the District entered into a performance contract with Honeywell, Inc. to provide energy savings in the form of guaranteed savings by implementing automation, mechanical replacements, variable air volume conversions, lighting, water conservation measures, and operational cost avoidance. The first phase primarily dealt with projects in the 4 high schools. Additional schools were covered in subsequent phases.

In 2001, MMSD began working with Focus on Energy, an energy efficiency and renewable resource program that empowers Wisconsin's people and businesses to make smart energy decisions with enduring economic benefits. Over the next five years, MMSD received over \$200,000 through grants and rebates associated with our ongoing energy efforts. Funding was provided for wind studies, steam trap replacement, boiler upgrades, and lighting retrofits.

Olson Elementary School, built in 2008, stands as an example of MMSD's commitment to overall energy performance. Olson achieved a Leadership in Energy and Environmental Design (LEED) award of Silver in New School Construction for its design, which incorporates geothermal HVAC systems, energy efficient lighting, daylighting strategies, and photovoltaic solar. MMSD recently purchased Badger Rock Neighborhood Center, a 4-acre site which houses Badger Rock Middle School, a public charter school with an interdisciplinary, project-based learning program focused on environmental sustainability, and will be the future site of a new elementary school. The environmentally focused site includes community gardens and the structure, built to LEED Platinum standards, runs on geothermal heating/cooling and solar array energy, is day lit by window walls and Solatubes (circular skylights that use prisms), and employs a water 60,000 gallon underground stormwater retention and yard hydrant system. The Badger Rock Middle School teaching staff follows a three-year curricular arc that focuses on the sustainability of water systems, land-based systems, and food systems and rests upon four core pillars that BRMS staff believe are key to resilience in individuals: sense of place, cultural relevance for all, sustainability and resilience (of people and place), and design and inquiry.

In 2010, the District hired McKinstry to begin a program aimed at behavior-focused energy awareness and operational efficiency designed to reduce costs, increase efficiency, and promote environmentally friendly operations. Currently, MMSD students, faculty, administrators, and Board members have expressed their support for an updated commitment and an active role by

MMSD in mitigating climate change by increasing energy efficiency and the use of sustainable energy resources (e.g., solar).

In July 2019, key MMSD staff including the Executive Director of Building & Technical Services, Assistant Director of Facility Maintenance, Chief Financial Officer, and Resource Development Manager convened a conversation with the City of Madison Sustainability Coordinator and the Building Design Project Manager and the Madison College Director and Principal Investigator at the Center for Renewable Energy Advanced Technological Education to explore developing a CEP. As part of this work, the team reviewed The Madison Sustainability Plan: Fostering Environmental, Economic and Social Resilience⁶ and Madison College's Energy Efficiency Initiatives⁷. Conversations generated ideas and clarified the benefits of engaging multiple relevant stakeholders and defining goals, actions, timeframes, strategy types, funding sources, and lead partners to formalize the work and provide clarity of next steps. Since that time, staff from these partner agencies have provided ongoing consultation, support, and access to educational opportunities for MMSD staff. All of these partners have offered their continued consultation and support throughout the development and implementation of the MMSD CEP (see included letters of support).

As MMSD collected input from the community in fall and winter of 2019 and early 2020 in preparation for the (now passed) fall 2020 referenda, community members frequently asked questions about how the facilities referendum could improve MMSD's efforts. MMSD's base scope for the referendum already includes the following for five high schools (except where noted differently) in Madison serving over 7,400 students annually⁸: LED Retrofit (Lights + Occupancy); overhaul of HVAC systems; energy management/benchmarking; energy/water metering; existing window/door replacement; roofing; \$150K solar allowance for the four large high schools; erosion control; environmental remediation; indoor water use reduction; rainwater management-collection + storing; asbestos and lead abatement; material selection-recycled + regional; material salvage and reuse (demolition); construction waste reduction + recycling; prefabrication of building components (as applicable); existing building reuse; updates to existing gardens; exterior light pollution reduction; bicycle parking; student fitness center, indoor environmental quality; healthy materials; natural lighting/daylighting; glare control; active design; flexible spaces; thermal comfort; access to drinking water; bathroom accommodations (all gender); and, universal design for facilities that are accessible and usable for all. From an instructional perspective, the base scope of the referendum includes basic visibility of features; using the building as a teaching tool; and, using environmental curricula (e.g., Center for Green Schools).

⁶ The Madison Sustainability Plan: Fostering Environmental, Economic and Social Resilience. 2011. Accessed online 12/29/20 at <https://www.cityofmadison.com/Sustainability/documents/SustainPlan2011.pdf>

⁷ [Energy Efficiency Initiatives](#). Madison College. Summer 2019.

⁸ [MMSD Sustainability Considerations](#). Winter 2019.

In response to community feedback seeking a greater focus on sustainability, MMSD held a community input session specifically about sustainability and presented an option to add \$2M to the facilities referendum for sustainability projects. This idea was favorably received by the community and the \$2M was added to the facilities referendum to include a focus on innovation and more efficient mechanical systems; a \$150K solar allowance for Capital High; an additional \$250K solar allowance per school for East, La Follette, Memorial and West High Schools; rainwater management - greywater reuse at two high schools; electrical vehicle charging stations; mindfulness spaces for students and staff; and funds for student-led initiatives. From an instructional perspective, the \$2M bump will provide funds for a prototype learning space (e.g., carbon capture, battery storage, wind, solar PV) at each of the four large high schools.

MMSD is awash in opportunities to advance our thinking, culture, and practices around sustainability and clean energy based on exploratory work to date, the successful referendum, and community interest. Now is the time to harness all of these opportunities and information into a formal plan to guide our actions over the next five years.

3.4.8. Energy Resiliency

MMSD currently works with utility provider MGE to reduce power consumption under circumstances during which MGE cannot keep up with their overall demand. Implementing recommendations from the CEP will help MMSD reduce energy use overall and support the community indirectly by flattening the peak of energy demands. As part of the CEP, we anticipate multiple recommendations regarding how MMSD can use sustainable energy to improve our energy resiliency such as using biogas to power emergency lighting and heating equipment.

MMSD buildings are used during emergency conditions and situations (e.g., as evacuation sites, cooling centers, and staging areas for law enforcement during large municipal events such as UW-Madison's Halloween festivities). The CEP will consider these factors when prioritizing sites, and designs for solar or solar+storage systems that could enhance sites' emergency functioning will be evaluated. For example, the addition of PV panels plus a back-up generator could greatly increase the amount of energy that can be produced beyond the capacity of the generator alone. The combination of a battery + generator can extend the amount of time that the generator can run on a single tank of fuel. This is especially important for resiliency planning because fuel supply chains can be interrupted in times of natural disaster.

3.4.9. Education and Awareness

Solving environmental problems will require behavior change. As such, we anticipate that the CEP will include a recommendation regarding a behavior modification program for the over 3,000 MMSD employees and over 25,000 students.

The recently passed referendum will provide funds to change the conditions in which MMSD staff and students live their daily school experiences as described in response to item 3.4.7. These exterior and interior physical conditions will prime both student and staff interest and their ability to make concomitant behavioral changes.

From an instructional perspective, the base scope of the referendum includes basic visibility of features; using the building as a teaching tool; and, using environmental curricula (e.g., Center for Green Schools). From an instructional perspective, the \$2M bump will provide funds for a prototype learning space (e.g., carbon capture, battery storage, wind, solar PV) at each of the four large high schools. Any behavior modification plan will incorporate these updated systems and new features.

An overall behavior modification plan could include behavioral mapping, developing interventions to promote best practices, social marketing, a pilot program, and defining metrics for evaluating performance. This could be of particular interest to some of our schools with an environmental focus (e.g., Lincoln Elementary School, Badger Rock Middle School, Spring Harbor Middle School) or to student groups (e.g., high school sustainability clubs, Distributive Education Clubs of America (DECA)). In a January 2021 focus group with MMSD high school students, they articulated ideas for behavior modification around waste and recycling, providing bike lockers, influencing the culture of the school with art and murals with an environmental sustainability focus. The students also shared ideas around implementation such as having student volunteers stand near waste receptacles at meal times to help students know what to recycle and where to put items, improved signage regarding recycling, and using college campuses as examples of organizations with good signage. Students are also interested in using data provided by MMSD to assemble and write an annual school energy report to be presented to the Board of Education and other stakeholders, as well as a “Sustainability Yearbook” to track annual progress toward meeting sustainability goals. Our students are ready to help lead the way on behavioral modification!

The Department of Building Services has committed to providing initial training and ongoing training as needed on all new energy saving systems and equipment for Building Services staff.

MMSD staff will be happy to share our experiences and process of development and implementation of the CEP with other interested entities, consult with other entities, and/or to present at related professional conferences or events. For example, MMSD staff participated in a webinar sponsored by MREA in summer 2020 during which MMSD shared information about our work around solar on schools. MMSD faculty, students, and administrators will make presentations at statewide venues to share our experience with a wider audience of stakeholders, these include but are not limited to the Midwest Renewable Energy Fair, The Wisconsin Association for Environmental Education Conference, The Midwest RENEW Energy Summit, and the Wisconsin Association of School Boards annual meeting.

MMSD has a strong working relationship with Madison Technical College which is the lead institution for the Center for Renewable Energy Advanced Technological Education (CREATE). The CREATE network includes over 900 educators and school administrators from all fifty states and three US territories. We have been in contact with CREATE, and they are eager to share the MMSD CEP model with others in their network. We will plan to share our experience and resources through the CREATE newsletter, blog, and webinar platforms to ensure that the advances that we make in this project are shared with a wider national audience.

3.4.10. Innovation

The first innovative component of this project is the engagement of stakeholders. As described above in response to items 3.4.1. And 3.4.5. MMSD is well versed in gathering community input as evidenced by the collection of feedback at over 50 community input sessions and 4,456 survey responses in the run up to MMSD's successful fall 2020 referenda. The consultant will have access to MMSD's stakeholder lists and will work with MMSD staff as appropriate to engage stakeholders. In addition, MMSD will seek out and elevate the voices of all in our community, with special attention to the influence and leadership of our students, staff and families of color. MMSD staff will work with the consultant writing the CEP to ensure access to input and feedback from students, staff and families of color. As we work toward 100% renewable energy in MMSD, we will also do our part to work toward achieving equity in both the social and economic participation in the energy system.

The second innovative component of this project is its sheer scale. MMSD is the second largest school district in Wisconsin, surpassed only by Milwaukee Public Schools. MMSD serves nearly as many students as the combined total of the 100 smallest school districts in the state. Compared to other smaller districts, MMSD has an outsized energy footprint due to both the large number of district school buildings, and the advanced age of many of these facilities. This presents a considerable challenge, but also an enormous opportunity to achieve significant

clean energy advancements by targeting MMSD. Because of MMSD's size, the creation of a comprehensive energy plan is a critical first step towards improving energy performance district wide in a strategic fashion. There are few other school districts the size of MMSD in the midwest region that have undertaken a district-wide systematic effort to promote energy efficiency and clean energy generation on the scale that we are proposing. The MMSD comprehensive plan will facilitate energy improvements across **fifty schools**, impacting all grade levels K-12, and serving nearly 26,000 students each year. Thus the modest funding request in this proposal will be greatly magnified as MMSD implements the CEP created through this project.

Finally, the most innovative component of this proposal is the bold energy, climate and sustainability targets that have been established by MMSD. MMSD has served as a model for other schools taking early steps to dedicate staff and resources to improving sustainability. Our students and alumni have gained national attention for their leadership on clean energy issues. And MMSD was one of the first school districts in the state of Wisconsin to adopt concrete targets for climate reduction strategies. MMSD's resolution to achieve 50% renewable energy by 2030 is an aggressive target that will require a strong concerted effort, and will serve as a model for other Wisconsin districts to follow. **Furthermore, our clean energy plan to achieve 100% renewable energy by 2040 will distinguish MMSD as a leader for school districts nationwide.** By demonstrating to others the potential to transform schools into high performing climate neutral facilities, the impact of this project will extend far beyond the boundaries of the MMSD to help advance the much broader national movement for clean and healthy schools.

**Madison Metropolitan School District
Comprehensive Energy Planning Energy Innovation Grant Letters of Support**

Madison College

Dane County

City of Madison

Midwest Renewable Energy Association



MADISON
AREA | TECHNICAL
COLLEGE
PRESIDENT'S OFFICE

Jack E. Daniels, III, Ph.D., President

January 14, 2021

Public Service Commission of Wisconsin, Office of Energy Innovation
Hills Farms State Office Building
North Tower, 6th Floor
4822 Madison Yards Way
Madison WI 53705

Dear Members of the Selection Committee,

I am pleased to lend the support of Madison College to the efforts of the Madison Metropolitan School District (MMSD) to obtain an Energy Innovation Grant from the Public Service Commission of Wisconsin, Office of Energy Innovation.

The Madison Metropolitan School District's Board of Education holds a resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. This resolution stands as evidence of MMSD's commitment to build on energy conservation efforts that started over 30 years ago as one avenue to mitigate climate change. MMSD is proposing to work with an expert consultant to develop a Comprehensive Energy Plan (CEP) covering the history of previous efforts, an evaluation of current energy use and sources for facilities and fleets, and more. These efforts will include a community-wide stakeholder process to engage students, community members, the business community, and nonprofit organizations through public meetings, listening sessions, and other means to solicit ideas on what technologies, stakeholders, and strategies should be considered for the CEP. The CEP will include recommended strategies, timelines, and benchmarks to facilitate MMSD moving toward greater reliance on renewable energy. The Board of Education will review the recommendations and timelines and approve a course of action articulated in the CEP to achieve MMSD's goals by 2040.

Madison College has had a Renewable Energy Program since 2005, and was one of the early institutions to join the American College and University President's Climate Commitment to eliminate net greenhouse gas emissions from campus operations. In 2017, the college completed a comprehensive solar photovoltaic roadmap that created a strategic plan for implementing solar technology on each of our campuses and buildings. The college is home to the largest rooftop solar photovoltaic array in Wisconsin, and is the lead institution for the National Science Foundation Center for Renewable Energy Advanced Technological Education (CREATE). Based on our experience at Madison College, we can attest to the value of MMSD's proposal to pursue renewable energy and environmental goals as part of a Comprehensive Energy Plan.

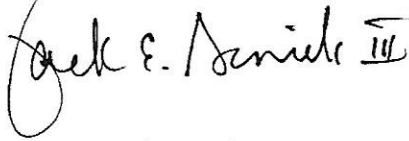
Madison College already has a strong working relationship with MMSD, and we are committed to supporting the proposed project. Renewable Energy Program Director, Dr. Ken Walz, has served as an advisor to the MMSD facilities team as they worked on a major referendum, passed by the district last year, to address deferred building maintenance and energy infrastructure needs. To support the proposed project, Madison College will share with MMSD all of the resources that we have developed, including a guide to create a Solar Roadmap, design

January 14, 2021

Page 2

recommendations for Solar on Schools projects, a template Request for Proposals for solar construction projects, solar RFP scoring criteria and rubrics, and model solar construction contracts. In addition, the CREATE Energy Center offers professional development and training for high school STEM faculty in renewable energy technology. Madison College commits to share all of these resources and services to support the proposed project, at no cost to MMSD.

Sincerely,

A handwritten signature in black ink that reads "Jack E. Daniels, III". The signature is written in a cursive style with a large initial "J" and a distinct "III" at the end.

Jack E. Daniels, III, PhD
President, Madison College



DANE COUNTY

Joe Parisi
County Executive

January 12, 2021

Public Service Commission of Wisconsin, Office of Energy Innovation
Hills Farms State Office Building
North Tower, 6th Floor
4822 Madison Yards Way
Madison WI 53705

Dear Members of the Selection Committee,

On behalf of Dane County, I am pleased to support Madison Metropolitan School District (MMSD) efforts to obtain an Energy Innovation Grant from the Public Service Commission of Wisconsin, Office of Energy Innovation.

As you may know, Dane County has committed to an ambitious path where we aim to achieve countywide carbon neutrality by 2050. That means, of course, that every community in Dane County and all elements within our communities need to do their part to transition to a clean energy economy. School districts are an influential part of every local community; their actions can influence families and businesses in a variety of positive ways. MMSD's efforts under this grant can help to inspire broader action and accelerate progress on our shared clean energy goals.

MMSD's Board of Education passed a resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. If funded, this proposal will enable MMSD to work with an expert consultant to develop a Comprehensive Energy Plan (CEP). The CEP will include recommended strategies, timelines, and benchmarks to facilitate MMSD's transition to a clean energy future. The Board of Education will review the recommendations and timelines and approve a course of action articulated in the CEP to achieve MMSD's goals by 2040.

Since establishing our Office of Energy & Climate Change in 2017 Dane County has worked closely with local governments and school districts to support their clean energy initiatives. If MMSD's proposal is funded and they have the opportunity to create their CEP, Dane County staff will support the MMSD efforts. We will share lessons learned from our own climate action plan process as well as the insights we have garnered during the county's efforts to increase energy efficiency and transition to clean energy sources in county operations.

MMSD has committed to a clean energy future and now, with OEI support, MMSD can create the plan that helps them achieve these important goals. We are delighted to support this effort and we look forward to collaborating with MMSD on this effort.

Sincerely,

Joe Parisi
Dane County Executive



Office of the Mayor

Satya Rhodes-Conway, Mayor

City-County Building, Room 403
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4611
Fax: (608) 267-8671
mayor@cityofmadison.com
www.cityofmadison.com

January 19, 2021

Public Service Commission of Wisconsin, Office of Energy Innovation
Hills Farms State Office Building
North Tower, 6th Floor
4822 Madison Yards Way
Madison, WI 53705

Dear Members of the Selection Committee,

I am pleased to lend the support of the City of Madison to the efforts of the Madison Metropolitan School District (MMSD) to obtain an Energy Innovation Grant from the Public Service Commission of Wisconsin, Office of Energy Innovation.

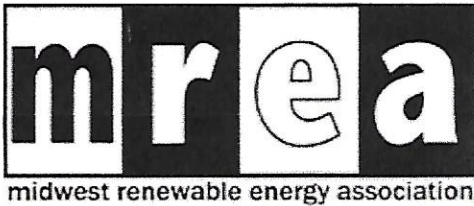
MMSD's Board of Education holds a resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. This resolution stands as evidence of MMSD's commitment to build on energy conservation efforts that started over 30 years ago as one avenue to mitigate climate change. MMSD is proposing to work with an expert consultant to develop a Comprehensive Energy Plan (CEP) covering the history of previous efforts, an evaluation of current energy use and sources for facilities and fleets, and more. These efforts will include a community-wide stakeholder process engaging students, community members, the business community, and nonprofit organizations through public meetings, listening sessions, and other means to solicit ideas on what technologies, stakeholders, and strategies should be considered for the CEP. The CEP will include recommended strategies, timelines, and benchmarks to facilitate MMSD moving toward greater reliance on renewable energy. The Board of Education will review the recommendations and timelines and approve a course of action articulated in the CEP to achieve MMSD's goals by 2040.

In March of 2017, the City of Madison Common Council passed a resolution setting a goal of 100% renewable energy and net-zero carbon emissions for both city operations as well as for the community. The Resolution also authorized the hiring of a consulting firm to produce a roadmap on how to achieve said goals. The ensuing '100% Renewable Madison Report' provided the City with the necessary technical assistance for comprehensive energy planning that will guide agencies and departments in implementation. We see comprehensive energy planning as a needed component for assisting institutions in accomplishing their goals. The City has also partnered with the Madison Metropolitan School District on best practices in facility energy management and renewable energy procurement through the Hermsdorf solar project. We foresee this partnership to continue as we both strive toward our 100% goals and lead the community in ambitious climate action.

Sincerely,

A handwritten signature in black ink, appearing to read "SR-Conway".

Satya Rhodes-Conway
Mayor



January 14, 2021

Public Service Commission of Wisconsin, Office of Energy Innovation
Hills Farms State Office Building
North Tower, 6th Floor
4822 Madison Yards Way
Madison WI 53705

Dear Members of the Selection Committee,

I am pleased to lend the support of the Midwest Renewable Energy Association (MREA) to the efforts of the Madison Metropolitan School District (MMSD) to obtain an Energy Innovation Grant from the Public Service Commission of Wisconsin, Office of Energy Innovation.

MMSD's Board of Education holds a resolution to meet 50% of all MMSD operations energy needs with renewable energy by 2030, 75% by 2035, and 100% by 2040. This resolution stands as evidence of MMSD's commitment to build on energy conservation efforts that started over 30 years ago as one avenue to mitigate climate change. MMSD is proposing to work with an expert consultant to develop a Comprehensive Energy Plan (CEP) covering the history of previous efforts, an evaluation of current energy use and sources for facilities and fleets, and more. The CEP will include recommended strategies, timelines, and benchmarks to facilitate MMSD moving toward greater reliance on renewable energy.

The MREA promotes renewable energy, energy efficiency, and sustainable living through education and demonstration. One of our programs, Solar on Schools, provides resources and assistance to Wisconsin schools pursuing and developing solar PV projects. It has become clear through Solar on Schools, that developing comprehensive roadmaps, energy plans, and projects are often vital components to move projects forward and gain support from key decision-makers. As such, we believe developing a CEP will aid MMSD in meeting 100% of their operations needs with renewable energy by 2040.

Schools can lead by example in clean energy. MMSD has the opportunity to demonstrate to other school districts, the next generation, and the wider Wisconsin community the importance of prioritizing decarbonization.

Sincerely,

Nick Hylla
Executive Director