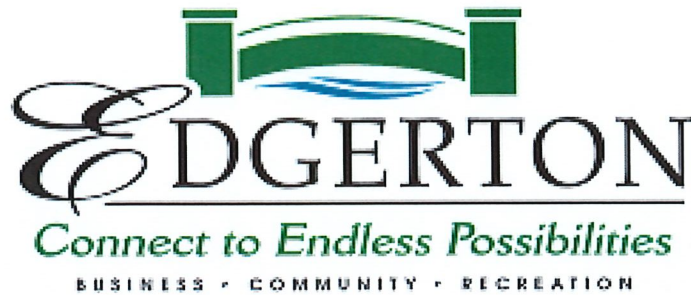


City of Edgerton WWTP Ground Mounted Photovoltaic System Bids

The City of Edgerton, Wisconsin is soliciting proposals/bids from Contractors interested in providing a new ground mounted Photovoltaic System at the Wastewater Treatment Plant (WWTP). Instructions to bidders and required bid forms are available at www.cityofedgerton.com, VendorNet, or at City Hall, 12 Albion Street, Edgerton WI.

All bids must be emailed to rflanigan@edgerton.wi.gov by **2:00 p.m. Thursday, November 28**. **The email subject line should state RFP – WWTP and your company name.** Questions should be directed to 608-884-3341 or rflanigan@edgerton.wi.gov

The City of Edgerton reserves the right to contract with the Bidder that has been determined to be in the best interest of the City after full consideration of cost, schedule and overall value. The City of Edgerton reserves the right to reject any or all Bids and the right to adjust the schedule as may be required.



City of Edgerton

Request For Bids

City of Edgerton Wastewater Treatment Plant New Ground Mounted Photovoltaic System

KEY BID/PROPOSAL DATES:

RFP Issued/Released:	Tuesday, November 12, 2024
Site Visit/ Walkthrough at WWTP:	Tuesday, November 19, 2024, 10:00am
Bid/Proposal Due Date:	Thursday, November 28, 2024
Estimated Notification of Award:	Tuesday, December 3, 2024
Project Substantial Completion	August 2025

Note: Only the awarded vendor will be contacted directly upon by City of Edgerton Council approval.

REQUEST FOR PROPOSAL

The City of Edgerton is seeking proposals from qualified vendors for the design, procurement, installation, and commissioning of a ground-mounted solar photovoltaic (PV) system at the wastewater treatment plant located at 500 Hwy St, Edgerton, WI 53534. The intent of this RFP is to select a vendor that can provide a turnkey solution to maximize the energy output while ensuring the system's long-term reliability.

- **Base Bid #1– Ground-Mounted Solar PV System; System Size not to exceed 20KW-ac**
 - **Cost Option #1** – Provide Pollinator-Friendly Seed Mix For under Array
 - **Cost Option #2** – Provide ¾" washed Stone under Array Area

- **Base Bid#2 – Ballasted Ground-Mounted Solar PV System; System Size not to exceed 20KW-ac**

Provide concrete ballasted racking using pre-cast concrete blocks or poured-in-place concrete as a base to secure solar panel arrays on the ground. The weight of the concrete ballast provides stability, eliminating potential conflicts with existing sub-surface mechanicals and racking.

General Terms, Conditions, and Instructions

METHOD OF SUBMITTING PROPOSALS

Proposals must be delivered via email only. Proposals must be sent via email to rflanigan@edgerton.wi.gov.

Proposals must be received no later than Thursday, November 28, 2024, at 2:00pm.

The email subject line should state: **"RFP – WWTP and your company name."** It is the responsibility of the bidder emailing their proposal response to ensure that proposal was received on time, preferably by requesting a "read receipt". Any proposals received by the specified due date and time that do not contain a submission signature of the proposed organization may not be accepted for consideration by the City of Edgerton.

Arrival of a proposal by any other means than email or emailed to an incorrect address may be cause for rejection and no consideration by the city.

CONTRACT DOCUMENT

BID/PROPOSAL must be signed by a person authorized to commit on behalf of the vendor. All conditions, terms, definitions, and specifications, etc. as set forth in this document along with the information submitted by the successful bidder, shall be considered the contract for the services set forth unless otherwise modified in writing by mutual agreement ("Contract"). If any provision of this contract shall be found to be contrary to any statute, the remaining parts of the contract shall remain in force. The submission of a proposal shall constitute acceptance of the terms of the Contract by the vendor.

ACCEPTANCE/REJECTION

Compliance with all specifications and conditions is required. The City of Edgerton reserves the right to accept or reject any or all proposals or parts of proposals for any reason, to waive any irregularities in any proposal or to make the award in such manner as may be deemed by the City to be right and proper and in the best interest of the City and said determination shall be final. Proposals may be held by the City for a period not to exceed ninety (90) days from the date of the opening of proposals for the purpose of reviewing the proposal and investigating the qualifications of vendors, prior to the awarding of the contract.

WITHDRAWAL OF BID/PROPOSALS

Prior to the designated closing time, any contractor or vendor may withdraw their proposal; however, no proposal shall be withdrawn for a period of ninety (90) days after the designated closing time for receipt of proposals.

ADDENDA

All addenda issued before the proposal due date shall become part of the RFP documents, shall be covered in proposal response, and will be made part of the contract. It is the responsibility of each bidder to check for any addenda issued related to this RFP before submitting a proposal.

APPLICABLE LAW

The resulting contract shall be governed under the laws of the State of Wisconsin. The vendor shall always comply with and observe all Federal and State laws, Local laws, ordinances, and regulations which are in effect during the period of this contract and which in any manner affect the work or its conduct.

LIABILITY

The City is not liable for any costs incurred in replying to this proposal. All proposals become the property of the City and are considered public records (not confidential).

INSURANCE REQUIREMENTS

Vendor agrees to indemnify, hold harmless, and defend the City of Edgerton, its officers, agents and employees from any and all liability including claims, demands, losses, costs, damages and expenses of every kind and description or damage to persons or property arising out of or in connection with or occurring during the course of the contract. Vendor agrees to maintain worker's compensation insurance as required by Wisconsin Statutes for all employees engaged in the work. Vendor agrees to maintain commercial and professional liability, bodily injury and property damage insurance against any claim(s) which might occur in carrying out this contract. Liability coverage shall be provided in the amounts of at least \$1,000,000 per occurrence and \$3,000,000 aggregate per year for personal or bodily injury, \$100,000 property damages, and \$5,000 for medical payments. Automobile bodily injury of \$1 million per occurrence, and \$3 million dollars per annum; (4) Crime coverage of \$1 million dollars per occurrence and per annum; Technology Errors & Omissions of \$5 million per annum, inclusive of defense costs; and Network Security/Privacy Liability with a sublimit for data breach response of at least \$2.5 million and overall liability coverage of \$5 million per annum. If your company wants to

submit a proposal but cannot meet the insurance coverage threshold, please note that in your proposal. We are dedicated to working with smaller businesses and can discuss alternatives to the limit if your proposal is in the final selection stage. Coverage afforded shall apply as primary with the City of Edgerton named as additional insured. The city will not accept additional charges for the coverage. The City reserves the right to require higher or lower limits where warranted.

PERFORMANCE AND PAYMENT BOND

Proposal response shall include an electronic copy of bid bond payable to the owner as a bid guarantee in the amount equal to 10% of the total bid. If the bid is accepted, the bidder will execute and file the proper contract and bond within 15 days after the award of the contract. Emailed bids must include a scan of the certified check or bid bond.

A performance and payment bond, each valued at 100% of the total price shall be included in Vendor's proposal and provided with the signed contract.

PAYMENT

Standard payment terms are net 30 days. Invoices should be sent to mdeegan@edgerton.wi.gov for processing. The City of Edgerton prefers payments to occur at the completion of major milestones.

PRICING

Prices quoted herein shall remain firm throughout the initial term of the contract period.

QUESTIONS

All questions regarding this BID/proposal should be directed to Ramona Flanigan with the City of Edgerton, rflanigan@edgerton.wi.gov. Answers to questions that are relevant to all bidders will be posted on the City's website.

It is the responsibility of each bidder to check for answers to questions by visiting https://www.cityofedgerton.com/city_government/advertisement_for_bids.

PROJECT OFFEROR REQUIREMENTS

Offeror's submittals must meet the following minimum conditions to be considered.

1. Proposal submitted on time.
2. Be located locally and/or within the state.
3. Have an NABCEP certified installer on staff (or similar industry certification).
4. Offeror and/or subcontractor have at minimum, 500kW installed capacity of commercial solar experience.
5. Offeror and/or subcontractor is an electrical contractor that has all applicable licenses (state and/or local).
6. Are able to offer an ongoing Operations and Maintenance program.
7. The Offeror shall provide at least a 5-year Workmanship Warranty for all work completed for the Project.

SOLAR PV DESIGN SPECIFICATIONS

1.0 Solar Incentives

The City of Edgerton intends to apply for Focus on Energy and Direct Pay solar incentives available to municipalities under the U.S. Inflation Reduction Act. Offeror shall be responsible for providing all documentation necessary for submission of incentive applications as required by the rules of the relevant incentive program administrators. The incentives that the city intends to pursue include the following:

- Focus on Energy Incentive (TBD)
- Inflation Reduction Act Direct Pay Base Incentive (30%)
- Inflation Reduction Act Domestic Content Bonus Incentive (10%)

2.0 Utility

2.1 Utility Consumption and Tariff

The lift station uses approximately 88,800 kWh of electrical energy annually under the GS1 – General Electric Service tariff. (See attachment A for power usage details.)

2.2 Interconnection

Offeror shall be responsible for assembling the applications for all necessary interconnection agreements for the Project with Wisconsin Power & Light (WPL). WPL has an interconnection process that includes an interconnection fee. Upon receipt and review of the interconnection application, the utility may also require an additional engineering review and/or distribution study. Offeror shall include in their proposal and base bid any known fees, costs, and expenses related to the utility interconnection, and include a provision in their proposal for treatment of additional costs that might result from additional utility requirements. Utility work required as a result of the interconnection agreement that is on the site side of the WPL meter shall be at the sole cost and expense of the Offeror.

3.0 SYSTEM DESIGN/PROCUREMENT

3.1 Design Review Process

Offeror is responsible for providing designs within the Project to the City for its review and approval in accordance with the terms and conditions of the Design, Construction, and Installation Proposal. Costs for engineering reviews and approvals associated with such designs shall be borne by the Offeror. The schedule for the Project shall include adequate time for the City's review and approve such submittals.

3.2 Shading

Offeror shall avoid excessive shading on modules to the extent possible. Where shading losses are encountered, Offeror shall perform a shading analysis with their design and explain any impact that shading might have.

3.3 Offeror Licensing

Offeror shall comply with all applicable licensing requirements for the work to construct and install the Project.

3.5 Permits and Approvals

Offeror, at its sole cost and expense, shall obtain all permits and approvals required by applicable law for the Project from the State of Wisconsin, and municipalities when applicable, including without limitation any permits for road closures.

3.6 Technical Requirements

All components of the Project and their installation and subsequent operation shall comply with all applicable industry codes and standards and all applicable laws. Offeror shall demonstrate to the City of Edgerton reasonable satisfaction that the existing structures will not be compromised or adversely impacted by the installation and/or operation of the System that the Offeror has proposed to install. In addition, an Offeror's proposed system shall comply with the following requirements.

- *PV Modules:*
 - Shall be IEX 61703 listed, have a minimum product warranty of 12 years and a 30-year performance warranty of at least 84% nominal power.
 - Minimum efficiency: 21:03%
 - Minimum nominal power: 545W, Bifacial module with dual glass.
 - Cell Type: N Type Mono-crystalline
 - Frame: Aluminum Alloy
 - Operating temperature: -40 °F to 185 °F.
 - Junction Box: IP67 or IP68 Rated.
 - Snow Load: 5400 Pa minimum.
 - Bifacial Gain: 5% - 25%
 - Shall be manufactured by ZNShine, Hanwha Q Cells, Jinko Solar, Trina Solar or equal.

- *Inverters:*
 - Shall be manufactured by SolarEdge or equal.
 - Have a minimum product warranty of 20 years.

- *Power Optimizers:*
 - Shall be manufactured by SolarEdge or equal.
 - Provide one (1) power optimizer per every two (2) solar modules.
 - Have a minimum product warranty of 20 years.

- *Ground-Mounted PV Module Racking Systems:*
 - Shall be manufactured by APA Solar Racking, IronRidge, Unirac, or equal. Provide all necessary substructures and rail assemblies for a complete ground mounted system. Ground mount system shall be UL 2703 listed with a 20-year warranty.
 - PV module frames shall be grounded using Burndy model WEEB-PMC washers and bonding jumpers and WEEBlug-6.7 hardware, or equal. Grounding shall be in accordance with NEC requirements and PV module and racking system manufacturer recommendations.
 - PV module tilt angle shall be 30 degrees and modules shall be mounted minimum three feet above finished grade.

- *Electrical Balance of System Components:*
 - The PV system shall include, at a minimum, one fused DC disconnect, and one fused AC disconnect for safety and maintenance concerns.
 - String combiner boxes shall be load-break, disconnecting types, such that opening the combiner boxes shall break the circuit between combiner box feeders and inverters.
 - Offeror shall include lightning arrestors to protect AC equipment from lightning strikes where appropriate. If the contractor wishes to recommend lightning arrestor equipment for the DC side of the system, this should be added as an informational cost on a separate line item apart from the base bid and any alternate bids.
 - Offeror shall utilize surge suppressors to protect equipment from electrical surges where appropriate.
 - All wiring materials and methods must adhere to industry-standard best practices, and all inter-module connections must require the use of a specialized tool for disconnecting.
 - Placards and Signage. Placards and signs shall correspond with requirements in the National Electric Code and the applicable interconnection agreement in terms of appearance, wording, and placement. Permanent labels shall be affixed to all electrical enclosures, with nomenclature matching that found in As-Built Electrical Documents.
 - The PV array will not have a perimeter fence. To meet NEC code requirements, circuit conductors must be guarded or installed in a raceway for PV source and output circuits operating at maximum system voltages greater than 30 volts. Guarding of the PV circuits can be accomplished by:
 - i. enclosing the PV wire within a raceway
 - ii. by using commercially available scrim or similar type of material, metal barrier, metal mesh, or similar product that prevents the PV wire from being damaged
 - iii. using other approved methods of guarding
 - Offeror shall install all AC conductors in conduit. Direct burial wire will not be acceptable. Conduit buried underground shall be suitable for the application and compliant with all applicable codes. A tracing/caution tape must be installed in the trench over all buried conduits. Conduit installed using horizontal directional boring (HDB), shall include metallic tracer wire or traceable conduit. Unless applicable law is more stringent, the minimum depth of the conduit shall be per NEC 2011 Article 300.5. The Offeror must provide documentation to City of Edgerton of final depth and routes of all conduits installed.
 - All spare conduits shall be cleaned and provided with a pull wire.
 - All exposed conduit runs over 100-feet in length or passing over building connection points shall have expansion joints to allow for thermal expansion and building shift.
 - Exposed string cable homeruns shall be installed along module frames, module racking, or within an appropriate raceway.
 - All exposed string wiring must be installed along the surface of the structural purlins and beams. Wire loops under framing members are not acceptable.

- Wiring between panels should be secured to avoid shading of bifacial PV panels. Wire shall not excessively obscure the back of PV cells and shall not be in contact with the module backsheet.
- Voltage drops in both DC and AC circuits shall not exceed 1.5%.
- All cable terminations, excluding module-to-module and module-to-cable harness connections, shall be permanently labeled.
- All electrical connections and terminations shall be torqued according to manufacturer specifications and marked/sealed at appropriate torque point.
- Grounding and Bonding
 - Module ground wiring splices shall be made with irreversible crimp connectors.
 - All exposed ground wiring must be routed above the lower surface of any structural framing.
- *Monitoring System:*
 - Provide all configuration required to incorporate the solar PV system into the inverter manufacturer's web-based monitoring platform. This shall include, but not be limited to, developing the system layout using project-specific equipment, user access for OWNER's staff, alarms, historical data, and trending. The web-based monitoring platform shall not require a subscription fee and shall be configured for public viewing access.

Cost Option(s):

- Option #1 – Pollinator-Friendly Seed Mix
The vendor shall provide a native pollinator seed mix under the ground-mount solar array to support local wildlife, improve soil health, and reduce long-term maintenance. The seed mix shall consist of a diverse blend of native grasses and wildflowers, specifically selected to attract, and support pollinators such as bees, butterflies, and other beneficial insects. The chosen species must be compatible with the site's soil conditions, climate, and regional pollinator populations.
- Option #2 – Aggregate Base Course
The vendor shall provide 3" washed stone aggregate base course over weed barrier fabric in areas directly underneath proposed solar arrays.

PROPOSAL FORM

[Date]

PROJECT NAME: City of Edgerton WWTP Ground-Mounted Solar PV RFP

Contractor Name / Phone Number:

Acknowledgement:

The undersigned has examined any and all Addenda if any issued during the Bid period and is familiar with all the contents thereof and acknowledges all Addenda.

Addenda: Receipt of Addenda number(s) _____ is included in contractor's pricing.

The undersigned represents that it has examined the sites, read the bid documents, and understands the documents and conditions affecting the project. The undersigned understands and will perform all work associated with this project within all applicable laws, ordinances, rules, and regulations that may affect cost, progress, or performance of the work. The undersigned accordingly submits the following bids:

A. Base Bid(s):

Base Bid #1: Ground-Mounted Solar PV System (20kW-ac)	\$
Base Bid #2: Ballasted Ground-Mounted Solar PV System (20kW-ac)	\$

B. Cost Option(s):

Cost Option #1: Provide Pollinator-Friendly Seed Mix For under Array	\$
Base Bid #2: Provide weed barrier with ¾" washed Stone under Array Area	\$

I hereby certify that all statements made herein are made on the behalf of:

Legal Name of Company:

Street Address, City, State, Zip

Email

Phone Number

Name:

Print Name

Title

Signature

Date

UTILITY RATES

Customer Charges				Energy Charges			
Season	Charge Type	Rate Type	GS-1	Season	Charge Type	Rate Type	GS-1
S1	Flat Rate	per day	\$0.84	S1	Flat Rate	Import	\$0.13467

CURRENT ELECTRIC BILL

RATE SCHEDULE: WPL - GS-1

Time Periods	Energy Use (kWh)	Charges		
		Other	Energy	Total
1/31/2024 - 2/29/2024 S1	7,900	\$24	\$1,064	\$1,088
2/29/2024 - 3/29/2024 S1	8,400	\$24	\$1,131	\$1,156
3/29/2024 - 4/30/2024 S1	11,900	\$27	\$1,603	\$1,629
4/30/2024 - 5/31/2024 S1	9,200	\$26	\$1,239	\$1,265
5/31/2024 - 6/30/2024 S1	10,900	\$25	\$1,468	\$1,493
6/30/2023 - 7/31/2023 S1	6,000	\$26	\$808	\$834
7/31/2023 - 8/31/2023 S1	5,900	\$26	\$795	\$821
8/31/2023 - 9/29/2023 S1	5,600	\$24	\$754	\$778
9/29/2023 - 10/31/2023 S1	6,700	\$27	\$902	\$929
10/31/2023 - 11/30/2023 S1	6,900	\$25	\$929	\$954
11/30/2023 - 12/29/2023 S1	7,000	\$24	\$943	\$967
12/29/2023 - 1/31/2024 S1	8,700	\$28	\$1,172	\$1,199
Total	95,100	\$307	\$12,807	\$13,114

Rock County, Wisconsin Land Records



Address Points



Tax Parcel Layer

Custom



OVERLAP

Lot Lines

