



System Expansion Plan Update

June 25, 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
- Operational Improvements and Developer Options
- Northwest Loop Capacity Upgrade 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 - New 60kV/115kV Switchgear, control rooms, larger transformers, circuit breakers, disconnect switches, cable sealing, relocation of 60kV and 115kV transmission lines associated with each substation.
- **60% design comments being resolved**
- 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**



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



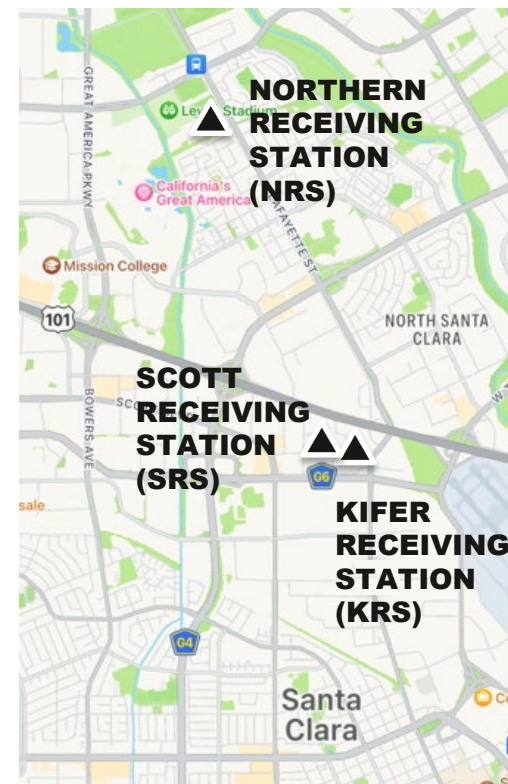
Kifer Receiving Station



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.
 - Replace two NRS 115/60kV Transformers (372 to 672 MVA)
 - NRS 115/60kV Transformer Spare (3rd Transformer)
 - Two new NRS 230KV Transformers (560 MVA), existing (420MVA) to remain in parallel.
- Developed value engineering cost estimates and sequencing plans
- **30% comments are being resolved and 60% design is beginning**
- 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**





Material Procurement

• Transformers – Delivery 2026

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

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



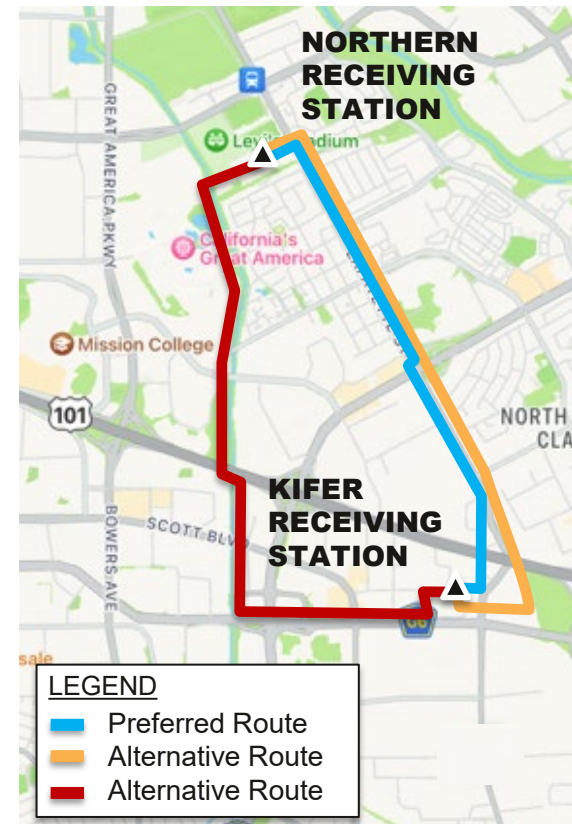
PG&E Coordination

- 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.**



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
- Refining preferred route alignment along Lafayette Street, Bassett Street, and Duane Avenue
- Council informational report March 19th
- CEQA public scoping meeting April 25th , May 23rd
- Preferred Route and CEQA consideration expected November 2024

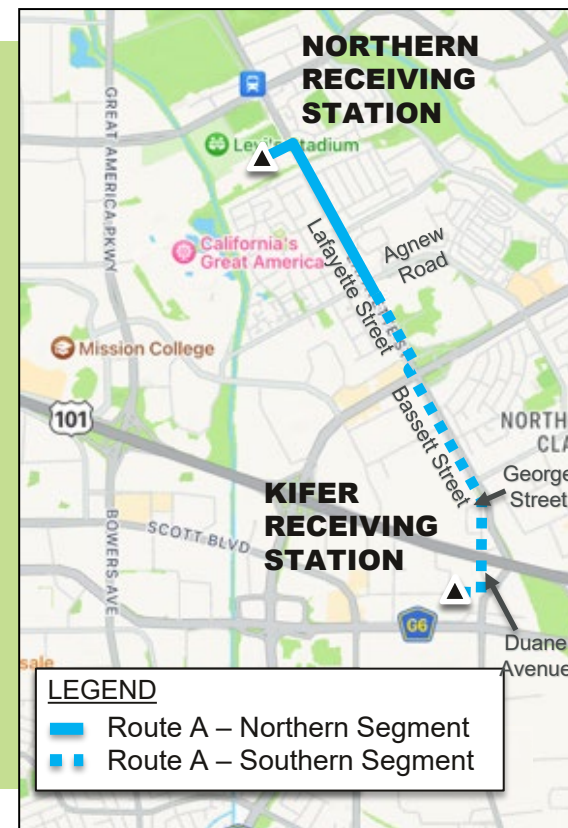




Preferred Route

Total Route Spans 2.24 miles

- NRS to Agnew (Northern Segment)
 - 0.74 miles
 - Overhead and underground options
 - Lafayette Street
- Agnew to KRS (Southern Segment)
 - 1.5 miles
 - Replaces existing transmission lines where available
 - Lafayette Street, Bassett Street, Duane Avenue



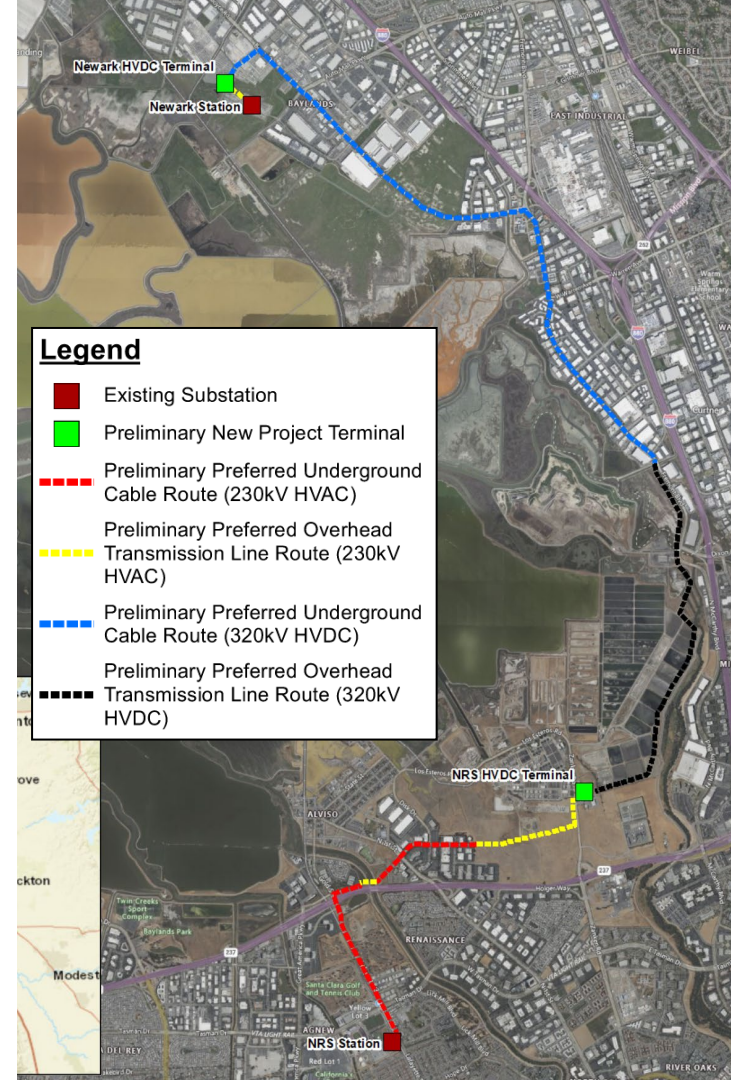


115kV Transmission Schedule Assuming Overhead Option

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, access to confidential information, legal standing and influencing the outcome.





Interim Operational Improvements and Developer Options

Interim Operational Improvements

- Operations of Current Transformers and SRS and KRS
 - Can existing transformers operations be enhanced
 - Hiring specialized firm to perform analysis
- Existing 60kV Loop System
 - Can Loops be operated differently
 - Modeling underway

Developer Options for Additional Capacity

- Continue to be open to options
- Scheduled for Council in June 2024



Northwest Loop Capacity Upgrade project

- Reconnector of approximately 2.62 miles of the 60 kV Northwest Loop to provide additional capacity for projected load growth within the City
- 60% design in progress
- Tentative Target date for Energization: December 2025
(Delays due to material procurement, unforeseen conditions, etc. will impact date)



Next Steps

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