

FEDERATED INDIANS OF
GRATON
R A N C H E R I A

**Graton Economic Development Authority
Renewable Energy Efficiency Network Project
(G.R.E.E.N.)**

**2021 DOE/OIE Annual Program Review
Nov. 16, 2021**

*R.T. Browning – Technical Contact
Federated Indians of Graton Rancheria*

Tribal Background



- Coast Miwok & Southern Pomo peoples – North of SF, CA
- Tribal Restoration (Dec. 2000)
- Serving 1400+ tribal citizens
- Tribal Governance & Economic Development (GEDA)
- www.gratonrancheria.com



G.R.E.E.N. Project Overview



DOE 2017 Grant Award

- Install 1.5 Mw PV System (with project redesign estimated for 2.4 Mw)
- \$1,958,857 federal award
- \$1,608,906 Tribal match
- Project end date 9/30/2022



Project Location

Sonoma Co. California –
Tribal Reservation 250+ acres

Graton Economic Development
Authority – *Project Lead*

Regional Focus – Clean Energy

Project Supports Tribal Values:
***Social Justice &
Environmental Stewardship***



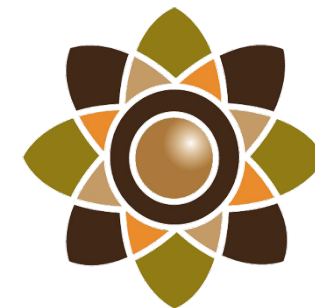


G.R.E.E.N. Project Outcomes

- **PROJECT GOALS**

- **GOAL 1** - Model Tribal Environmental Stewardship
- **GOAL 2** - Create a Sustainable, Renewable Energy Resource for the Tribe
- **GOAL 3** - Establish Tribal Energy Independence and Energy Choice
- **GOAL 4** - Provide Tribal Citizen Education in the Energy Sector
- **GOAL 5** - Encourage Information Sharing (*Intertribal, Multi-Agency and with Project Partners*)

G.R.E.E.N. Solar Project Specifics



- 2016 Tribal Renewable Energy Systems Analysis
- 140,000 sq. ft. rooftop atop Tribal Business Enterprise (Opened 2013)
- 2nd Tribal Alternate Energy Project
(2015) EV stations



Graton Solar Project Objectives



- **Project Design – 4 Tasks**
 - **Task 1** - Project Reporting
 - **Task 2** - RFP > Vendor Contract
 - **Task 3** - Installation and Performance Monitoring
 - **Task 4** – Community Education



Project Challenges (2018 - 2020)



- *Identified Issues*

Design & Installation Increased backup power supply issue identified (2018)

- Requested project extension from 2019 to 2022
- Added Generator capacity design & timeline developed (2019)
- Additional backup power costs approved by Tribal Council
- Rebid project increased power generation output (from 1.5 – 1.75Mw)
- Task 3 vendor selected with COVID 19 safeguards (2020)
- Change in technical consultants (2021)

Project Updates 2021



Remedies in Process

Task 3 (Jan. 2021)

Reduced cost share
federal funding to 45.10%

Power module delivery
delay due to world-wide
COVID 19 impacts

Additional backup power
system installed

Interconnection

Agreement in Place

Substantial completion by
Dec. 2021



Rooftop Project Site Access



Project Elements Installed



Project Components on Site



Project Support Components



Equipment Pad



XFMR



Project Partners & Outreach

- **Coordination & Outreach**

- Graton Economic Development Authority (GEDA)
- Graton Resort & Casino

- **Project Consultants/Vendors**

- Kenwood Energy
- Borrego Solar Systems

- **Community Education Task 4**

- *Begins Spring 2022*



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Follow Up - Questions

- *Project Contacts*

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