



Sixty Mountain, PLLC

ELECTRICAL CONSULTING SERVICES

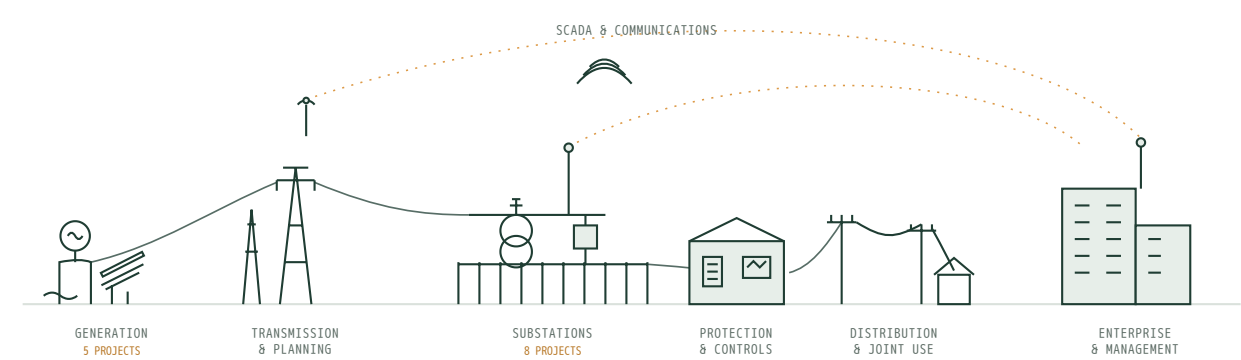
Statement of *Qualifications*

Power system engineering and utility software for Northwest public utility districts, cooperatives, and municipals. Experience and knowledge at every layer of the utility system.



Every layer of the utility system

Sixty Mountain is a Kennewick, Washington consultancy serving Northwest utilities since 2023. The practice stands on two legs: classic power engineering, protection and controls, SCADA, substations, studies, and commissioning, and utility software and data, NISC and GIS implementations, asset management systems, and working web tools designed and built in house. Most failures happen where disciplines meet. That is exactly where we work.



9 UTILITIES SERVED THIS YEAR	6 PARTNER SPECIALISTS	2 LIVE SOFTWARE PRODUCTS	\$10M+ CONSTRUCTION UNDER MANAGEMENT
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Seven disciplines, one accountable engagement

50/51 · 87 · 21

Protection & Controls

Relay settings, coordination, and scheme logic across transmission, distribution, and industrial systems. Deep SEL platform experience, feeder packages through transfer schemes.

TCC · ARC FLASH

Power Studies

Load flow, short circuit, coordination, and arc flash. Findings arrive as actions, not appendices.

CM · QA/QC

Construction Management

Bid tabulation, submittal and pay application review, cost and schedule control. The owner's numbers, independently kept.

NISC · MINMAX · CUSTOM

Utility Software & Data

Asset system implementations, GIS conversions, model automation, and working web applications designed and built in house.

RTAC · DNP3 · 61850

SCADA & Automation

RTAC integration, point architecture, operator screens, and comms, delivered with the documentation that keeps it maintainable.

115 kV → 12.5 kV

Substation Engineering

Owner's engineer for greenfield builds and rebuilds: one-lines, specifications, procurement, energization planning, commissioning.

GIS · STAKING · JOINT USE

Distribution & Joint Use

Feeder design, staking, mapping and surveying, pole loading, and jurisdiction-ready attachment packages.

SAT · COMMISSIONING

Testing & Commissioning

Functional trip checks, end-to-end testing, and site acceptance, on site when the breaker closes.



CAMP SUBSTATION · OWNER'S ENGINEER, 2024-26



RAILROAD AVE 115 kV · COMMISSIONED 2025



ARC DAMAGE FORENSICS · TROUBLESHOOTING SUPPORT

The project record

A selection from a 50-project record spanning every layer of the utility. Client references gladly provided.

YEAR	ENGAGEMENT	SCOPE
2024-26	Greenfield 115 kV substation, owner's engineer	\$10M program: procurement, cost control, protection, commissioning
2026	Transmission line re-rating, 24 miles of 115 kV	PLS-CADD models from LiDAR, NESC clearances, segment ratings
2026	Substation operations manual and closeout	49-page operators reference: schemes, scenarios, event triage
2026	Solar interconnection, 2.99 MW, owner's side	Feeder bay civil design through point of interconnection
2026	Gas plant alternate-feed study	Model validation, power flow, fault analysis, TCC coordination
2026	Data center expansion, project management	Zero-outage cutover planning in a live colocation facility
2026	MinMax eSmart asset management implementation	Database conversion, QA/QC, inspection forms
2026	Wildfire recloser settings program	Seasonal profiles, CLPU coordination, crew-runnable test plans
2025	Substation commissioning, 8-position ring bus	Relay testing, logic verification, SCADA point-to-point
2025	RTAC and SCADA integration, seven relays	DNP3 point maps to the master, built from as-built settings
2025	STAKR staking estimator, live product	Members drop a pin; the tool designs and emails the estimate
2024	AMI antenna attachments, 20 pole sites	Field data, pole loading, jurisdiction submittals in four weeks
2016	Survalent SCADA, 20+ substations	Database and operator screens maintained for seven years
2013	Substation additions and rebuilds, series	Turnkey transformer, recloser, and control packages with SCADA

The principal and the bench



Einar Offerdahl III, PE

PRINCIPAL ENGINEER · WA · OR · ID · MT · CA

- BS Electrical Engineering, Montana State University
- 22 years, utility and industrial power systems
- 17 years, software and data systems, run in parallel
- Protection & SCADA: SEL relays, RTAC, Survalent
- Utility software: NISC, GIS, MinMax, custom tools

PARTNER Transmission	PARTNER Distribution · GIS · Survey	STAFF Drafting (2)
PARTNER System Engineering	PARTNER Administration	SCALED PER PROJECT Six partner specialists

Most failures happen where disciplines meet. That is exactly where we work.

EINAR OFFERDAHL III, PE · PRINCIPAL

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