

PG&E Synchronphasor Project Sustainability

Strategic Partners

ALSTOM



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Infrastructure Limitations

- Transmission
- Bandwidth
- Network/Firewalls

Resource Expertise

Data Exchange

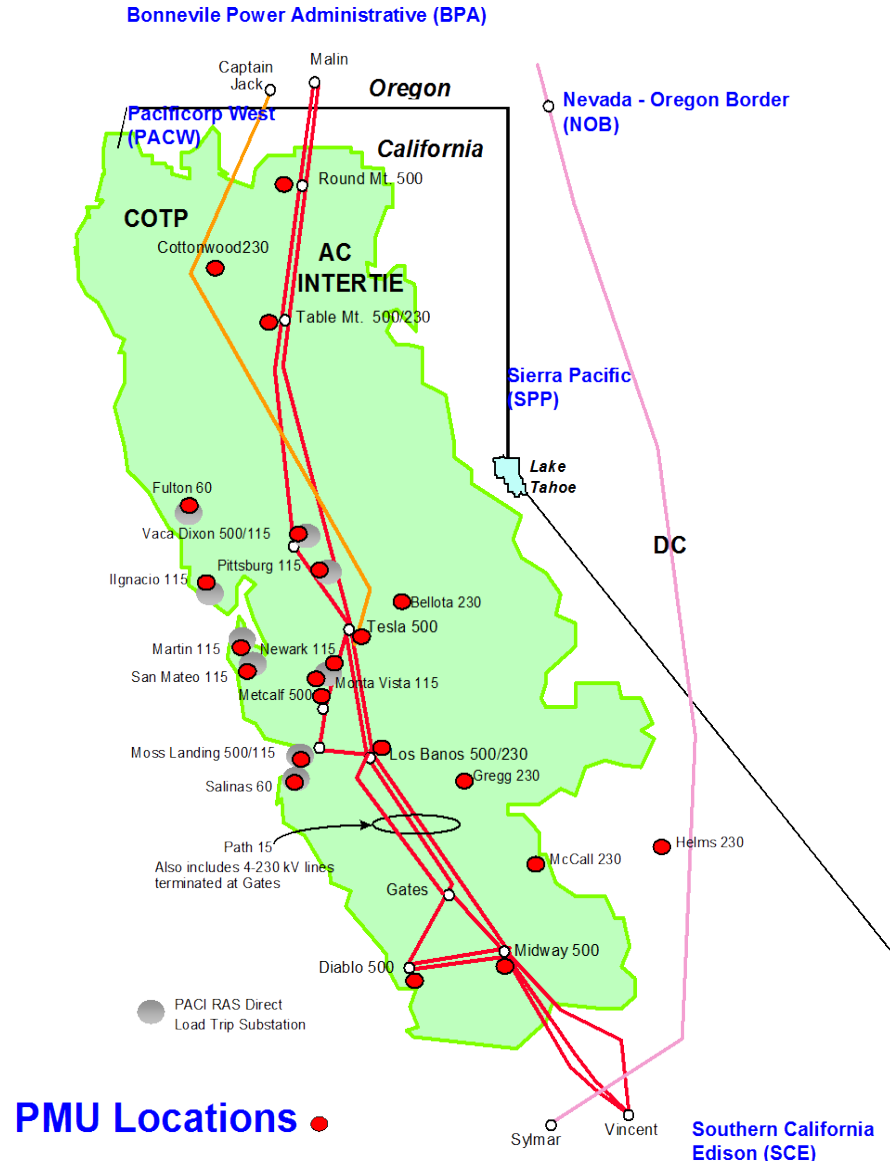
- Protocol
- Naming Convention

Hardware/firmware stability

- Multiple site visits

Troubleshooting

- Resource Availability
- Competing Priorities
- Multi-discipline support



Strategic Partners

- Ongoing Support Funding
- Feature Enhancements

Maintaining Lab Environment

- Hardware/Software Upgrades
- Software/Firmware Testing

Maintenance Support

- Service Level Agreements
- Operational Level Agreements
- Monitoring Tools/Alarming

System Enhancements

- Roadmap
- Stability issues(Clocking, Data Exchange)

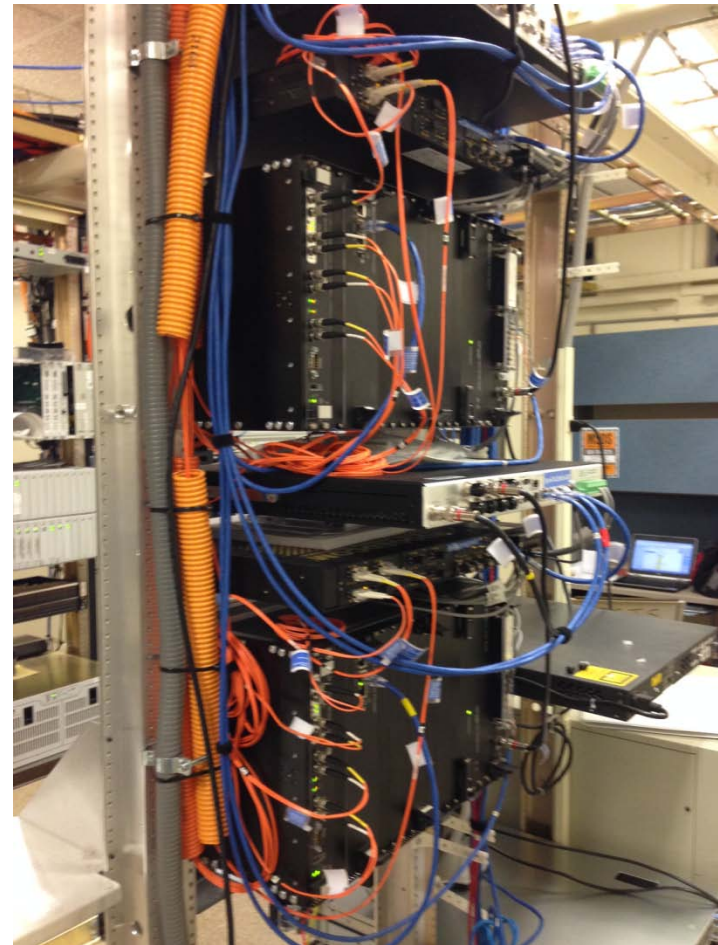
Training

- Multi-disciplinary
- Across lines of business

Documentation

- Network Drawings
- Configuration Manuals
- NERC CIP

Release to Operations



Typical PDC field installation

Questions?

