

Jijak Gises Project



Elizabeth Binoniemi Smith, Environmental Director
Match-E-Be-Nash-She-Wish Band of Pottawatomis Indians

The Match-E-Be-Nash-She-Wish
Band of Pottawatomí Indians
(Gun Lake Tribe)

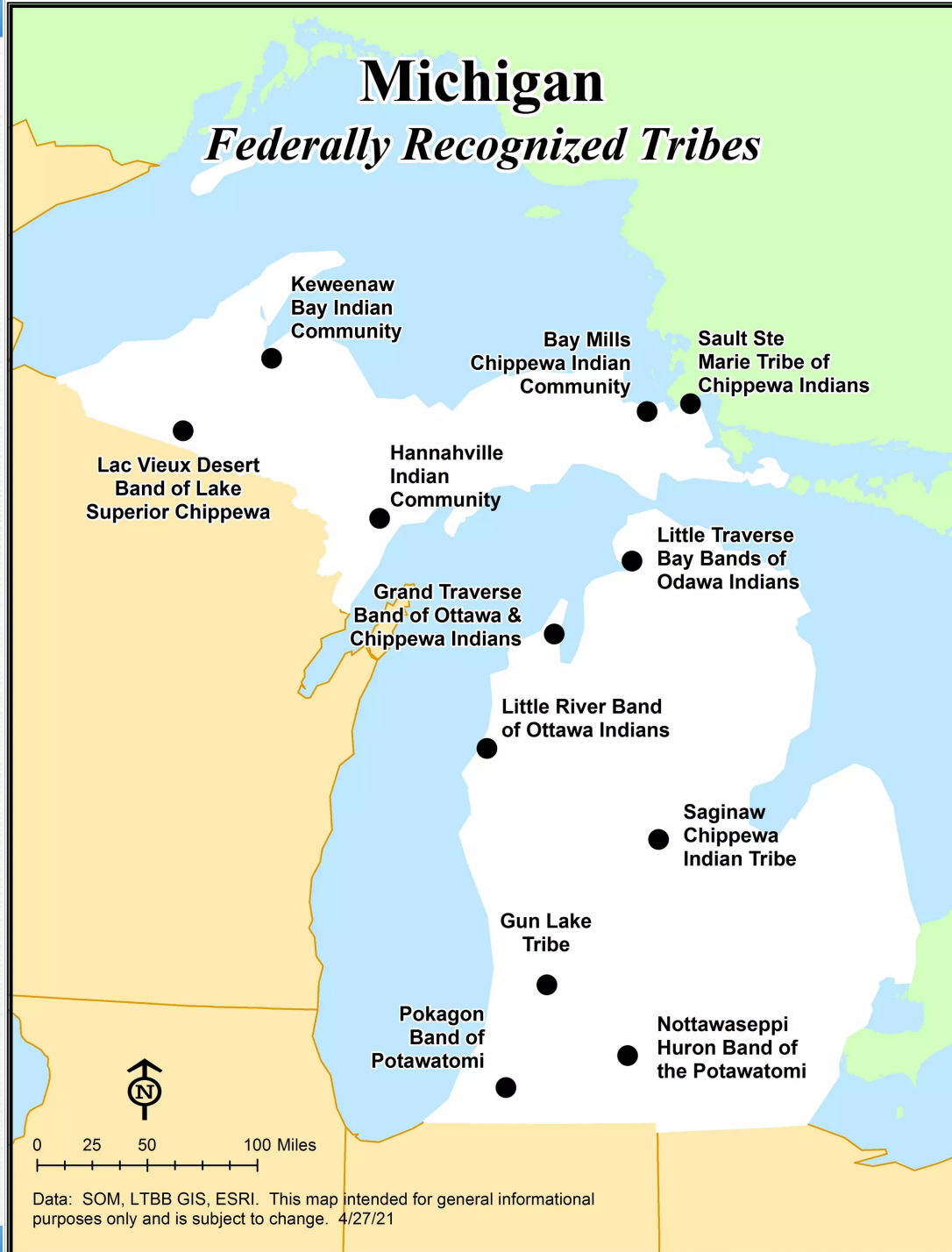
The Three Fires Confederacy, an
alliance of the Pottawatomí
(Bodewadmi), Ottawa (Odawa) and
Chippewa (Ojibwe).

Tribal Nations in the Great Lakes
region are also known as the
Neshnibek, or original people.



Michigan

Federally Recognized Tribes



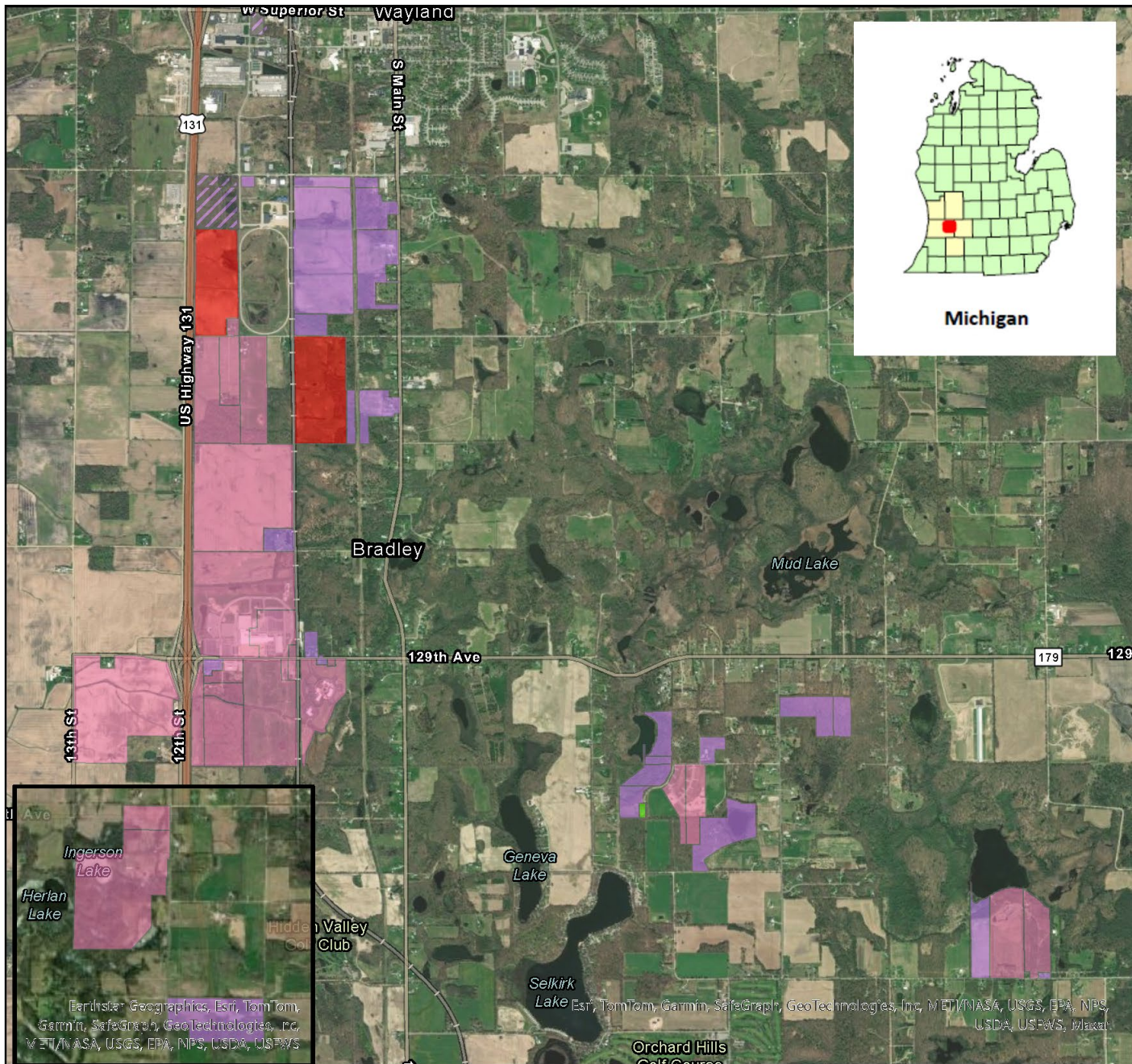
Match-E-Be-Nash-She-Wish Demographics

1,676 acres of Tribal land

610 Tribal Citizens

Government Campus located
in Shelbyville, Michigan





Gun Lake Tribe Tribal Lands

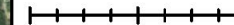
Legend

- Fee
- Wholly Owned Tribal Subsidiary
- Pending Fee to Trust Application
- Trust
- Trusteeship

Fee: 636.54 acres
 Trust: 1007.44 acres
 Total: 1,643.98 acres



0 0.28 0.55 1.1 Miles

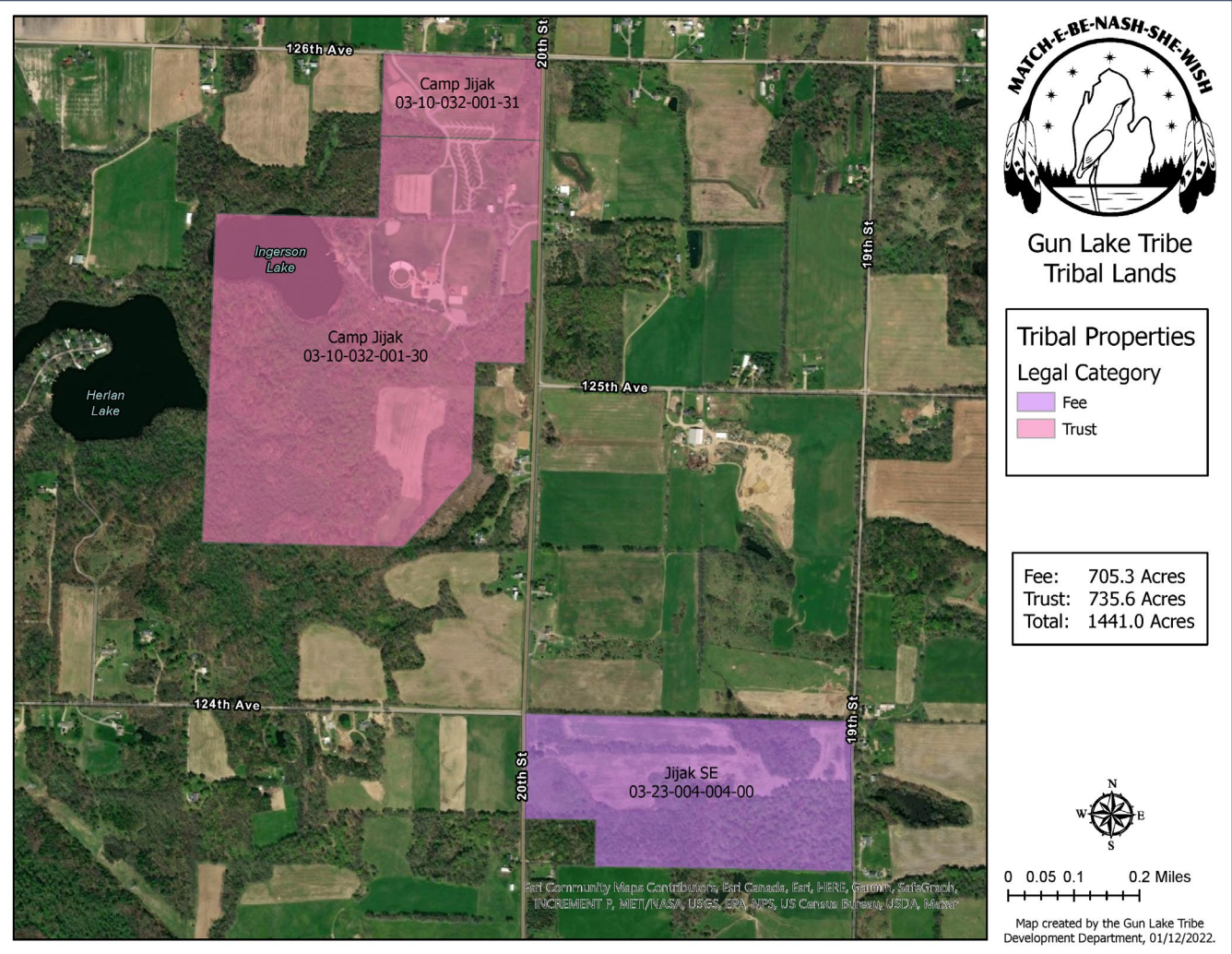


Map created by the Gun Lake Tribe
 Land Use, Planning, and
 Development Department, 4/23/2024

Earthstar Geographics, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar

Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar

Jijak Property





Jijak Gises Project Team

- Melissa Brown – Business Contact, Senior Director of Operations
- Elizabeth Binoniemi Smith – Technical Contact, Environmental Director
- Shawn McKenney – Environmental Specialist





**Gun Lake Tribe
Environmental Department**





We, the members of the Match-E-Be-Nash-She-Wish Band of Pottawatomis Indians of Michigan, will maintain our elders' vision, integrity, spirituality, culture and economic self-sufficiency by protecting our sovereignty, treaty rights, traditions, land and natural resources for our future generations.

Jijak Gises Project

- Objective 1. Complete all planning and preparations for the installation of photovoltaic solar array
- Objective 2. Install and grid connect 88,000 kWh photovoltaic solar array
- Objective 3. Fulfill all Department of Energy (DOE) grant requirements





Before the Jijak Gises Project

- 2015 Climate Change Adaptation Plan
- Tribal Council Strategic Plan includes a long-term goal to enhance infrastructure and strengthen Tribal self-sufficiency by expanding renewable energy programs and alternative power sources
- Renewable Energy Master Plan facilitated by DOE NREL
- Photovoltaic feasibility studies for four Tribally owned properties, including the Jijak Property
- Installed small solar arrays at the Tribal housing development and Luella Collins Community Center
- Retrofitted the government buildings and Gun Lake Casino with LED lights



Jijak Gises Project

69 KW Solar Array

- Up to 100% of the electrical consumption of the dining hall, rec hall, cabins/bathrooms, sugar house, powwow arena, auxiliary buildings and other outdoor lights at the property.
- 88,000kWh Annual Electric Consumption

Federal funds requested: \$270,149

Cost-share proposed: \$68,127

Total Project Costs: \$338,276



Jijak Gises Project

- Save over \$312,000 over the life of the system
 - \$12,550 annually
- Reduce the Tribe's reliance on non-renewable energy sources
- Increase renewable energy generating capacities
- Conserve the environment for the next seven generations
- Enhance and strengthen Gun Lake Tribe's sovereignty and economic stability
- Save 3,000 tons of carbon dioxide emissions over the life of the system



Jijak Gises Project

- Awarded October 1, 2023
- Constructed May – June 2024
- Grid connected/Deployed July 16, 2024
- Generates between 10 – 12 MWh per month
- \$1,000+ savings per month
- On track to meet and possibly exceed generation goal
- <https://egauge95423.egauge.io/ng/>

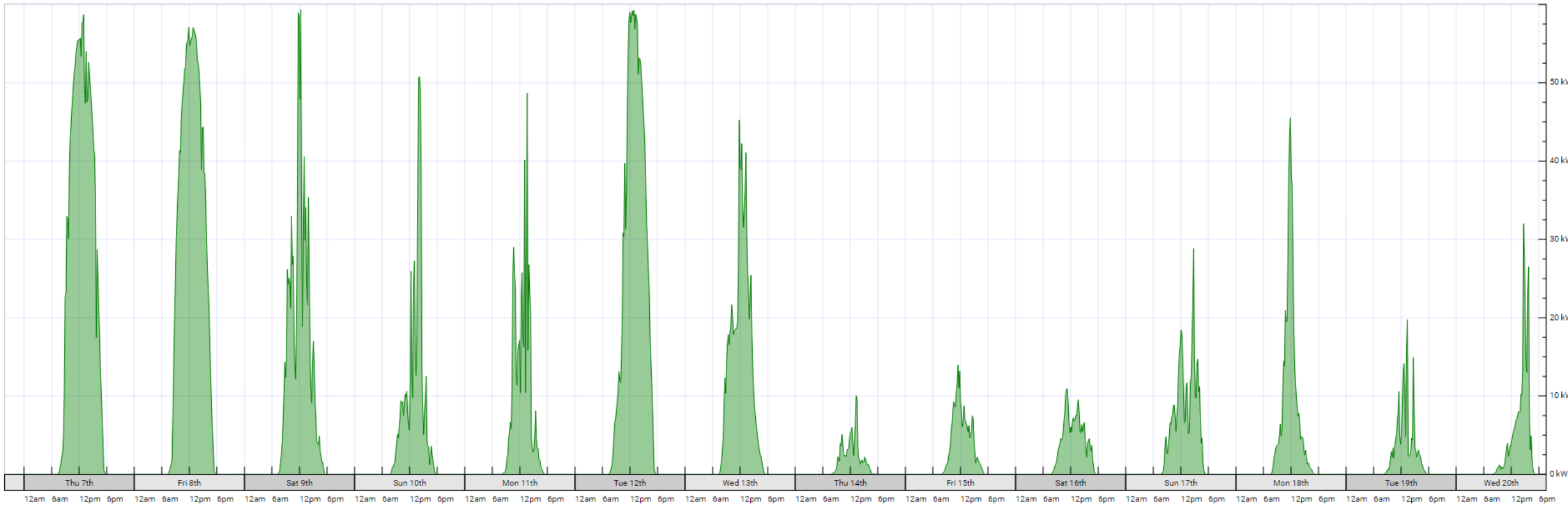


Jijak Gises Project

- 68.87 kW, 142 panels
- 88,056 kWh estimated annual production
- \$11,045 estimated annual electric bill savings
- \$206,431 project cost



Time period...
last 2 weeks



11/20/2024 7:38:27pm (local)



<input type="checkbox"/> Electricity generated	0.01 kW	<input type="checkbox"/> From utility	0.00 kW	<input checked="" type="checkbox"/> To utility	0.01 kW	<input type="checkbox"/> L1 Voltage	<input type="checkbox"/> L2 Voltage
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eGauge95423 Center

[View](#) | [LAN Access](#) | [Tools](#) | [Settings](#) | [Help](#)

8/6/2024 3:44pm – 9/6/2024 3:44pm

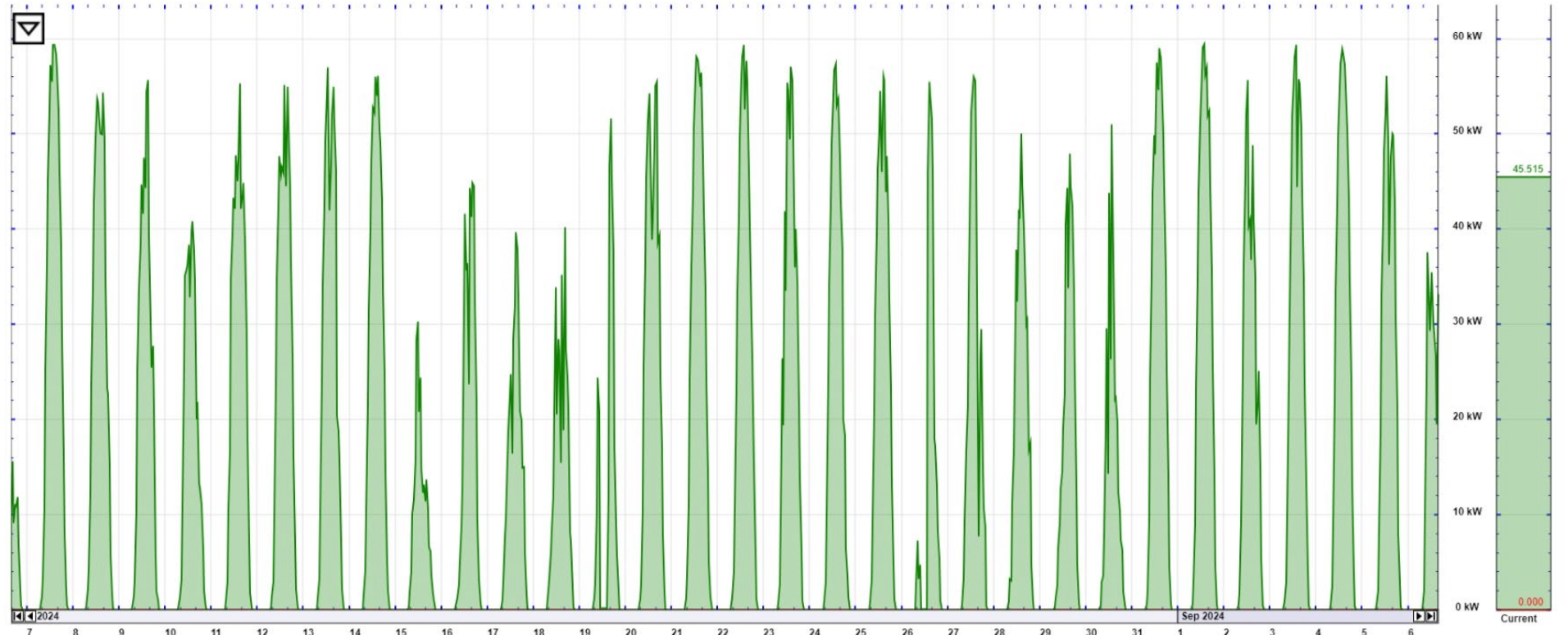
Summary for time-period shown in graph

Energy Used	0.00 Wh	(approx. \$0.00 used)
Energy Generated	11.2 MWh	(approx. \$1,451.62 saved)
Net	11.2 MWh sold	(approx. \$1,451.62 earned)

Summary over last 30 days

Energy Used	0.00 Wh	(approx. \$0.00 used)
Energy Generated	8.30 MWh	(approx. \$1,079.64 saved)
Net	8.30 MWh sold	(approx. \$1,079.64 earned)

- All
- 1y
- 6M
- 3M
- 1M
- 3w
- 1w
- 3d
- 1d
- 12h
- 6h
- 3h
- 1h
- 10m
- Auto
- 500kW
- 100kW
- 50kW
- 10kW
- 5kW
- 1kW
- 500W
- 100W
- 50W



<input checked="" type="checkbox"/> Power used	<input checked="" type="checkbox"/> Energy from grid	<input checked="" type="checkbox"/> Power generated	<input checked="" type="checkbox"/> Energy to grid
<input type="checkbox"/> L1 Voltage pos./neg.	<input type="checkbox"/> L2 Voltage pos./neg.	<input type="checkbox"/> L3 Voltage pos./neg.	<input type="checkbox"/> Production gen./use
<input type="checkbox"/> Toggle all/inone			



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9/25/2024 12:07am - 10/23/2024 12:00pm

Summary for time-period shown in graph

Energy Used	0.00 Wh	(approx. \$0.00 used)
Energy Generated	9.39 MWh	(approx. \$1,220.56 saved)
Net	9.39 MWh sold	(approx. \$1,220.56 earned)

Summary over last 30 days

Energy Used	0.00 Wh	(approx. \$0.00 used)
Energy Generated	5.29 MWh	(approx. \$687.23 saved)
Net	5.29 MWh sold	(approx. \$687.23 earned)

- All
- 1y
- 6M
- 3M
- 1M
- 3w
- 1w
- 3d
- 1d
- 12h
- 6h
- 3h
- 1h
- 10m
- Auto
- 500kW
- 100kW
- 50kW
- 10kW
- 5kW
- 1kW
- 500W
- 100W
- 50W



<input checked="" type="checkbox"/> Power used	<input checked="" type="checkbox"/> Energy from grid	<input checked="" type="checkbox"/> Power generated	<input checked="" type="checkbox"/> Energy to grid
<input type="checkbox"/> L1 Voltage pos./neg.	<input type="checkbox"/> L2 Voltage pos./neg.	<input type="checkbox"/> L3 Voltage pos./neg.	<input type="checkbox"/> Production gen./use
<input type="checkbox"/> Toggle all/none			



Need to talk to us? Visit [ConsumersEnergy.com](https://www.consumersenergy.com)
or call **800-805-0490**
Telecommunications Relay Services: Call 7-1-1

Account Information

Bill Month: November
Service dates: 09/25/2024 - 10/23/2024
Days Billed: 29
Portion: 03 11/24

Programs:
Distributed Generation

Rate Information

Elec Gen Sec Rate GS Com
Rate: 1100

Meter Information

Your next scheduled meter read
date is on or around 11/23/2024

Electric Service:

Beginning Read Date: 09-25
Ending Read Date: 10-23
Beginning Read: 4245
Ending Read: 4287 (Actual)
Differential: 42
Constant: 100
Usage: 4200 kWh

Total Metered Energy Use: 4200.0 kWh
Total Generated Usage: 7,400.000 kWh

November Energy Bill

Account Summary

Last Month's Account Balance	\$386.88
Payment on October 04, 2024	\$386.88
Balance Forward	\$0.00

Payments applied after Oct 24, 2024 are not included.

Self Generated Outflow

Energy	7400@ 0.087058-	\$644.23-
PSCR	7400@ 0.002590	\$19.17
Total Generation Credit		\$625.06-
Previous Credit Balance		\$0.00
Generation Credit Applied		\$625.06-
Carry Forward Credit		\$0.00

Electric Charges

Energy	4200@ 0.087058	\$365.64
PSCR	4200@ 0.002590-	\$10.88-
System Access		\$20.00
Deferral Surcharge	4200@ 0.000342	\$1.44
IRM Surcharge	4200@ 0.000119	\$0.50
Distribution	4200@ 0.057594	\$241.89
FCM Incentive	4200@ 0.000187	\$0.79
Other Surcharges		\$124.91
Power Plant Securitization	4200@ 0.001263	\$5.30
Karn 1&2 Securitization Charge	4200@ 0.004103	\$17.23
Low-Income Assist Fund		\$0.87
Total Electric		\$142.63

Total Energy Charges \$142.63

Amount Due: \$142.63
by November 15, 2024

If you pay after the due date, a 2% late payment charge
will be added to your next bill.

Please make any inquiry or complaint about this bill before the due date listed on the front.
Visit [ConsumersEnergy.com/aboutmybill](https://www.consumersenergy.com/aboutmybill) for details about the above charges.



Jijak Garden Solar Array

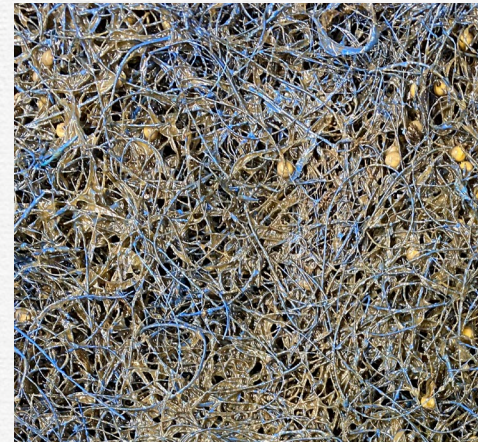
- 4.85 kW, 20 panels
- 6,168 kWh estimated annual production
- \$688.34 estimated annual bill savings
- \$23,733 project cost
- Install/Deployed September – October 2024



Wisgak Conservation



Mnomen Restoration



Nmé Rehabilitation



Pollution Prevention



Education and Outreach



**Migwech!
(Thank you!)**

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**Gun Lake Tribe
Environmental Department**