

Oneida Nation: Addressing the Need for Energy Efficiency in Tribal Communities

By Chairman Tehassi Tasi Hill



Oneida Nation



ENERGY EFFICIENCY
DPW ELECTRICIANS

**LIGHT UPGRAD-
ED AT TURTLE
SCHOOL GYMNA-
SIUM**



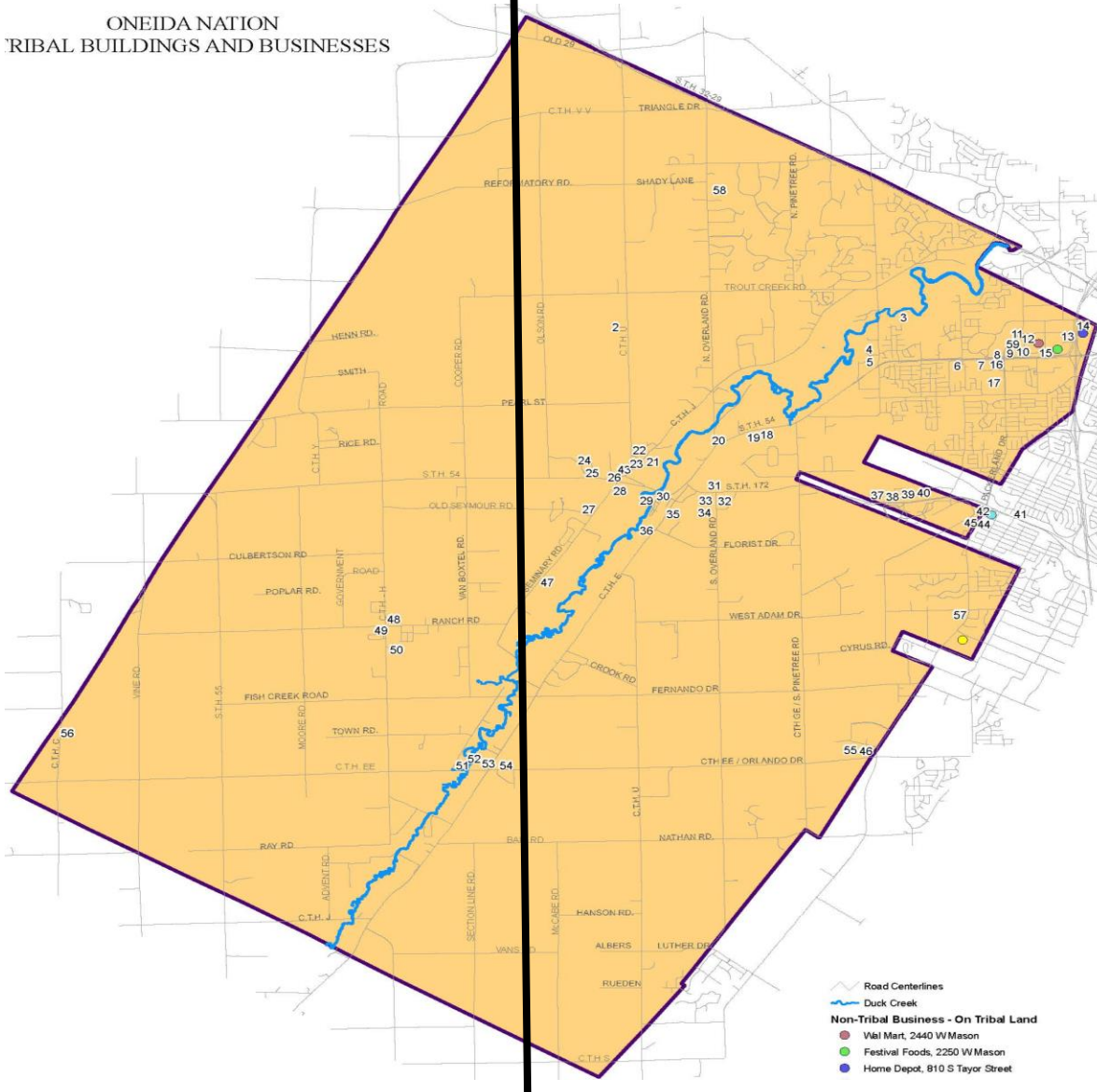
A good mind. A good heart. A strong fire.



WE Energies territory

WPS territory

ONEIDA NATION
TRIBAL BUILDINGS AND BUSINESSES



TRIBE AND
BUILDING
INFORMATION

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Steps in Strategic Energy Planning



Oneida Nation Energy Goals

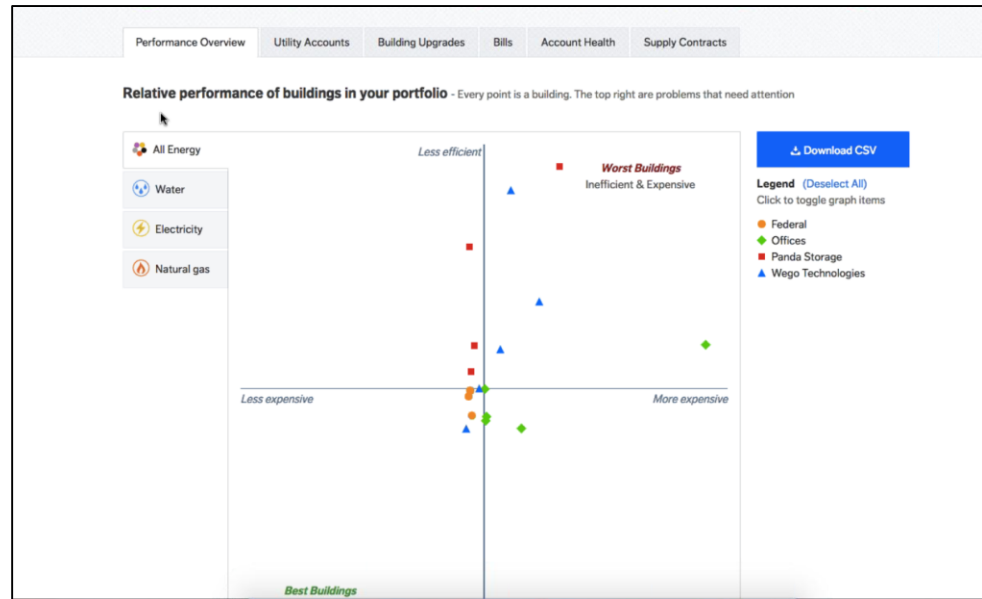
- Net-zero community by 2028
- Investigate net-zero campuses
- Set emission reduction goals
- Dedicate staff to the energy action plan
- 25 residential energy audits per year

Baseline Energy



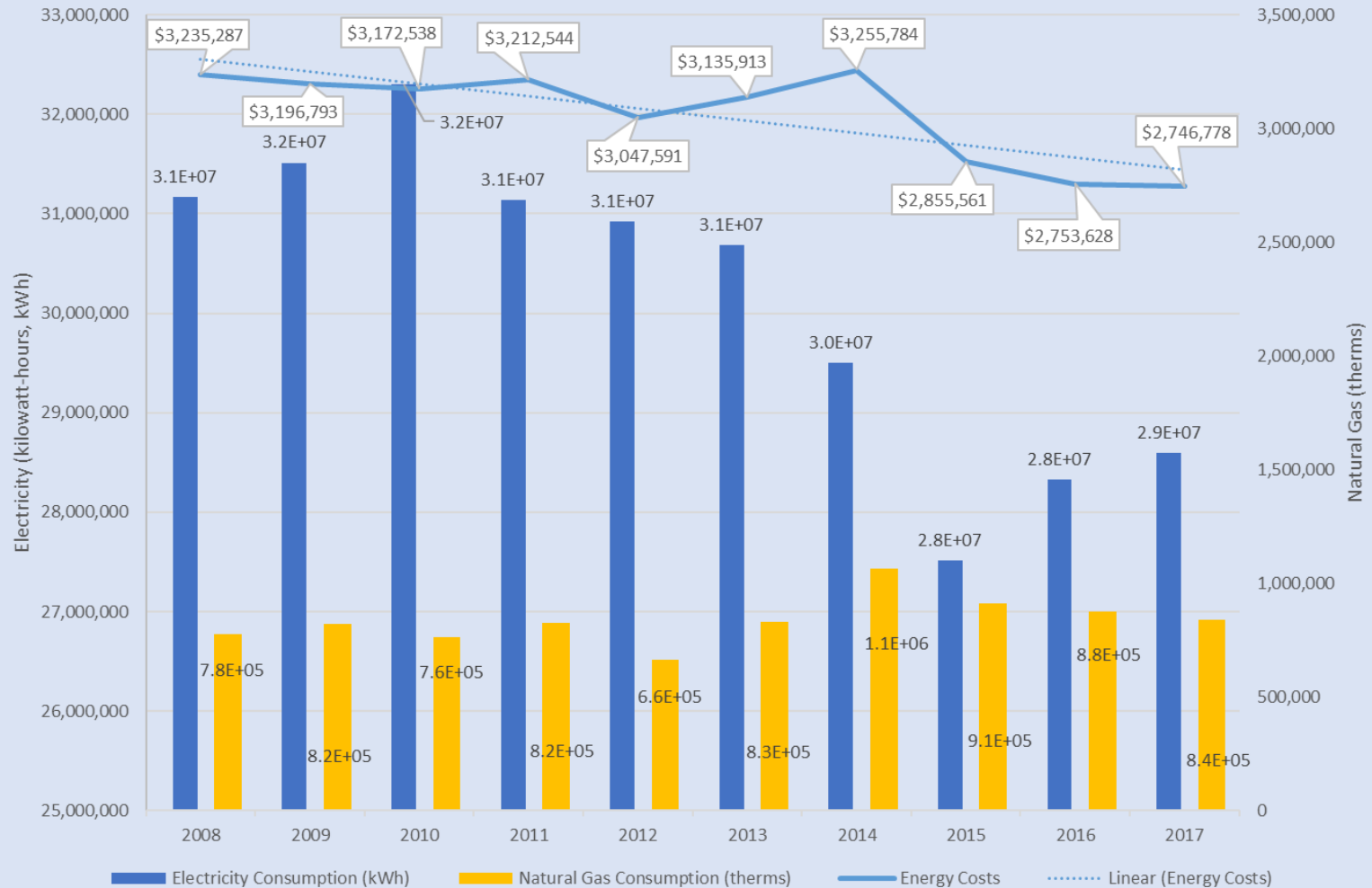
Energy baseline:

- We've been tracking facility energy since 2008
- Use available tools:
 - Energy audits
 - Project database
 - Modeling software
- Forecasting future load
 - New housing
 - New government facilities
 - New/expanded enterprises
- Utility website monitoring



WEGOWISE utility tracking with MTERA

Facility Energy Consumption for Oneida Nation



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Prioritize Projects and Programs

- Ranking projects based on cost-effectiveness
- Best practice models:
 - Life cycle analysis
 - Levelized cost of energy to compare technologies
 - ROI, IRR, NPV, simple payback
- Tribal energy policy/program examples:
 - Incentives to reduce energy use
 - Incentives to promote renewable energy
 - Assess building code for sustainable features



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Energy Strategy

- Monitor & manage energy usage
- Stabilize energy costs
- Strive for self-generation
- Have greater control of energy imports
- Encourage local operation & maintenance
- Build on our emergency preparedness
- Create partnerships to expand the vision

Energy Team Projects

Energy Audits & Upgrades

- Improved lighting
- Decreased energy use



Turtle School Gym

Energy Crop Study

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



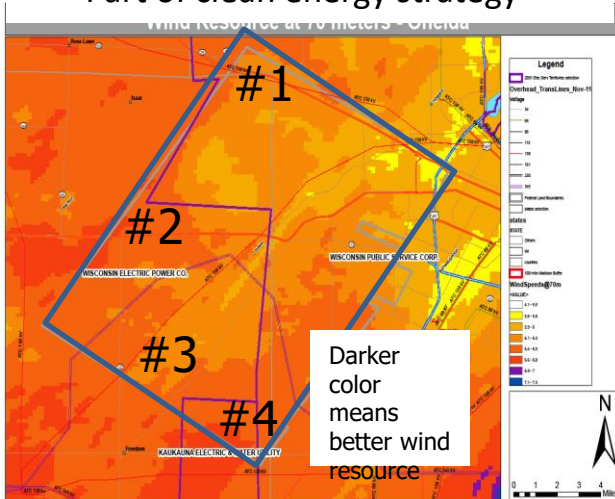
Anna John Solar

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



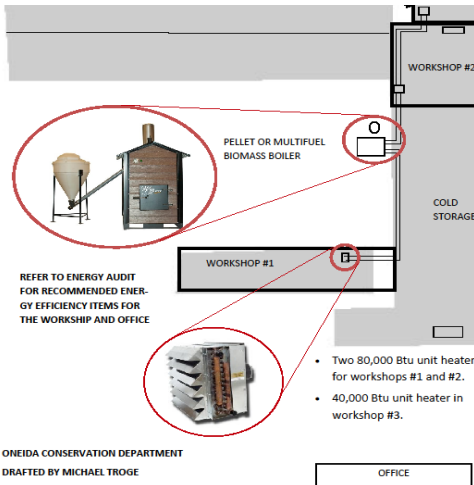
Wind Power Study

- 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



Challenges

- Funding
- Rapidly Changing Technology
- Facility Location(s)
- Utility Provider and State Policy
- Technical Expertise and Staffing

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