



System Expansion Plan Update

August 27, 2024



System Expansion Plan Update

Agenda

- Scott and Kifer Receiving Stations
- Northern Receiving Station
- Material Procurement
- PG&E Coordination
- 115 kV Transmission Line
- CAISO Transmission Line
- Battery Energy Storage Project
- Operational Improvements and Developer Options
- Northwest Loop Capacity Upgrade project
- PG&E Series Compensation Project
- Next Steps



SVP Receiving Stations Projects to Increase Reliability and Capacity

Scott and Kifer Receiving Stations (SRS & KRS):

- Replaces end of life infrastructure and increases capacity
- SRS constructed 1968 and KRS in 1975
- Full Rebuild and expansion
- **90% design underway**
- Ordered Transformers on January 2024
- Recommendation to authorize purchase circuit breakers May 7, 2024
- Recommendation to purchase disconnect switches, SSVT's, VT's and CVT's, combination revenue metering on May 28, 2024
- **SVP will seek Council action on additional procurements prior to the end of the year (Control Enclosure and P&C Panels)**



Scott Receiving Station



Kifer Receiving Station



SRS and KRS Schedule

- 100% Design Package – 3rd quarter 2024
- Advertise Projects – 4th Quarter 2024
- Start Construction – 2nd Quarter 2025
- 115 kV Completion – 3rd Quarter 2027
- 60 kV Completion – 4th Quarter 2028
- Close out and demo existing – 1st quarter 2029
- Key Schedule Consideration
 - Material Procurement
 - PG&E Coordination



Scott Receiving Station



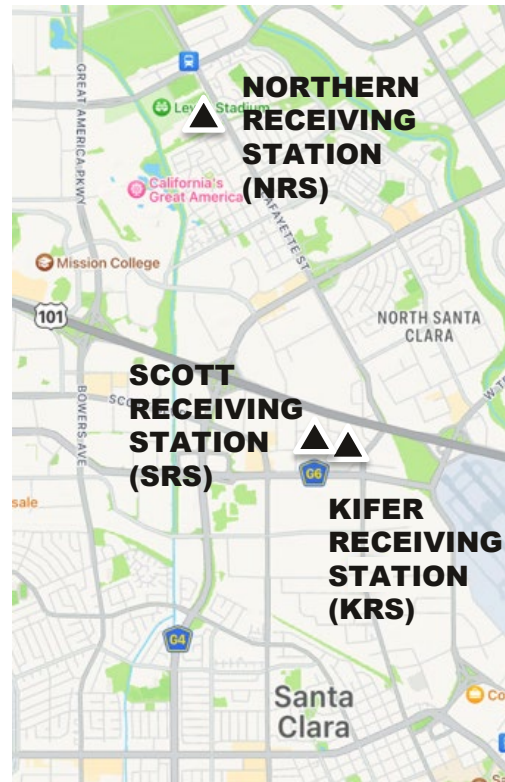
Kifer Receiving Station



SVP Receiving Stations Projects to Increase Reliability and Capacity

Northern Receiving Station (NRS):

- Relocation of two existing PG&E 115 kV overhead connections and CAISO meters, replacing with larger transformers, upgrade of existing main/transfer bus configurations, circuit breakers, disconnect switches and system protection improvements.
- Developed value engineering cost estimates and sequencing plans
- **60% underway**
- Ordered Transformers on January 2024
- Recommendation to authorize purchase circuit breakers May 7, 2024
- Recommendation to purchase disconnect switches, VT's and CVT's, combination revenue metering on May 28, 2024
- **SVP will seek Council action on additional procurements prior to the end of the year (P&C Panels, Capacitor Banks, Neutral Grounding Reactors)**





Material Procurement

	Circuit Breakers	Disconnect Switches	Station Service Voltage Transformers	Combination Revenue Metering Transformer	VTs, CVTs	P&C Panels (NRS)	Control Enclosure & P&C Panels (SRS/KRS)	Capacitor Banks (NRS)	Neutral Grounding Reactors (NRS)
Current Status	Preparing PO	Preparing PO	Direct Negotiations	Reviewing Bids	Preparing NOIA	Developing Tech Attachments	RFB Issued	Developing Tech Attachments	Developing RFB
Estimated Bid Release Date	--	--	--	--	--	September	--	September	August
Actual Bid Release Date	1/26/2024	3/13/2024	3/22/2024	5/9/2024	4/2/2024	--	8/19/2024	--	--
Estimated Bid Deadline	4/3/2024	4/24/2024	4/19/2024	6/5/2024	4/30/2024	October	9/30/2024	October	September
Target Council Meeting Date	May	May	May	May	May	October	October	October	October
Estimated PO Date	May	June	June	August	June	October	October	October	October
Estimated Lead Time from RPO (weeks)	104-156	60	90	62	58	52	52	52	TBD
Required on Site Date	Q1 2026 thru Q2 2027	Q3 2025	Q1 2026	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Projected on Site Date	Under Negotiation	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

- Disconnect Switches must be delivered mid 2025
- Breakers must be delivered between mid 2026-mid 2027



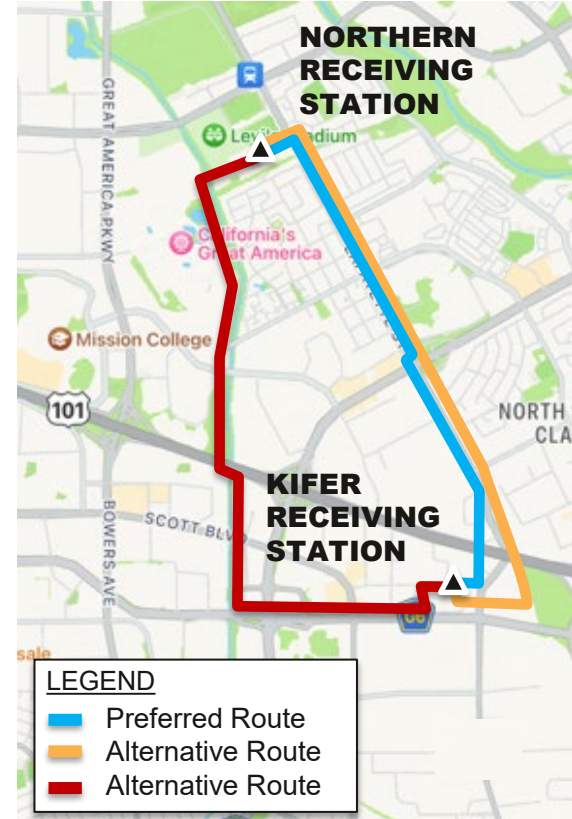
PG&E Coordination

- Comprehensive data/information request sent to PG&E in January
- PG&E provided a limited response on April 10th with most of the information requested withheld stating that after careful consideration they will be providing some but not all of the information requested
- 60% design packages by Engineers of Record developed based on assumptions of what PG&E will require. Designs may need to be revised upon receipt of missing information from PG&E and or PG&E staff review of proposed designs which could impact project schedules
- System Expansion Plan (SEP) Team still trying to schedule SEP project coordination meetings with PG&E staff for interconnection to PG&E systems which may impact protection and control drawings and logic.
- Although PG&E has been more engaged, we still have not received technical input on our design or the data requested in January.
- **New PM assigned 8/19.**



115kV Transmission Line Northern to Kifer Receiving Station

- Project Scope: Construct a new 115kV overhead transmission line of approximately 2.24 miles between Northern Receiving Station and Kifer Receiving Station
- Key Items: constructability, existing utilities, power delivery, potential growth, aesthetics, tree removals, maintenance considerations, construction costs, and schedule
- **Draft IS/MND published on July 31**
 - Held an in-person public meeting on August 22.
 - Public comment period closes on August 30.
 - Includes EMF study.
- **Preferred Route and CEQA consideration scheduled for Council on October 8, 2024**





115kV Transmission Schedule Assuming Overhead Option

Task	Timeframe
Planning	Jul. 2021 – Jul. 2022
Call for Proposals	Jul. 2022 – Jan. 2023
Design	Oct. 2022 – Nov. 2026
Easement Acquisition	Jan. 2024 – May 2026
CEQA	Jan. 2024 – Nov. 2024
Community Outreach	Apr. 2024 – Jun. 2024
Permits	Feb. 2024 – Nov. 2025
Material Procurements	Oct. 2024 – Nov. 2026
Construction Advertising & Awards	May 2026 – Nov. 2026
Construction/Close Out	Nov. 2026 – Mar. 2028

CAISO Transmission Line from PG&E Newark Station to SVP Northern Receiving Station

- LS Power will own and operate.
- Target in-service date by mid 2028
- Monthly Project Coordination Meetings
- Developing Interconnection Agreement between LS Power and SVP for Council Action.
- The estimated project costs have increased from \$510 million (CAISO 2021-2022 Transmission Plan) to \$959 million.
- On 6/20, SVP became a party to this proceeding to participate in the decision-making process.
- **Notice of Preparation and Scoping is currently underway for EIR (ends 8/30) with virtual public meetings held on 8/14.**





Battery Energy Storage Project

- Capacity up to 50MW/200MWh (4 hours daily)
- Completed:
 - 30% Site Design (Electrical) & Transmission Line Design
 - 60% SVP Control Enclosure Design
 - 90% Civil Site Design
- Next Steps:
 - Complete Design Packages
 - Site Demolition
 - Long Lead Equipment Procurement
- Expected Completion Date:
 - 4th Quarter 2025 / 1st Quarter 2026



Example of a Tesla Megapack



Interim Operational Improvements and Developer Options

Near Term Operational Improvements

- Exploring operational enhancements
 - SRS and KRS Transformer Ratings
 - Hiring specialized firm to perform analysis
 - Purchase of emergency standby transformers
- Existing 60kV Loop System
 - Exploring operational enhancements
 - Modeling underway

Developer Options for Additional Capacity

- Self-Generation (possible option to explore)





Northwest Loop Capacity Upgrade project

- SVP identified opportunity to increase capacity on NW Loop.
- Reconductor of approximately 2.62 miles of the 60 kV Northwest Loop to provide additional capacity for projected load growth within the City.
- 90% design expected by the end of this week.
- Once design is complete, RFP for materials will follow.
 - Tentative Target date for Energization: December 2025.



PG&E Series Compensation Project

- Series Compensation Project on Los Esteros-Nortech 115 kV line
- Part of PG&E Grid-Enhancing Technologies program that provide an alternative to capital expenditures
- This is a brand-new technology that PG&E is implementing into their systems for the first time
- Project has already been designed and modelled from the CAISO TPP process
- PG&E is targeting in service date of Q4 2025 and will be available for summer 2026 peak
- Vendor: Smart Wires
- **SVP has no authority over this project.**



Next Steps

- Meeting every two months on the last Tuesday of the month
 - Highlight changes/updates from previous meeting
- SVP webpages with this presentation and project updates
 - Email with website updates
- Council Actions per this presentation

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