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What do Tribes and Communities Need to Activate Local Energy Action?



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Company Description

OurEnergy is an engineering, advisory and project development company headquartered in Santa Cruz, California.

Our focus is on renewable energy, water, green building and integrated civil infrastructure.

We are a collaborative team of professionals who work with select clients to implement sustainable systems from concept to completion.

We serve clients globally, with staff, offices and collaborators in several international markets and throughout the US.



Activating Local Action & Engagement

1. How to activate local action and engagement related to community energy initiatives, equity, access.

- Gov't and Utility programs vs Grassroots and direct action

1. How can/do we as a company participate at the policy level, and on the local community and project implementation level?

- Support (as an Advisor) to Local Governments and Policy - OurEnergy has a history of representing and supporting public agencies and private companies in setting and attaining energy related ESG and policy goals. We provide expert support to crafting forward-thinking projects and programs including:
 - Owner's Engineer and PM/CM
 - Ordinances, codes/standards, processes, incentives, energy programs
 - Capacity building & technical assistance, leading by example
 - Providing a conduit between industry and government
- Implementing (as a developer) actual community energy projects:
 - Muni/Public and Public/Private Projects
 - Community Organization (nonprofit; energy access; human resilience)
 - Tribal and other self-governance / energy independence projects



Community Energy Models

Why are community energy projects unique?

- Local {
- Engagement
 - Access
 - Economic multiplier effect

Community Facilities Projects - Local

- Provide essential resilience and access to critical local services

Community Solar Projects - Local

- A powerful model to bring ownership participation and access to renewables to those who do not own their homes/real estate
- CA Legislation pending - AB 2316

Municipal or Publicly Owned Utility (POU) - Local

- Purpose built and operated to serve the local City/Community
- Broad powers to provide essential services and utilities programs
- Not regulated by the CPUC – governed by a local board of elected officials

Community Choice Aggregation (CCA) – Regional

- A powerful model to decarbonize bulk energy supply at the regional (and municipal) level
- A cooperative platform for regional governmental bodies to redirect revenues, make collective decisions and invest in programs
- ~45%+ of PG&E's load has been absorbed by CCAs to date

IOUs – Regional

- rolling out programs on direction from CPUC – PG&E's pilot CMEP; Solar Choice



Appendix / Spare Slides

Advanced Community Microgrid Gonzales, CA

City of Gonzales Agricultural Industrial Microgrid

→ OurEnergy - Developer Partner

→ A new Muni/POU with private and interagency / utility partnerships

Phase 1 overview:

- Solar PV ~15MW
- Energy Storage ~10MW/40MWh
- Firm Gas-fired Generation ~20MW
- New Smart Distribution/Subtransmission Infra
- Coordinated/Co-located with WWTP expansion

Gonzales' largest capital project, and a unique development model:

- \$70M investment
- 85% funded by private developer, Bodega Microgrid (~\$60 million)
- 15% funded by GEA/GMEU (~\$10 million)
- Underwritten solely by project revenues
- Relatively small number of initial customers (large commercial)
- Interagency and utility cooperation with PG&E, 3CE for increased local service capacity

Planned future phases:

- LFG/Biogas Partnerships → 0 Carbon
- Coordinated Growth
- Advanced Interagency, Utility and Private-sector Partnerships
- Net Exporter



Source: GEA

Community Microgrid San Pasqual Band of Mission Indians, CA

San Pasqual Band of Mission Indians: Community Microgrid

- OurEnergy - Developer Partner
- Tribal Government owned, with interagency / utility cooperation

Overview:

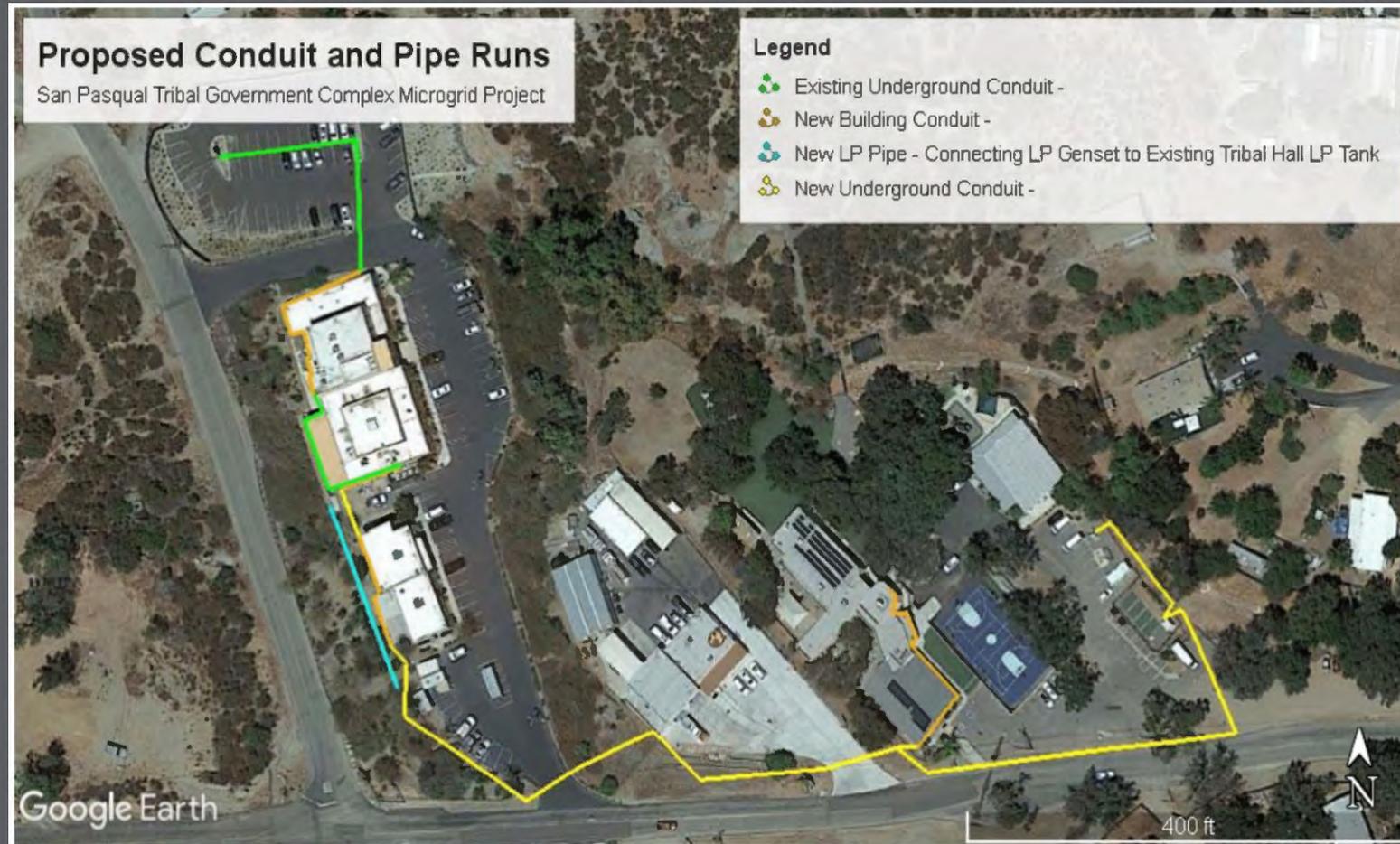
- Solar PV ~200kW
- Energy Storage ~400kWh
- Firm Gas-fired Generation ~150kW
- EV Charging
- New Smart Infra - BTM

Serves:

- Tribal Admin + Community Center
- Police
- Fire
- WWTP
- Daycare + Preschool

The project was submitted and awarded a \$2M grant from the DOE Office of Indian Energy. It is estimated that the Tribe will save \$1.7 million in electricity costs over the next 25 years and gain the value of a resilient and reliable electric service.

The project used a unique 'Island Before Interconnect' process of commissioning and startup.



Source: SPBMI

Electrical Infrastructure, Renewable Hybrid Power Systems & Microgrid

Housing Matters | Santa Cruz, CA 2021 - ongoing

- Owner's Engineer and Program Management services managing the electrical and dry utilities infrastructure modernization program for a homeless and transitional housing and services organization.
- Housing Matters is the largest single provider of homeless support services in the Santa Cruz area.
- The campus currently has no backup power and experiences significant disruptions to its operations, safety and security during grid outages.
- The campus is also undergoing a significant expansion including several more adjoining parcels and buildings, including renovations and new construction.
- The energy program will reconfigure, integrate and modernize the energy systems across the campus, adding additional solar PV capacity, battery energy storage, standby power generation and advanced controls.
- The new energy systems will work to reduce energy costs during normal operations and provide islanding and energy resiliency and continuity during grid disruptions.





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Renewable Energy & Sustainable Development: From Concept to Completion

Dustin Jolley, PE, LEED AP

Mr. Jolley has over 20 years of experience as a Civil/Environmental Engineer and has dedicated his career to the advancement of renewable energy and sustainable development. He has held positions in academic R&D, Public Service, and the Private sector.

- Experienced engineer
- Business developer
- Strategist
- Project/Program Manager

Mr. Jolley is accomplished in organizations from start-ups to large corporations and has held leading technical and managerial roles implementing over a gigawatt of renewable power generation. This work has employed technologies including solar PV & thermal, biomass, wind, hydro, fuel cells, storage technologies and hybrids. He has overseen all aspects of project development from concept to commissioning and asset management.

Affiliations & Certifications:

- Solar Electric Power Association (SEPA)
- American Society of Civil Engineers (ASCE)
- Engineers Without Borders (EWB)
- Certified Project Manager
- LEED® AP (GBCI LEED® BD&C)
- Certified Energy Auditor (CEA)
- Confined Space Entry and Rescue
- Red Cross NIMS
- HAZMAT First Responder



More on Gonzales Microgrid

Municipal Microgrid

City of Gonzales | Gonzales, CA 2017 - ongoing

- Developer Partner, Program Advisor
- Provided detailed feasibility analysis including preliminary design, technical and economic modeling, and structuring options for a municipal microgrid to serve the City and private participants located in the City's industrial park consisting of large commercial/agricultural customers.
- The Phase 1 microgrid assets include ~15MW of solar PV, energy storage systems, up to 6MW of wind power, up to 30MW of combined heat and power (CHP), Landfill gas (LFG), agricultural industry biomass digestion for biogas production, and all of the balance of infrastructure required to design, build, own, operate and maintain the microgrid.
- The project included formation of a municipal electric utility including custom microgrid tariffs and service rules, public financing options, private investment and services, partnering with PG&E, 3CE, and various other stakeholders and partners.



Timeline Overview

2017 – Project Initiation

2018-2019 Feasibility Study Completion & Approval

August 2018 – City forms GEA and GMEU

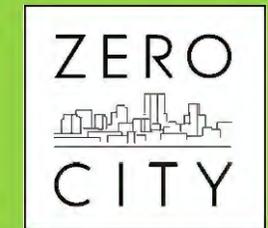
Q3 2019 – RFI sent to prospective partners

Q4 2019 – MOU with Concentric Power

2020 – Energy Services Agreement (“ESA”) negotiations/execution + detailed project definition

2021 – Customer onboarding, design, permitting

2022 – Commercial Operation



DAY ■ CARTER ■ MURPHY LLP



Project Benefits

- Local, clean, low-cost electric power
- Support for expanded tax base and new jobs
- Reliable electric power 24/7, 365 days a year
- Local Control + No PG&E “Public Safety Power Shutoffs”
- Value Add to macro-grid
- Value Add to Business Community
- Fast hook-ups w/ no wait for PG&E grid improvements
- Funding for future infrastructure improvements
- Reinvestment in the Gonzales community

