



Washington State 2025  
**SOLAR SUMMIT**

Advancing Solar in a Time of Uncertainty

October 24, 2025 | South Seattle Community College



# *Session 1*

# Powering Sovereignty: Tribal Energy Case Studies

**Moderator: Charlee Thompson, Solar Washington**

**Featuring: Angel Cortez, Tulalip Tribes;**

**Dayne Goodheart, GRID Alternatives;**

**Michiel Zuidweg, MZ Solar Consulting**



#### Current Projects Completed or Under Construction:

- SITC Apartments and Cottages:  
21 units + 12 single family homes  
7.3kW PV + 27kWhs BESS (2 Tesla Powerwalls)  
Renters benefit from resiliency and savings  
SITC participated in the PSE Flex Battery Program
- Youth Center: 50kW PV + 125kW/660 kWhs + Gen + EVSEs
- Police Station/Social Services: 50kW PV + 125kW/660 kWhs + Gen + EVSEs
- Senior Center: 50kW PV + 125kW/660 kWhs + EVSEs
- Administrative Building: 50kW PV + 96kW/312 kWhs + Gen
- Fisheries Office: 30kW PV + 48kW/86 kWhs + EVSEs

#### Projects in Engineering:

- Medical Clinic/IT: 50kW PV + 125kW/880 kWhs + Gen

#### Future Projects:

- Applying for PSE and Department of Commerce Grant Funding



Tribal Communities MZSC has worked with from technical consulting to Owner's Rep Services:

1. Tulalip Tribe
2. Swinomish Indian Tribal Community
3. Lummi Nation
4. Northwest Indian College
5. Spokane Indian Housing Authority
6. Suquamish
7. Tanana Chiefs Conference - Alaska
8. Jamestown S'Klallam Tribe
9. Quinault Indian Nation
10. Quileute Tribe
11. Sauk-Suiattle Indian Tribe

Owner's Representative Services: Swinomish Indian Tribal Community

Feasibility Studies:

- Stakeholder meetings, determine project goals and performance requirements
- Feasibility analysis, data collection, energy analysis, preliminary design
- Community engagement, identify construction hurdles, financial model
- Determine system architecture and system dispatch

Grant Support:

- Provide grant deliverables, ROM pricing, contractor proposal, grant language
- Resume, credentials, project schedule, project data, scope of work
- Community support and engagement

Owner's Representative and Engineering Services:

- Finalize design and equipment locations
- Lead electrical, structural and civil engineering team
- Develop 90% set and bid specs
- Take project out to bid, host bid walk, answer questions, contractor selection
- Complete engineered drawings to IFC set

Management:

- Submittal review of products, relay settings, SoO, dispatch
- Contractor meetings, management, schedule, procurement monitoring
- AHJ and Utility approval
- QA/QC checks, dispatch approval, site safety, CO's, RFIs
- Construction management, ensure successful completion

Commissioning and Close Out

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Apartments and Cottages:  
21 units + 12 single family homes  
7.3kW PV + 27kWhs BESS (2 Tesla Powerwalls)  
15 Units with SPAN Smart Panels  
Renters benefit from resiliency and savings  
SITC participated in the PSE Flex Battery Program



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## STAC:

50kW PV + 96kW/312kWh BESS

Kronus BESS Container with Oztek Inverters

SolarEdge PV Inverters

AC coupled system

Use existing generator for extended resiliency

## Goals:

Reduce Electrical Consumption = Savings

Peak Demand Shaving = Savings

Reduce GHG emissions - Utility and Gen Set

Provide Resiliency

Administrative Building functionality during an event



# MZ Solar Consulting

3 Projects:

Police Station/Social Services - Sulis Energy  
Senior Center/Dental Clinic - Sulis Energy  
Youth Center - Forecast Energy

Each Project:

50kW PV + 125kW/660kWh BESS

ELM MG125 Container

SolarEdge PV Inverters

AC coupled system

Use existing generator for extended resiliency

Goals:

Reduce Electrical Consumption = Savings

Peak Demand Shaving = Savings

Reduce GHG emissions - Utility and Gen Set

Provide Resiliency



# MZ Solar Consulting

Fisheries:

30kW PV + 48kW/86kWh BESS

EG4 GridBOSS and FlexBOSS

DC coupled system

Dual Port EVSE

Goals:

Reduce Electrical Consumption = Savings

Reduce GHG emissions - Utility

Provide Resiliency

EVSE on load shed breakers





Future Projects:

Medical Clinic/IT Building

50kW PV + 125/880kWhs BESS + Gen Set

Waiting for grant approvals for recent submissions

SITC wide strategic energy plan - ETIPP with NREL, Spark NW and NREL

Workforce Development and CTE programs



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