

Saratoga Solar Project

Presented by Garrett Ketchen, Sr. Development Manager

Facilitated By:

- Travis Narum – VP of Development (Savion)
- Emily Truebner – VP of Permitting & Environmental (Savion)
- Joe Shire – Sr. Engineer (Savion)
- James McDaniel – Sr. Battery Storage Engineer (Savion)
- Paul Rogers – Energy Storage Specialist NYC (ESRG)
- Chris Pekar – Renewables Sector Leader, US East (Stantec)

Agenda

- Savion Introduction
- Solar Background Info
- Energy Storage Background Info
- Project Overview
- Economic Impact
- Visual Simulations
- FAQs

About Savion

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Savion is a leading developer of utility-scale solar photovoltaic (PV) projects throughout the United States. Savion, now a wholly-owned subsidiary of Shell New Energies US LLC (SNEUS) is operating under its existing brand within Shell's Renewables & Energy Solutions business. The company was built on a foundation of specialized experience and mastery in the craft of development.

With a growing portfolio of more than 11 GW, Savion is currently one of the country's largest and most technologically advanced utility-scale solar and energy storage project development companies.

Savion's diverse team provides comprehensive services at each phase of renewable energy project development, from conception through construction. Savion is committed to helping decarbonize the energy grid by replacing electric power generation with renewable sources and delivering cost-competitive electricity to the marketplace.



About Us



Founded in 2019, the Savion team is comprised of utility-scale solar and energy storage development experts.



U.S. based company headquartered in Kansas City, MO, with projects in various phases across 28 states.



Over 115 employees providing comprehensive services at each phase of renewable energy project development.

Expertise and Strategic Partnerships



Our Team of Experts

- Utility-scale solar power project development
- Utility-scale energy storage project development
- Land acquisition (real estate/title/mineral work)
- Energy storage integration
- Project acquisition and due diligence
- GIS and resource mapping systems
- Project design and EPC
- Transmission interconnection and delivery
- Origination and energy marketing
- Project design and engineering
- Meteorology
- Permitting
- Environmental studies
- Financial Analysis
- Regulatory



Our Partners and Customers

- Commercial and industrials
- Investor-owned utilities
- Cooperatives
- Municipalities
- State and federal utilities
- Landowners
- Project host communities
- County leadership

Portfolio

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Solar and Energy Storage in
Operation/Under
Construction/Contracted

2,013 MW
27 Projects
11 States

Solar in Development

9,908 MW
83 Projects
26 States

Energy Storage in Development

3,026 MW
46 Projects
18 States

Team's Development Success— 2,013 MW

Project	Division	State	Size MW	Year Online/Scheduled*
Confidential Project	Solar	OH	110 MW	2023
Confidential Project	Solar	CO	100 MW	2022
Confidential Project	Storage	CO	50 MW	2022
Confidential Project*	Solar	MS	100 MW	2022
Atlanta Farms Solar Project	Solar	OH	200 MW	2022
Confidential Project	Solar	TX	200 MW	2022
Confidential Project	Solar	TX	160 MW	2022
Confidential Project	Solar	VA	75 MW	2022
Wood County Solar Project	Solar	WI	150 MW	2022
Richland County Solar Project	Solar	WI	50 MW	2022
Muskegon County Solar Project*	Solar	MI	125 MW	2021
Confidential Project	Solar	TX	150 MW	2021
Westmoreland County Solar Project	Solar	VA	20 MW	2021
Twin Rivers Solar Plant*	Solar	FL	75 MW	2020
Greensville County Solar Project	Solar	VA	80 MW	2020
Hamilton County Solar Project*	Solar	FL	75 MW	2019
TWE Bowman Solar Project*	Solar	SC	75 MW	2019
Palmetto Plains Solar Project*	Solar	SC	75 MW	2019
TWE Myrtle Solar Project	Solar	VA	15 MW	2019
TWE Ahoskie Solar Project*	Solar	NC	5 MW	2016
Decatur Parkway Solar Project*	Solar	GA	80 MW	2015
Decatur County Solar Project*	Solar	GA	20 MW	2015
TWE Laurinburg Solar Project*	Solar	NC	5 MW	2015
TWE Kinston Solar Project*	Solar	NC	5 MW	2015
TWE Kelford Solar Project*	Solar	NC	5 MW	2015
TWE New Bern Solar Project*	Solar	NC	4 MW	2015
TWE Chocowinity Solar Project*	Solar	NC	4 MW	2015

*Sold and operating projects developed by the Savion team while part of Tradewind Energy

You May Recognize Us From

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WOOD COUNTY SOLAR PROJECT

- 150 MW project developed by Savion, now owned and operated by Alliant Energy – currently under construction
- As of January 2022, more than 140 construction workers are employed by the project
- Will provide over \$21 million to the County and Town over the life of the project



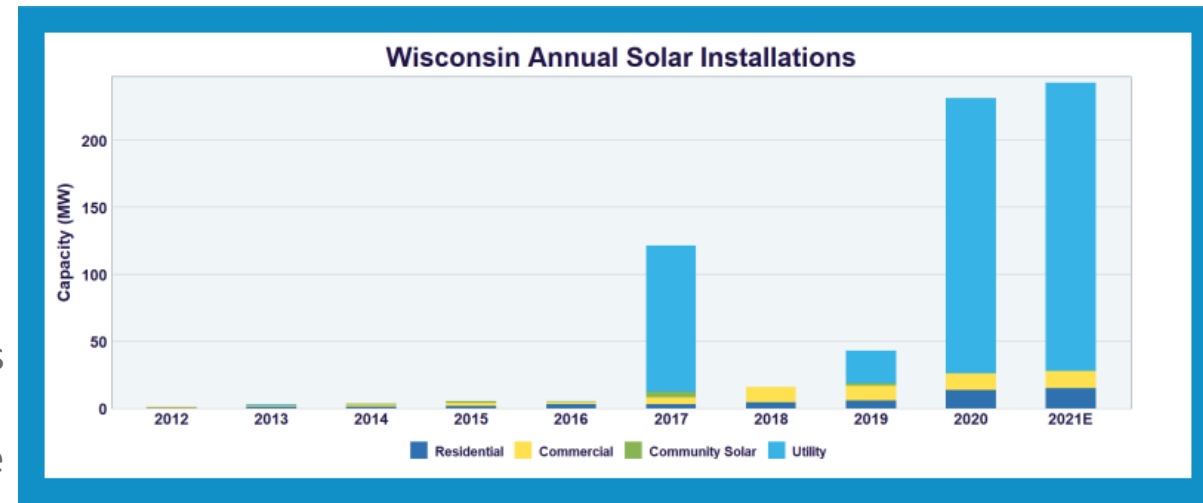
Typical Development Process

Projects take from 3-5 years from inception to construction

- Early Stage
 - Sign agreements with landowners – 50-75% of land needed
 - File interconnection application
 - Environmental Fatal Flaw analysis
- Mid Stage
 - Finalize site control
 - Field Environmental Studies – Phase 1 ESA, Threatened and Endangered Species, Wetlands
 - Design and Engineering
 - Field Cultural Studies
 - Community Outreach
 - Permitting – WI State CPCN
 - Transmission System Impact Study
 - Power Sales
- Late Stage
 - Signed Utility Sale Agreement (PPA or purchase)
 - Procurement
 - Transmission Facility Study and Interconnection Agreement
 - Construction & Commissioning

Solar In Wisconsin

- 20+ projects consisting of 620+ MW of solar installed throughout the state
- Approximately 950 MW currently in the permitting process
- 8100+ MW solar in the WI MISO queue as of January 2022
- \$800+ million solar investment so far. Over 1/3rd of that was in the last 2 years
- Solar installations expected to exceed 3,900 MW in the next 5 years
- These projects help bring Wisconsin closer to energy independence
- Wisconsin utilities are planning to retire multiple conventional power plants soon
- Wisconsin utilities have a strong appetite for renewable energy



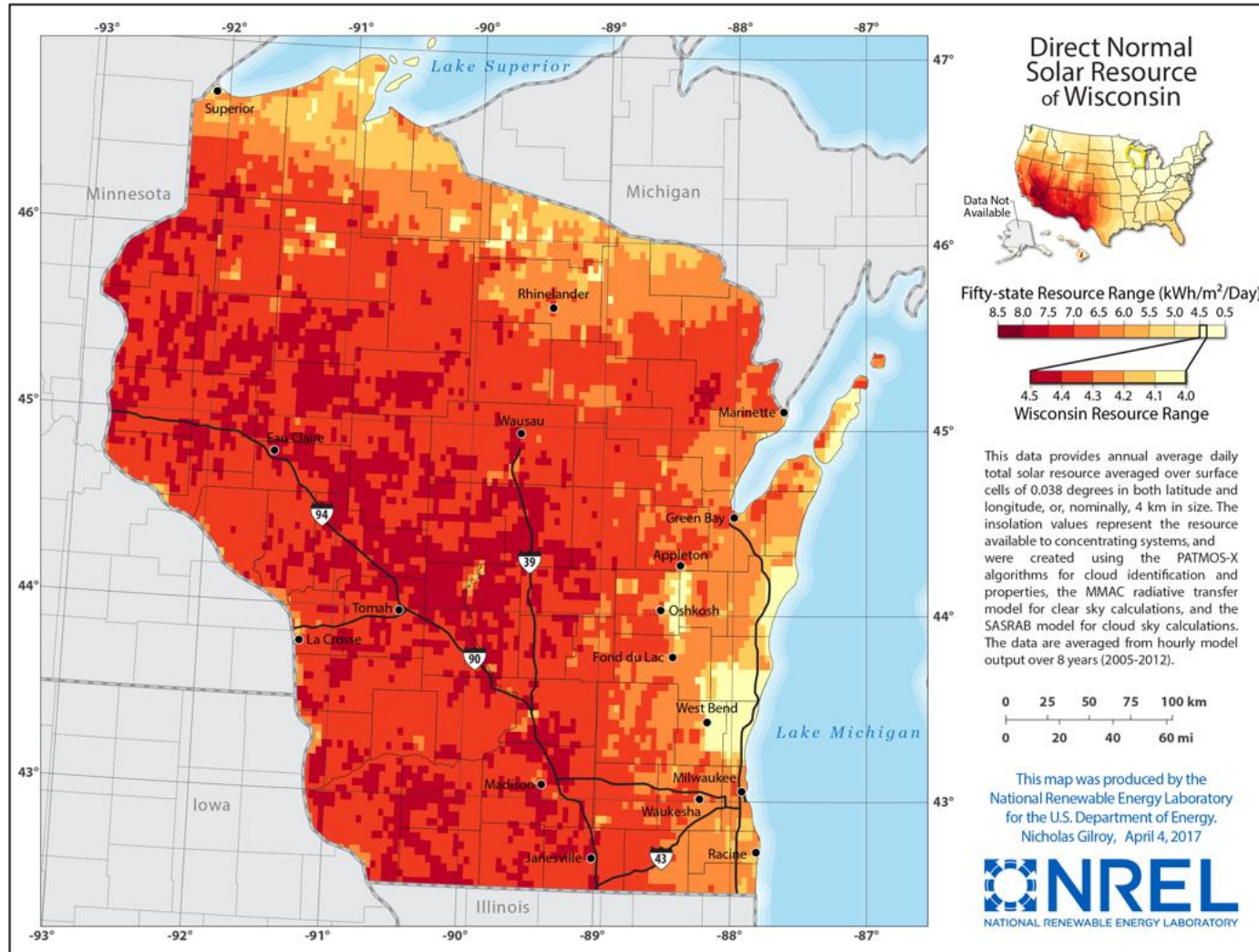
Learn more at www.seia.org/states

December 14, 2021

Wisconsin Utilities Renewables Goals

UTILITY	NO. CUSTOMERS	2020 RENEWABLES MIX	STATED GOAL
WEC (We Energies and Wisc. Public Service)	1.14 million + 446,000	WE: 6.2% WPS: 7.0%	80% CO2 reduction by 2030 Carbon neutral by 2050
Alliant Energy	470,000	21.2%	33% renewables by 2024 100% CO2 reduction by 2050
Madison Gas and Electric	153,000	15.5%	30% renewables by 2030 100% net-zero CO2 by 2050
Xcel Energy	241,000	32.9%	80% CO2 reduction by 2030 100% carbon-free by 2050
Dairyland Power	263,000	18.4%	PPAs for 98 MW Wind (2017), 149 MW Solar (2023)
WPPI Energy	200,000	12.4%	PPAs for 132 MW Wind (2018) and 100 MW Solar (2021)

Wisconsin's Solar Resource



Why Energy Storage?

Energy Storage is useful on a grid scale for 3 main reasons:

1. When charged with renewable energy like solar, energy storage delivers firm, flexible, clean energy and capacity.
2. Energy storage can store energy in times of excess production and discharge that energy when it is needed.
3. Energy storage provides real-time balance of power supply-and-demand, creating more reliable, stable, and productive power grids for our country

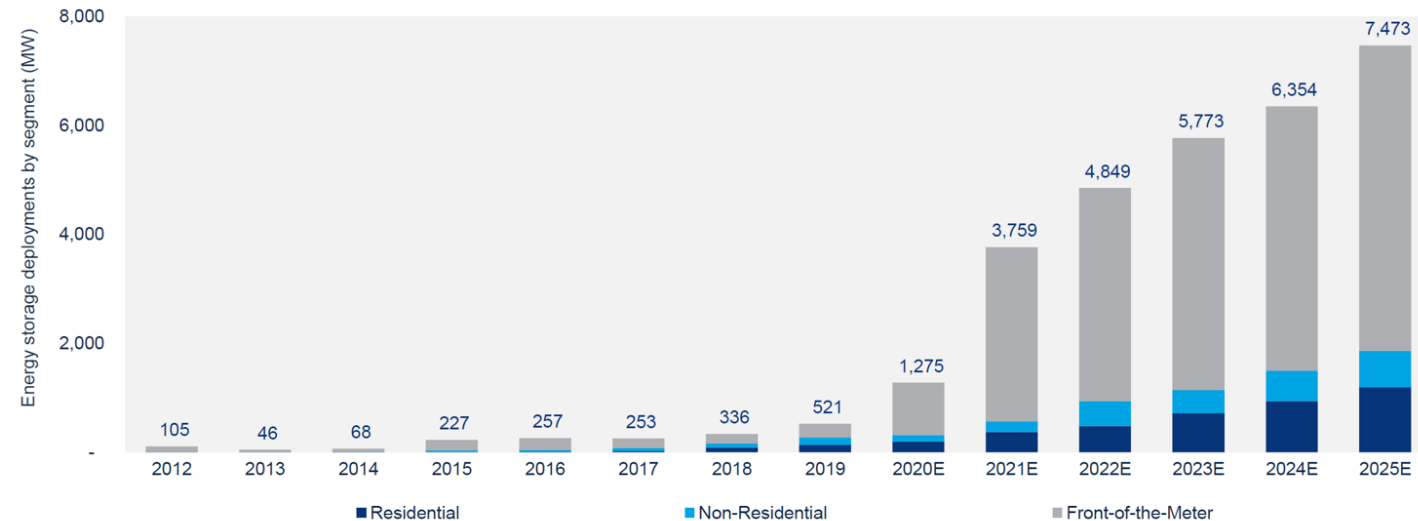
Wood Mackenzie P&R/ESA | U.S. energy storage monitor Q4 2020

woodmac.com 

U.S. energy storage deployments will reach almost 7.5 GW annually in 2025

Annual front-of-the-meter deployments are set to quadruple in 2020 versus 2019

U.S. energy storage annual deployment forecast, 2012-2025E (MW)



Source: Wood Mackenzie Power & Renewables

16

“Energy storage fundamentally improves the way we generate, deliver, and consume electricity. Energy storage helps during emergencies like power outages from storms, equipment failures, accidents or even terrorist attacks. But the game-changing nature of energy storage is its ability to balance power supply and demand instantaneously – within milliseconds – which makes power networks more resilient, efficient, and cleaner than ever before.” (ESA, 2019)

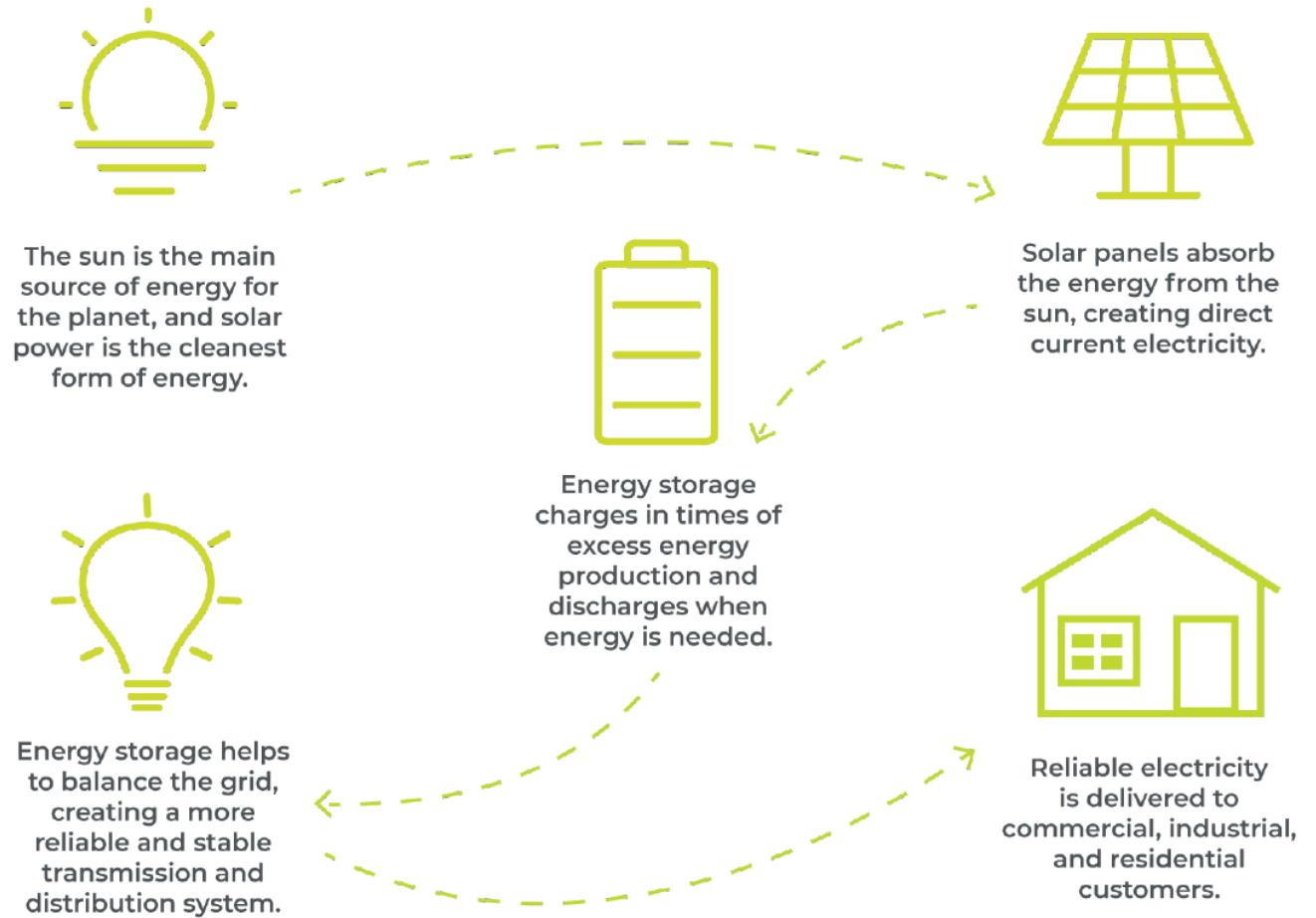
About the System

Grid energy storage systems do not generate electricity.

The siting of a typical system consists of multiple enclosures, each with multiple battery racks and electrical equipment to safely charge/discharge electricity to and from the grid.

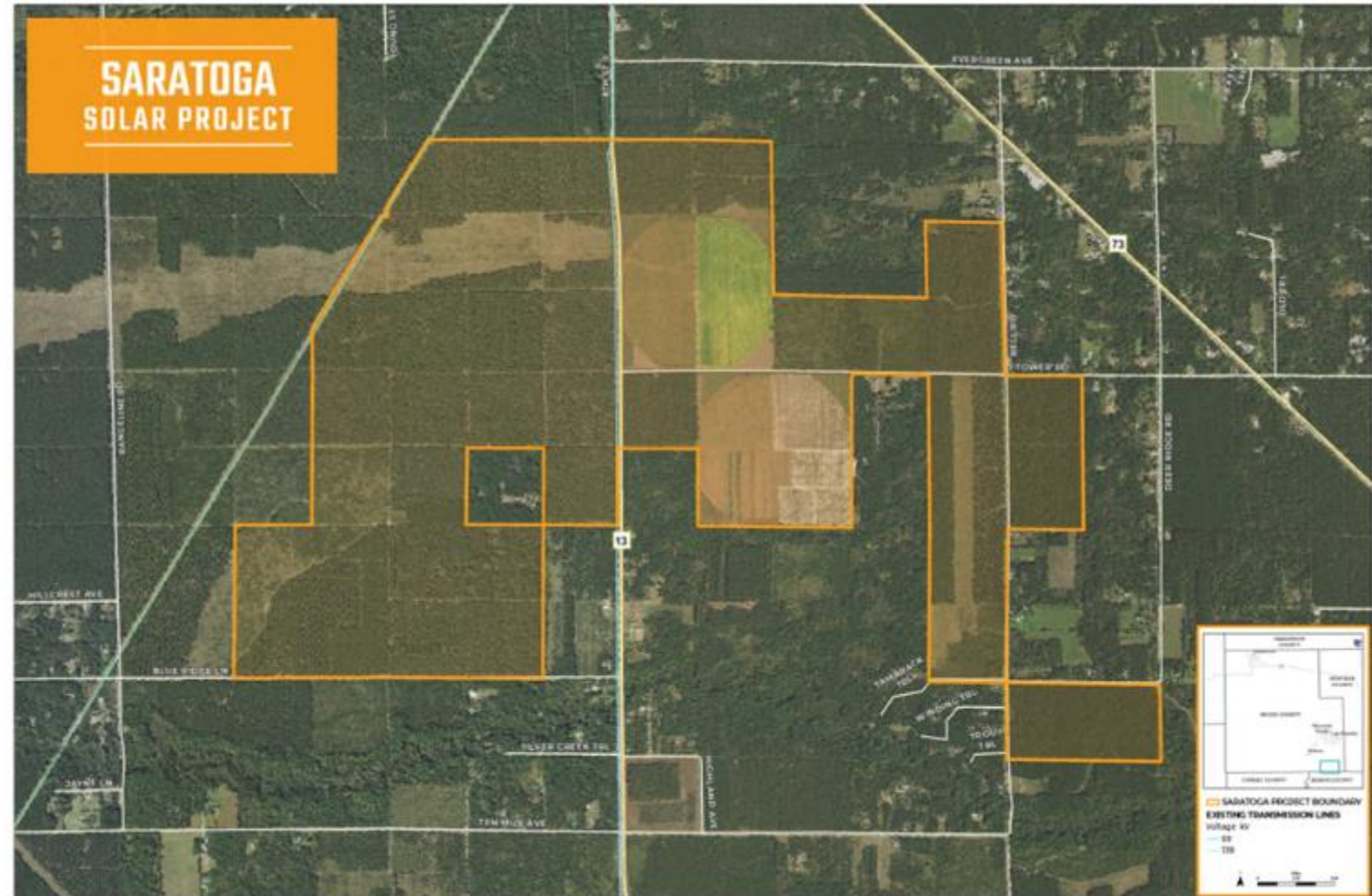
Systems are safe to humans, property, and the environment; produce no emissions; operate quietly; and are easily placed in urban, suburban, and rural settings.

How Energy Storage & Solar Power Work

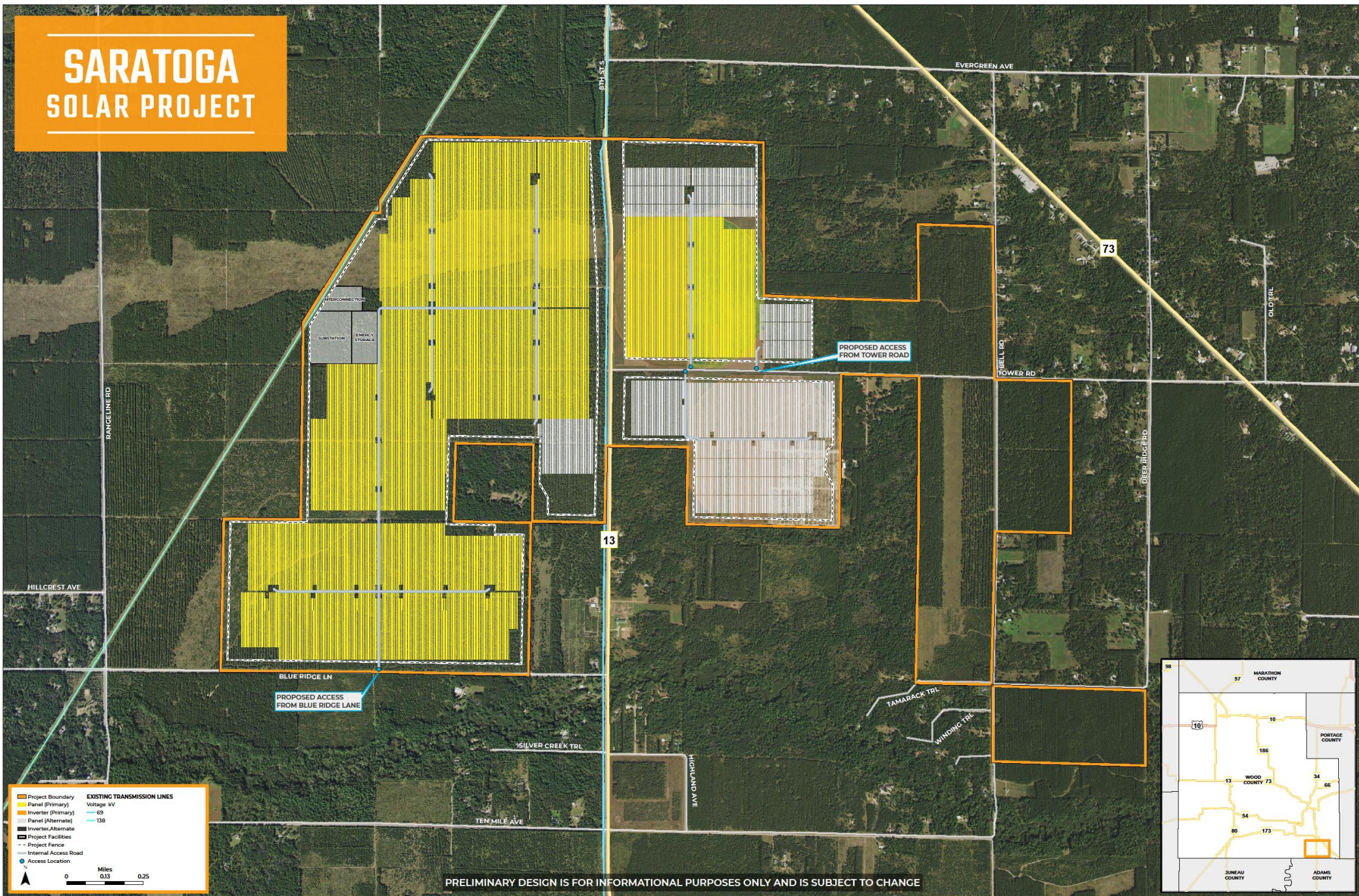


Why This Site?

- Proximity to recently upgraded 138 kV transmission line
- No significant environmental issues
- Best solar resource in all of Wisconsin is in Wood County
- 3rd party phone survey shows 64% of Wood Co residents support solar energy development

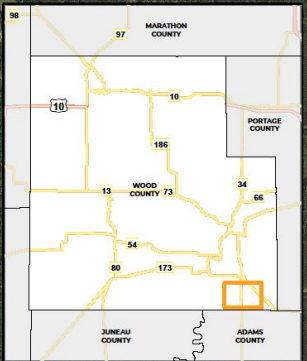


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EXISTING TRANSMISSION LINES	
	Panel (Primary)
	Panel (Alternate)
	Inverter (Alternate)
	Project Facilities
	Project Fence
	Internal Access Road
	Access Location

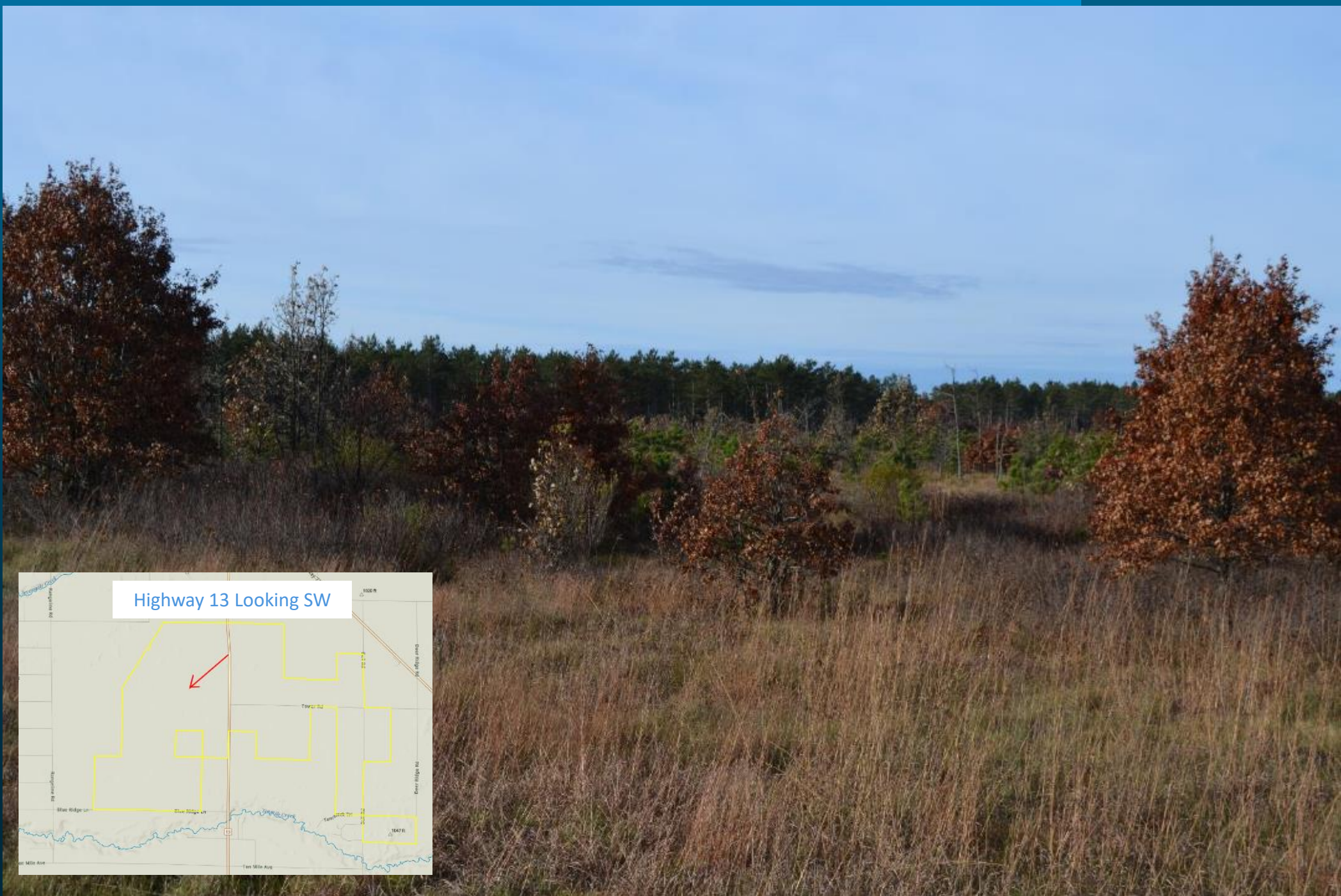
PRELIMINARY DESIGN IS FOR INFORMATIONAL PURPOSES ONLY AND IS SUBJECT TO CHANGE



Economic Impacts

- High Local Economic Impact – Utility Aid Payments for a 150 MW project
 - \$21 million total to County and Town over 35-year project life
 - \$350,000/year to County (expected)
 - \$250,000/year to Town (expected)
- Construction benefits
 - ~300 direct and indirect construction jobs through construction; local labor used as available
 - Increased revenue for local companies used directly for project needs such as landscapers and printers
 - Approximately 1 year of increased revenues to local business such as equipment rentals, hotels, restaurants, gas stations etc.
 - 2-5 permanent O&M jobs plus indirect services
- Has minimal cost impact on local infrastructure
- Project will be a “silent revenue generator” for Wood County (no noise or emissions)

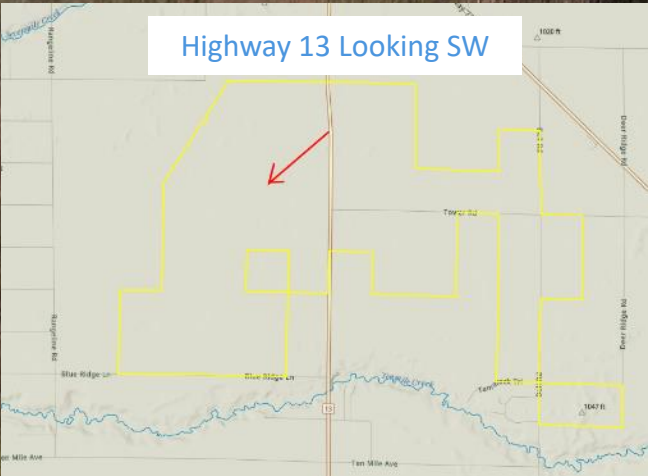
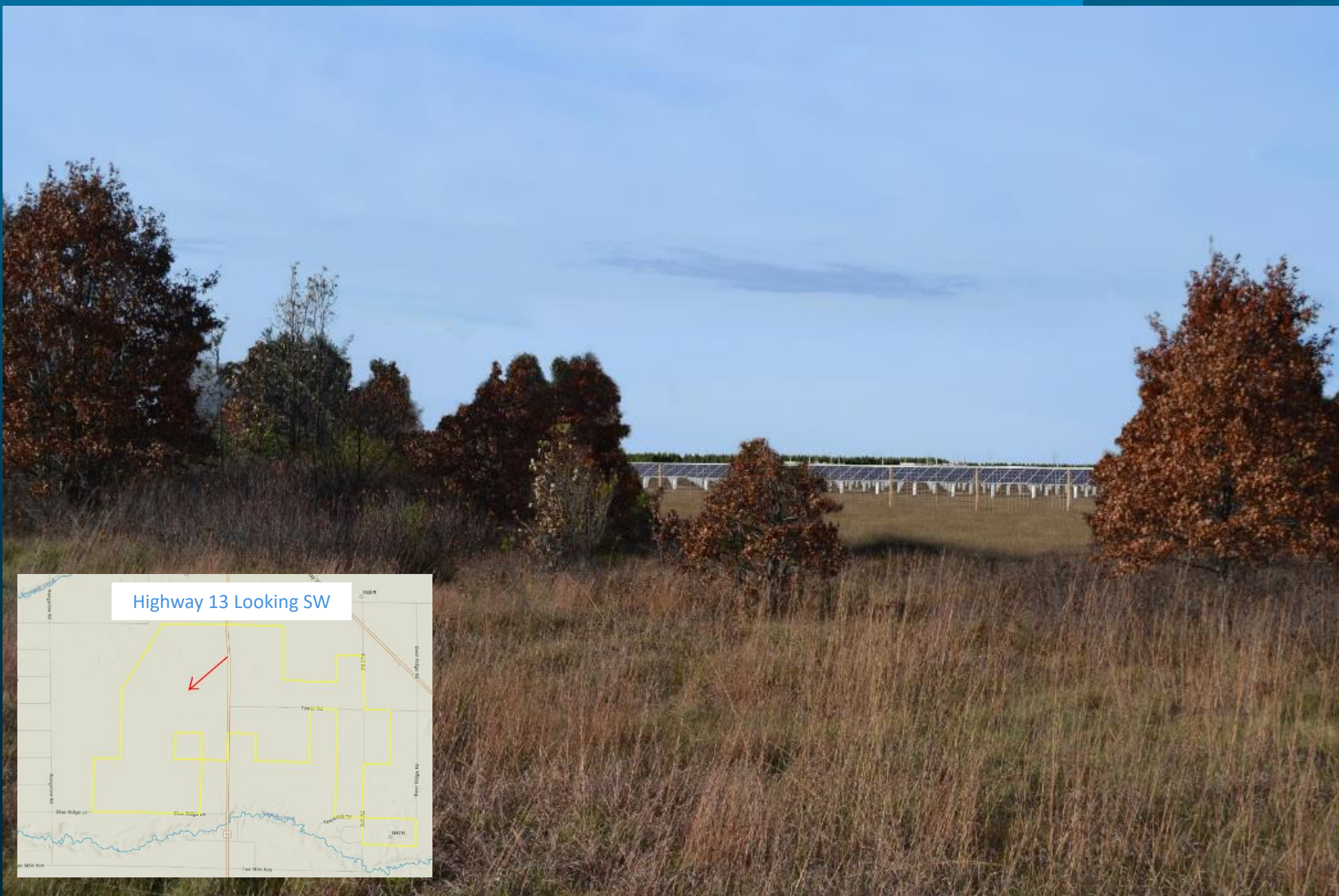




Highway 13 Looking SW



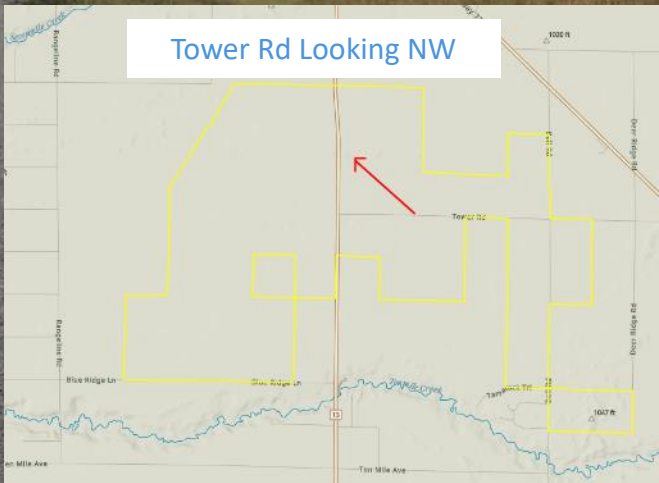
*Disclaimer: This image is for illustrative and visualization purposes only. Items in image may not be an exact or final representation of the project and foliage.



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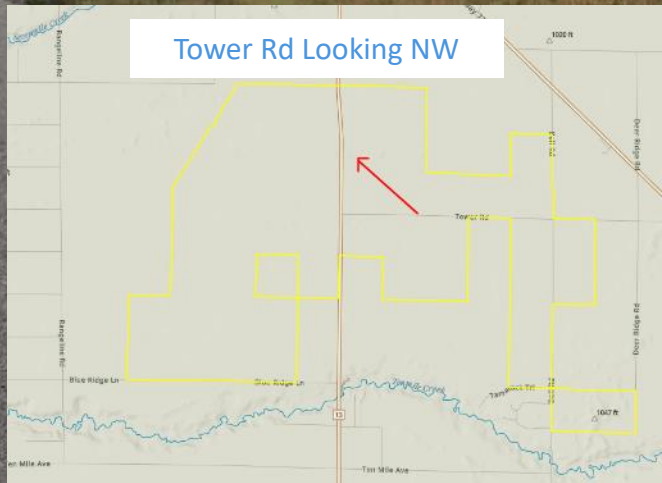
Tower Rd Looking NW



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Tower Rd Looking NW



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QUESTIONS?

THANK YOU

