

# ISHKONIGE NAWADIDE

IT CATCHES FIRE



BAD RIVER TRIBAL SOLAR PROJECT  
BY: DANIEL WIGGINS



# BAD RIVER BAND OF LAKE SUPERIOR CHIPPEWA BAND

- Located on a 125,000+ acre reservation in Northern Wisconsin on the south shore of Lake Superior
- Territory ceded by the tribe to the U.S. government includes the upper one third of what is now the State of Wisconsin.
- Has over 7,000 members, the majority living off the reservation, about 2,000 live on/near the reservation.



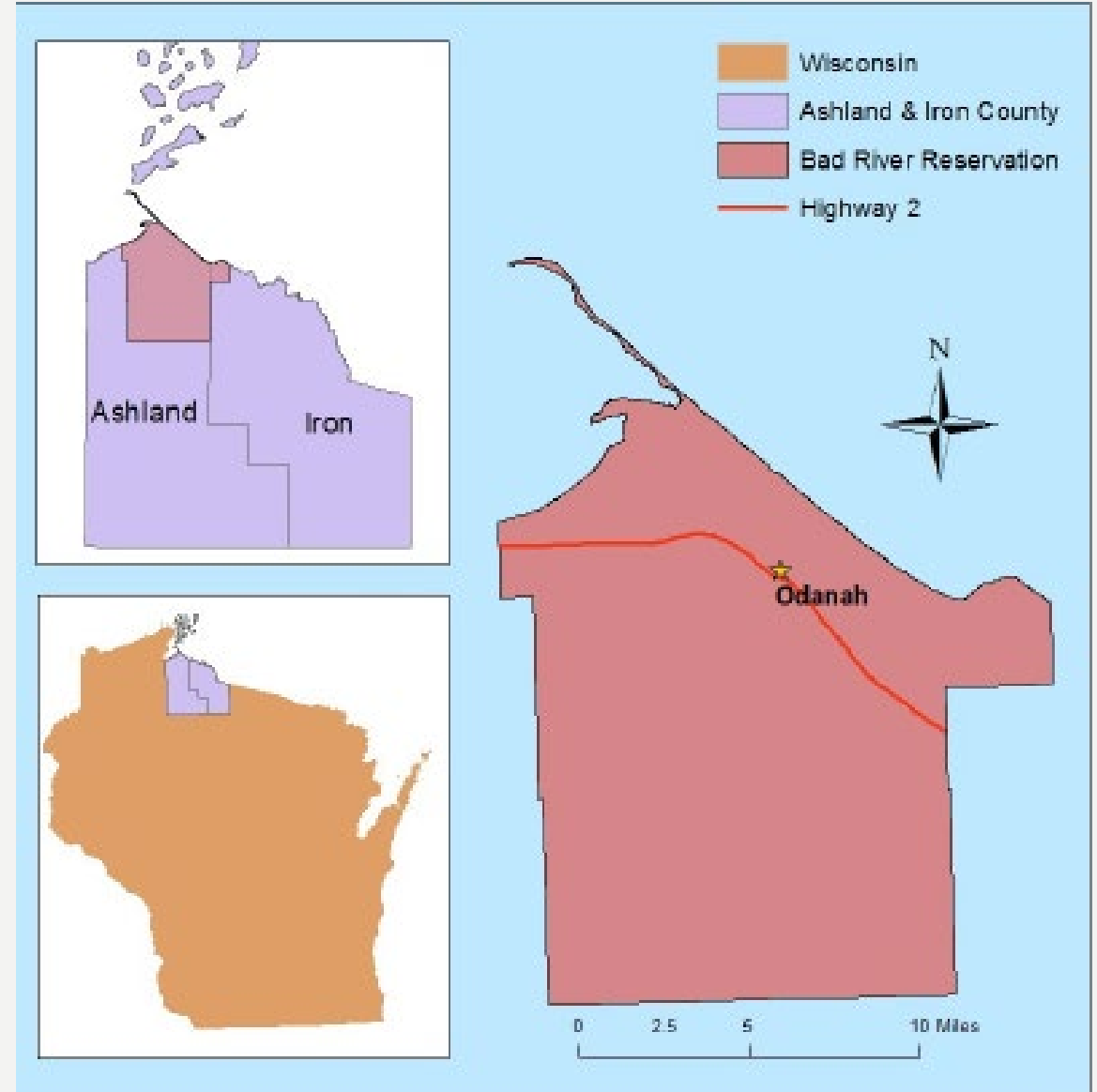
Chequamegon Point

*The Tribe's mission is to work towards a more progressive, financially stable government, to maintain tribal sovereignty, and enable members to progress individually, toward a more fulfilling life culturally, spiritually, and economically. Through this mission the Tribe has explored numerous avenues to assure resiliency and sovereignty into the next seven generations.*

# PROJECT OVERVIEW

Bad River was recently awarded a \$1,000,000 grant from the DOE for a solar-plus-storage project. The \$2,000,000 project will include 520kW DC of solar photovoltaic (PV) capacity at three essential tribal building with a Battery Energy Storage System (BESS) at each facility.

- 300kW plus a Battery Energy Storage System (BESS) at the Health Clinic,
- 200kW plus BESS at the Wastewater Treatment Plant
- 20kW plus BESS in a Ready-to-Install (RTI) installation at the Administration Building.



# PARTNERS

- Tribal Departments
  - Water & Sewer
  - Health & Wellness Center
  - Natural Resources and Administration
- Technical Personnel
  - Bill Bailey, CheqBay Renewables
  - Niels Wolter, Madison Solar Consulting
  - Travis and Amy Simpkins, muGRid Analytics
- Utilities
  - Bayfield Electric Coop
  - Dairyland Coop



# TRIBAL ENERGY GOALS

*“To empower and enable the community to move toward energy independence.”*

- Improve energy management system.
- Exercise Tribal energy sovereignty and promote economic development by building capacity to plan & execute energy projects, increase the resiliency of energy infrastructure.
- Reduce energy costs compared to current baseline by 10% by 2025.
- Generate 10% of the Tribe’s electricity with renewable energy technologies by 2025

Ishkonige Nawadide is only Phase I of the development of a Tribal Microgrid that will be able to operate independent from the GRID.



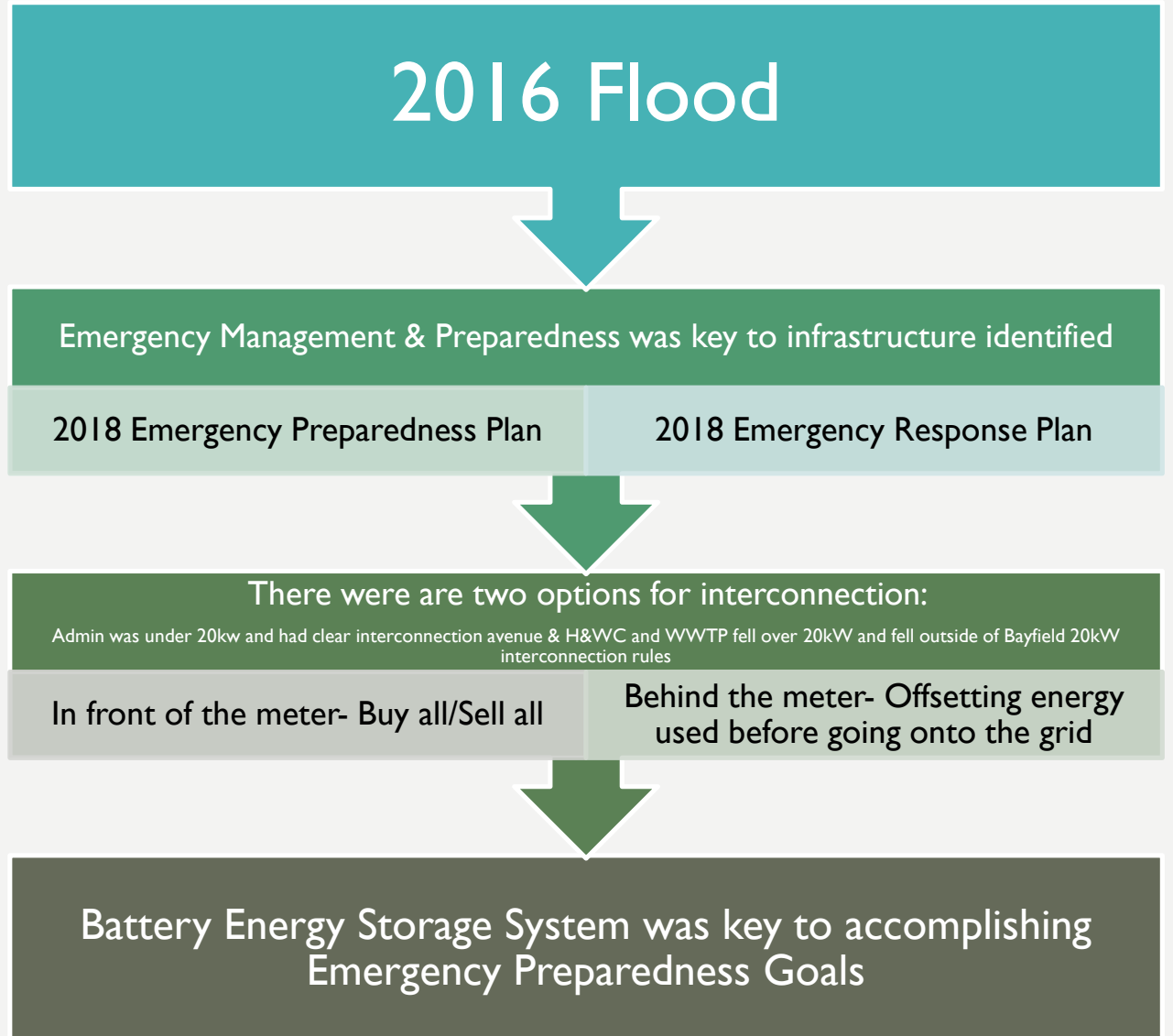
## Maple St.



## 2016 FLOODING

- Many roads/highways were severely damaged, including Hwy 2
- Cut-off communities from access to food, water and other supplies.
- Gas and electric were both limited during flooding and post-flooding events
- The event highlighted gaps in Emergency Response and Preparedness

# PROJECT START-UP



# PROJECT STATUS



## Site Prep

H&WC: 300 kW  
WWTP: 200 kW  
Admin: 20kW



## Environmental Reviews

Wetland Mitigation  
NEPA Requirements



## Interconnection Study(s)

Required for understanding of what can be added to the GRID



## Developing RFP for Investor and Contractor

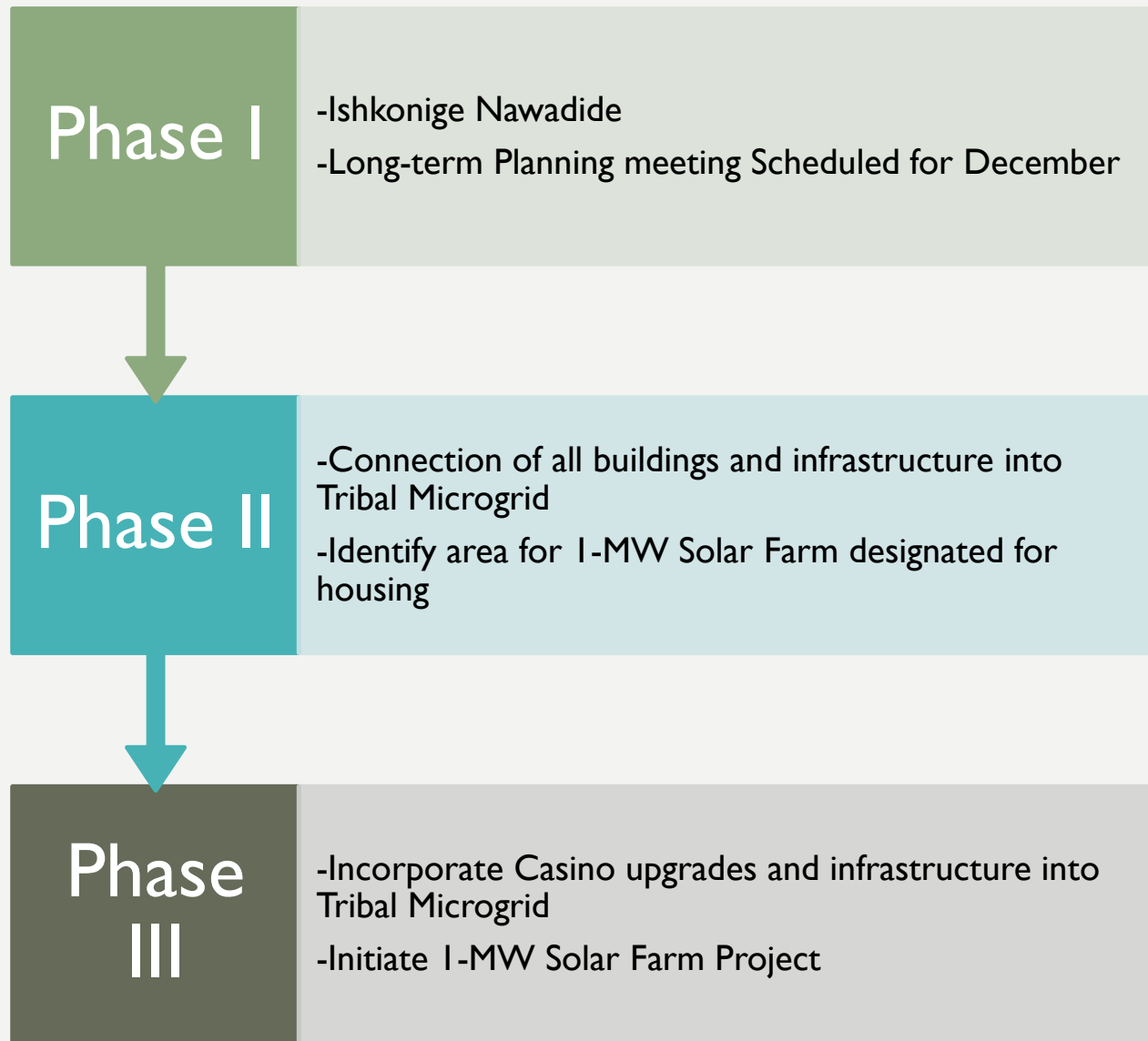
Will be out in January 2020



## Long-term Planning



# LONG-TERM PLANNING



# CONTACT INFORMATION

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