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R A N C H E R I A

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

**DOE OIE Annual Program Review - *Nov. 15, 2022***

***Tim Campbell, Grants Administrator***

# Tribal Background

- Coast Miwok & Southern Pomo peoples – North of SF, CA
- Tribal Restoration (Dec. 2000)
- Serving 1,400+ tribal citizens
- Tribal Governance & Economic Development (GEDA)
- [www.gratonrancheria.com](http://www.gratonrancheria.com)



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

## DOE 2017 Grant Award

- Install 1.5 Mw PV System (with project redesign up to 2.4 Mw)
- \$1,957,000 federal award
- \$1,608,906 million Tribal Match
- Project extended to 4/30/2023



# 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



- **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



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- 2016 Tribal Renewable Energy Systems Analysis
- 140,000 sq. ft. rooftop available for project
- 2<sup>nd</sup> Tribal Alternate Energy Project  
(2015) EV stations





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# Graton Solar Project Objectives

- **Project Design (5 Tasks)**

**Task 1** - Project Reporting

**Task 2** - Vendor Selection

**Task 3** - Solar PV Installed  
(May 2022)

**Task 4** - Performance  
Monitoring in process

**Task 5** - Community  
Education (Winter 2022 early  
2023)



# Project Challenges



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- *Identified Issues*

- **Design & Installation (2018 - 2021)**

- Increased backup power supply issue identified (2018)
    - First project extension approved to 9/30/2022
    - Added Generator capacity design & timeline developed (2019)
    - Additional backup power costs approved by Tribal Council
    - Rebid project install power generation output to 1.7Mw
    - Task 3 vendor selected with COVID 19 safeguards (2020)
    - Change in technical consultants (2021)



# Project Updates 2022



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## Task 3 - Project Installed

Commissioned 5/1/2022  
DOE Media Story (7/22)

## Task 4 - System Monitoring

- O&M Protocols in place
- 12-month system production reporting
- Supply chain issues for replacement parts





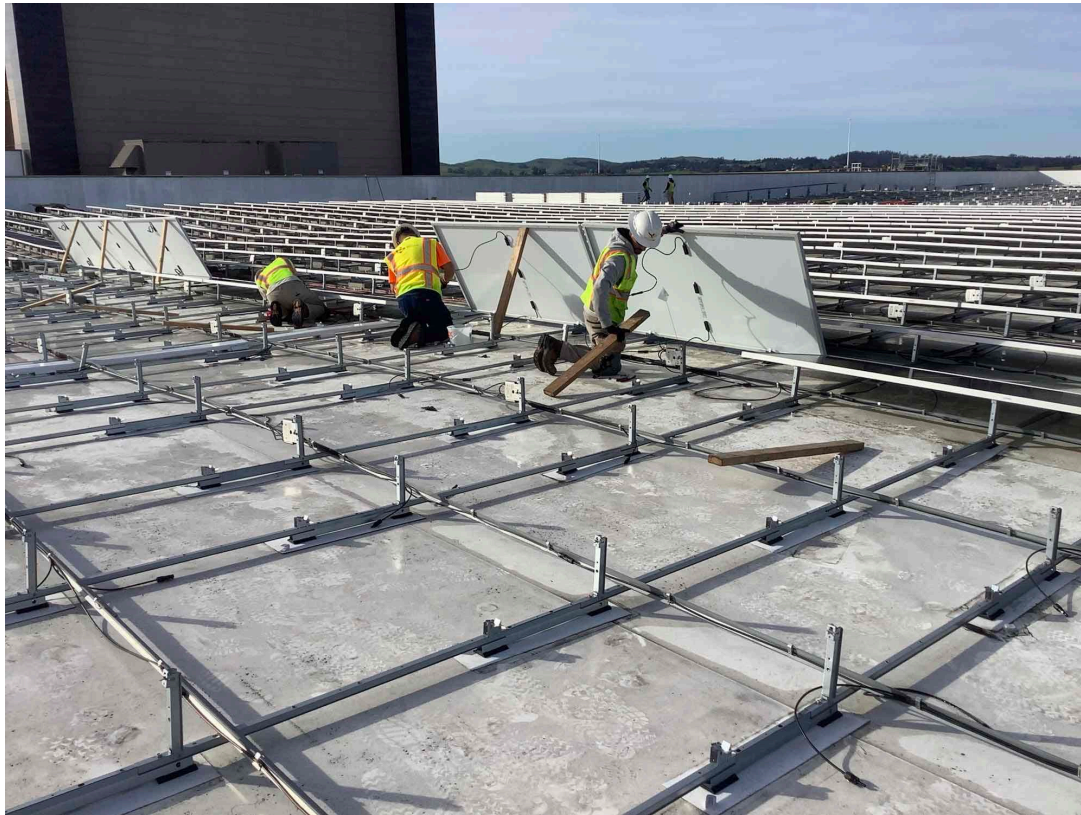
# Project Cost Savings & Lessons Learned

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- **(2016) Estimated cost savings 15% with increased solar production during peak hours**
- **(2022) Local Utility rates increased 25%, (having solar power in place has helped absorb these increased rate costs)**
- **Every kWh generated by hour is consumed by the tribal enterprise**
- **Tribe analyzing future energy projects**
- **Future utility rate approvals (CA-CPUC) may impact the new projects on tribal lands**

# 2022 GREEN Project Updates

## Solar Installation – Early 2022



# 2022 GREEN Project Updates



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## Panel Installation – Task 3



# Project Partners

- **Coordination & Outreach**

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

- **Project Consultants/Vendors**

- Kenwood Energy
- Borrego Solar Systems



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RESORT & CASINO™

# Follow Up - Questions

- *Project Contacts*

**RT Browning, Technical Contact**

(559) 593-0096

[Rtbrowning@outlook.com](mailto:Rtbrowning@outlook.com)

**Tim Campbell, Business Contact**

(707) 566-2288

[tcampbell@gratonrancheria.com](mailto:tcampbell@gratonrancheria.com)

6400 Redwood Drive, Suite 300

Rohnert Park, CA 94928

[www.gratonrancheria.com](http://www.gratonrancheria.com)



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