



National Association of State Energy Officials

# Oneida Nation Energy

Mike Troge  
June 13, 2024



Energy Development Program



# ONEIDA

A good mind. A good heart. A strong fire.



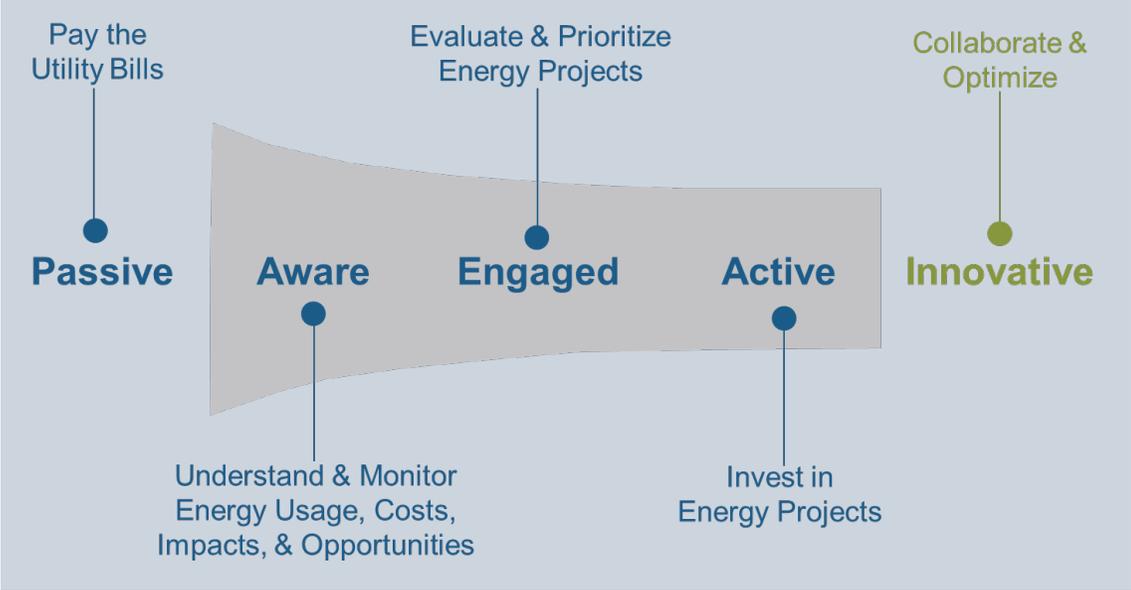
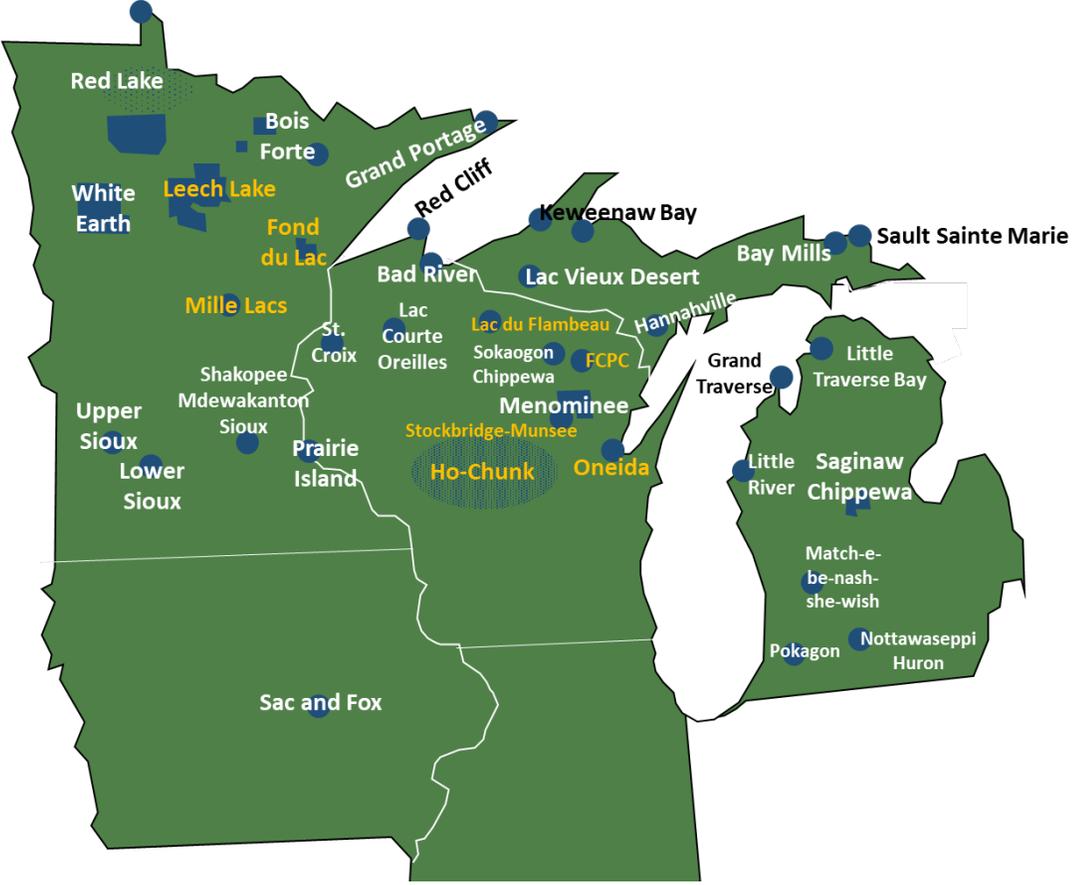
# MTERA

MIDWEST TRIBAL ENERGY RESOURCES ASSOCIATION



# Partners

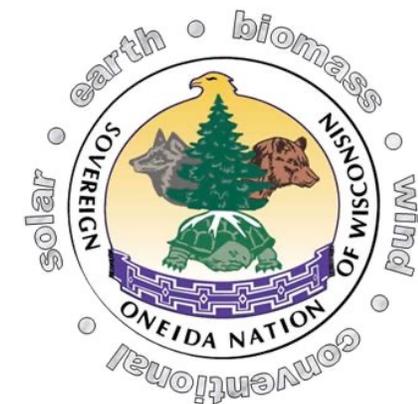
- Midwest Tribal Energy Resources Association
- Department of Energy
  - Office of Indian Energy
  - State and Community Energy Programs
  - National Renewable Energy Laboratory
  - Pacific Northwest National Laboratory
  - Sandia National Laboratory
- WI Public Service Commission
- WI Office of Energy Innovation
- WI Office of Sustainability and Clean Energy
- WI Economic Development Corporation
- WI Department of Transportation
- WI Clean Cities
- NWTC, CMN
- Midwest Renewable Energy Association
- Renew Wisconsin
  - 2024 Renew Wisconsin Energy Summit
  - February 1, 2024
  - <https://www.renewwisconsin.org/renewable-energy-summit/>



[www.mtera.org](http://www.mtera.org)

# Oneida Nation Energy

- 800 kilowatts installed on six Tribal facilities in 2017
- Tribal Electricians and HVAC Specialists making energy efficiency a priority
- Strategic Energy Planning to drive future energy investment
- R&D into net-zero energy, micro-grid technology, and battery storage opportunities
- Emergency Management, DPW, and Oneida Police Department getting re-fueling ready
- Critical facility resiliency
- Residential and Facility Energy
- Carbon inventory
- Learning from MTERA member-Tribes
- Adaptation + Mitigation + Energy Sovereignty = a Resilient Community



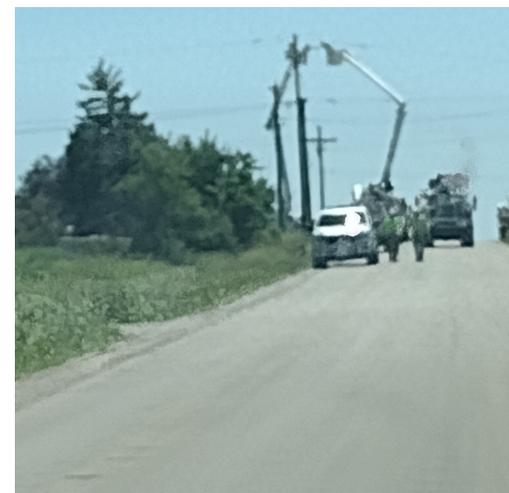


# weather or CLIMATE

TEAM COVERAGE  
**OUTAGAMIE COUNTY STORM DAMAGE**

4:00 84°  
abc 2

2 FIRST ALERT WEATHER WEATHER KEWAUNEE 84° NOW PARTLY CLOUDY/WIND 75° 7PM SUNNY 68° 10PM CLEAR



# What does energy sovereignty mean?

- Stabilize energy costs
- Have greater control of energy imports
- Monitor & manage usage
- Strive for self-generation
- Encourage local operation & maintenance
- Economic Diversification
- Be mindful of a responsible, clean, & sustainable energy future
- Build on our emergency preparedness
- Create partnerships to expand the vision
- Embrace our role as stewards (...7 generations...)

# Energy Team Projects

## Solar Project #1



## Energy Audits & Upgrades

- Improved lighting
- Decreased energy use



Turtle School Gym

## Energy Crop Study

- Locally grown energy crop for heat, fuel
- UWGB partner

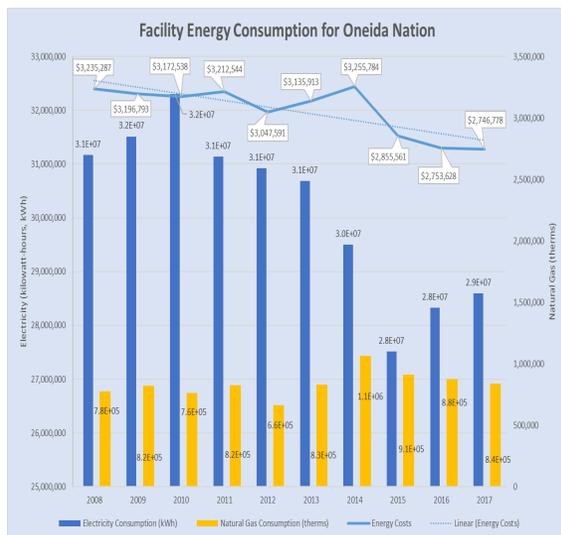


## Anna John Solar

- 48 collectors, 75% of hot H2O
- 75% grant funded

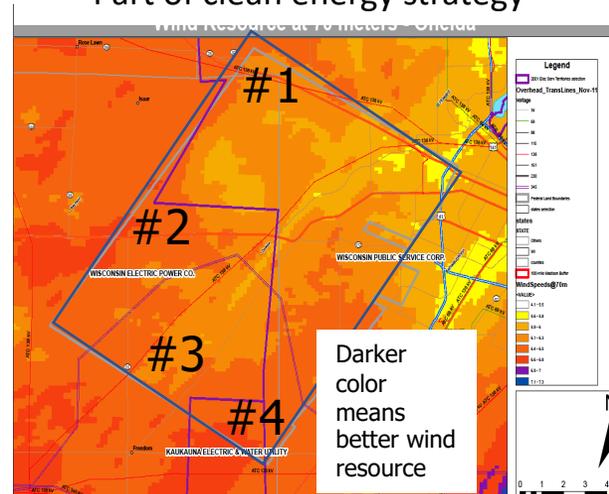


## Tracking Energy



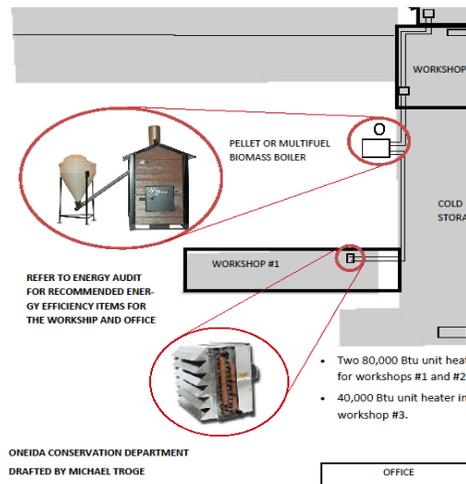
## Wind Power Study

- Wind best in the west
- Part of clean energy strategy



## Biomass Energy

100,000 Btu biomass boiler Demonstration



## Solar Deployment Project

- DOE grant + investor support
- 800 kw on 6 buildings

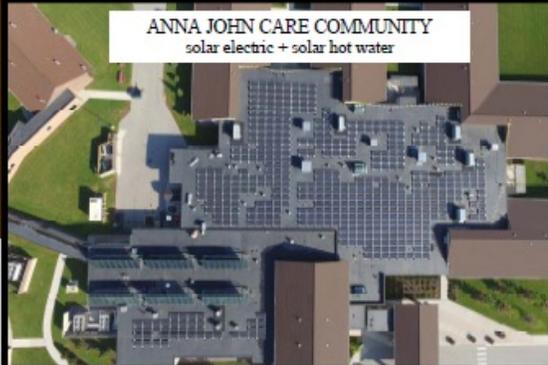


# CURRENT TASKS - Organization

- Energy Team charter
- **Sub-Teams**
  - Infrastructure, transportation/fleet, business, residential
- Communication
  - UW-Madison Clean Energy Community Initiative
  - Website design
  - Regional planning efforts
- **Project & Funding Research**
  - Inflation Reduction Act
  - Bipartisan Infrastructure Law
  - Economic Development Admin
  - Tax credits for non-profits, including Tribes
- Solar Deployment on Tribal Facilities
  - 800 kilowatts of solar on 6 facilities
  - Negotiating the sale of the solar developer's share in Oneida Nation Solar LLC
- **Ultimate Strategy: create a fixed O&M account with revenue generated from a mix of solar energy sales and self-governance funds with minimal Tribal contribution.**

ONEIDA NATION SOLAR DEPLOYMENT ON TRIBAL FACILITIES

Project Summary



ANNA JOHN CARE COMMUNITY  
solar electric + solar hot water

**ONEIDA NATION**  
Solared Buildings  
798 kilowatts over 6 facilities,  
Commissioned 2018,  
Utility-Interconnected,  
Supplements building energy,  
No batteries,  
Power purchase Agreement  
for 8 years.



FOOD DISTRIBUTION



ONEIDA ENERGY TEAM  
Energy Strategies for Our Community



ELDER SERVICE APARTMENTS



CTY H RECREATION



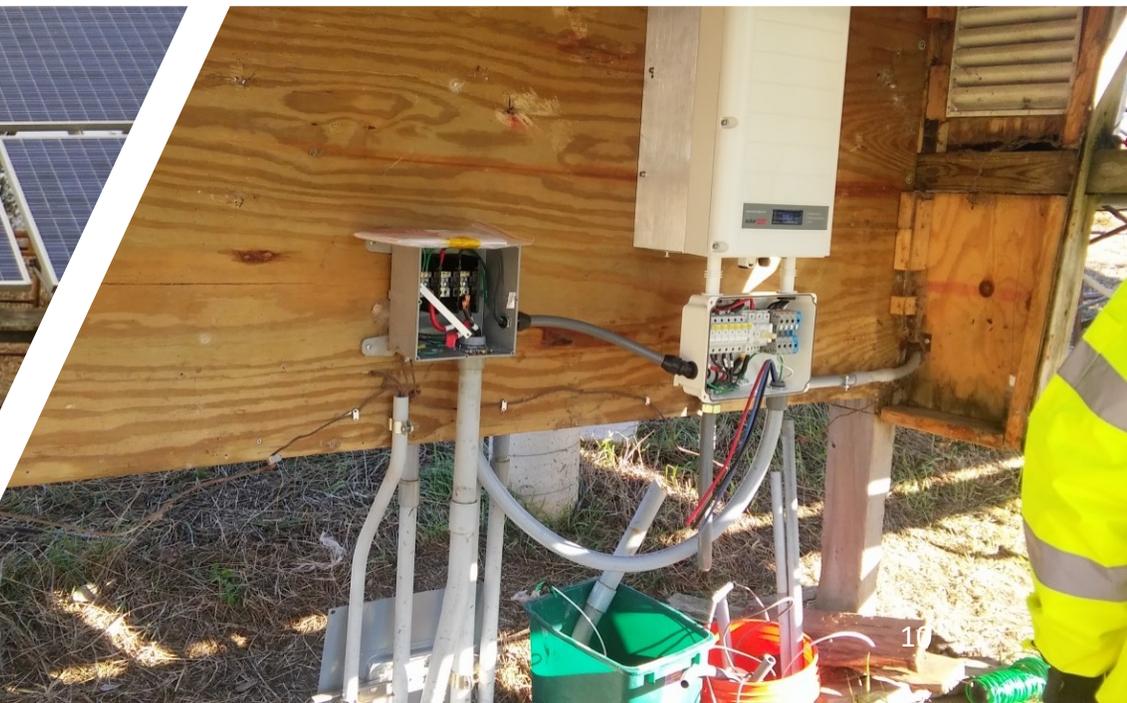
HEALTH CENTER



IMAC-ANNEX

**PHOTOVOLTAIC DEPLOYMENT ON TRIBAL FACILITIES project list**

1 = Irene Moore Activity Center / Annex	260 kilowatts
2 = Anna John Resident Centered Care Community	168 kilowatts
3 = Oneida Community Health Center	164 kilowatts
4 = Food Distribution Center	100 kilowatts
5 = Oneida Elder Service Apartments	68 kilowatts
6 = County Hwy H Recreation Center	38 kilowatts



# Developing Tasks

## Program Initiatives

- **Tribal Residential Energy Project**
  - Energy audits, weatherization, electrification, solar.
  - Multiple funding sources
- **Workforce Development**
  - Grid Deployment Office 40101
  - Develop interest for skilled labor jobs
- **Tribal Utility Authority + utility-scale solar feasibility**
  - Economic Development Admin funding

## Project Development

- **Fleet Electrification Action Plan**
  - WI Dept. of Transportation and Wisconsin Clean Cities
  - EDA funding
- **EPA Solar for All**
  - Midwest Tribal Energy Resources Association consortium
- **Solar training opportunities for community members, staff**



***“Wisconsin Focus on Energy empowers the people and businesses of Wisconsin to make smart energy decisions with enduring economic benefits.”***

**In 2022, FOE tailored incentives and training in the Tribal Residential Energy Program.**

**Building Performance Institute provided Home Energy Audit training for Tribal employees.**

**Planning to promote energy audits for Tribal Community members, prioritizing LMI residents.**

**Working with Leadership, FOE, SCEP, EPA, and other stakeholders to prolong the Tribal Residential Energy Program**



# CURRENT TASKS - Projects

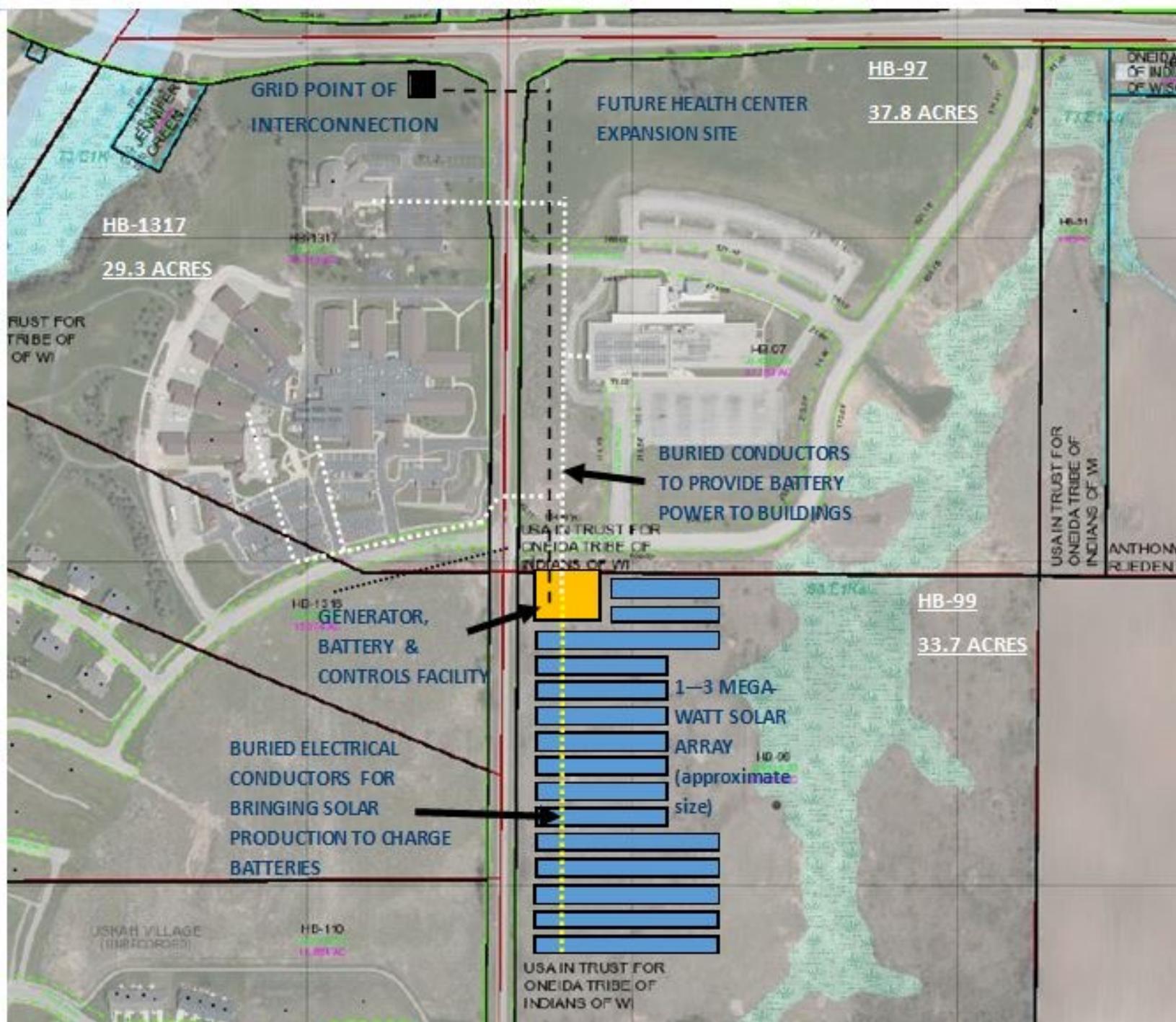
## HEALTH CAMPUS RESILIENCY PROJECT



- Health Campus Resiliency Project
  - Microgrid + Saferoom
  - Building Resilient Infrastructure & Communities grant has been tentatively awarded
  - Team working with FEMA to finalize BRIC award
- Carbon Emissions Analysis
  - EPA Carbon Pollution Reduction Program
  - Midwest Tribal Energy Resources Association consortium
  - MTERA rep on WI Office of Sustainability & Clean Energy Advisory Team
  - Priority Climate Action Plan



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Yaw^ko!

Mike Troge  
mtroge@oneidanation.org

