



# **System Expansion Plan Update**

**October 29, 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 **on 11/12** (Control Enclosure and P&C Panels)



**Scott Receiving Station**



**Kifer Receiving Station**



# SRS and KRS Schedule

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



**Scott Receiving Station**



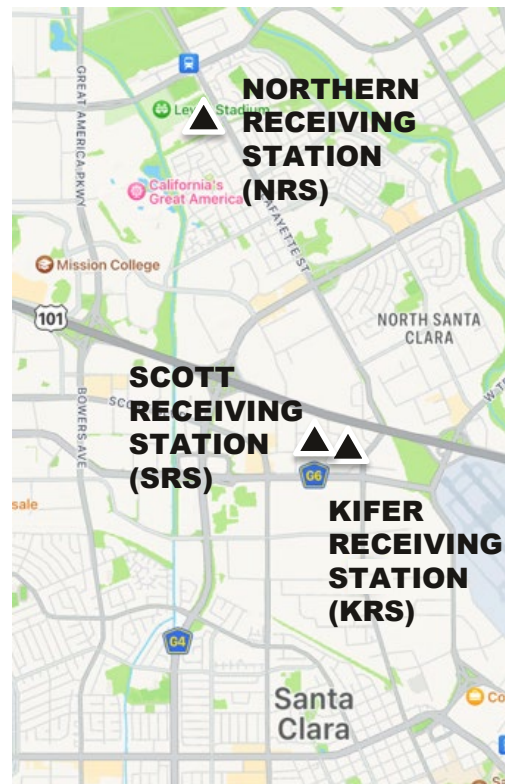
**Kifer Receiving Station**



# SVP Receiving Stations Projects to Increase Reliability and Capacity

## Northern Receiving Station (NRS):

- Expansion with larger transformers and DBDB configuration
- 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 P&C Panel and Capacitor Banks **on 11/19** and Neutral Grounding Reactors before the end of the year





# NRS Schedule

- 100% Design Package – 4<sup>th</sup> quarter 2024
- Advertise Projects – 1<sup>st</sup> Quarter 2025
- Start Construction – 3<sup>rd</sup> Quarter 2025
- Work Completion – **1<sup>st</sup> Quarter 2028**
- Key Schedule Considerations
  - 2026 Superbowl
  - 2026 World Cup
  - Material Procurement
  - PG&E Coordination



## Northern Receiving Station



# 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	Issued One of Two PO's	PO Issued	PO Issued	Reviewing Bids	Preparing NOIA	Developing Tech Attachments	Reviewing Bids	Developing Tech Attachments	Developing RFB
Estimated Bid Release Date	--	--	--	--	--	November	--	November	--
Actual Bid Release Date	1/26/2024	3/13/2024	3/22/2024	5/9/2024	4/2/2024	--	8/19/2024	--	9/20/2024
Estimated Bid Deadline	4/3/2024	4/24/2024	4/19/2024	6/5/2024	4/30/2024	October	9/30/2024	December	11/1/2024
Target Council Meeting Date	May	May	May	May	May	November	November	November	November
Estimated PO Date	September/November	October	August	August	November	December	December	December	December
Estimated Lead Time from RPO (weeks)	89-176	60	90	62	58	52	52	52	24
Required on Site Date	Q1 2026 thru Q2 2027	Q3 2025	Q3 2027	Q3 2025	Q3 2025	Q3 2025	Q4 2025	Q3 2025	Q2 2026
Projected on Site Date	Q1 2026 thru Q1 2028	Q4 2025	Q2 2026	TBD	TBD	TBD	Q4 2025	TBD	Q3 2025



# PG&E Coordination

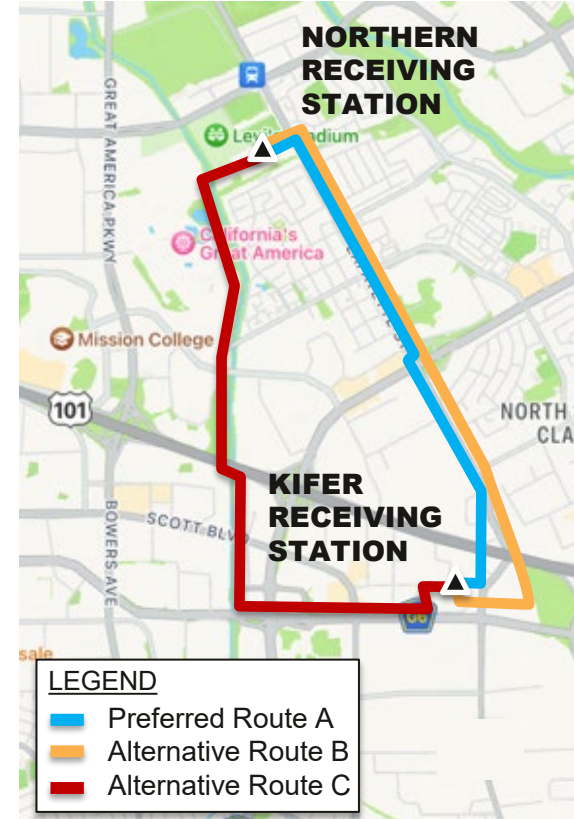
- Comprehensive data/information request sent to PG&E in January
- 60% **and 90%** design packages by Engineers of Record developed based on assumptions of what PG&E will require. Designs may need to be revised upon receipt of missing information from PG&E and or PG&E staff review of proposed designs which could impact project schedules.
- System Expansion Plan (SEP) Team **kicked off** SEP project coordination meetings with PG&E staff for interconnection to PG&E systems **on 10/22. Biweekly meetings are scheduled moving forward.**
- Technical input on our design and the data requested in January has begun to trickle in and breakout focus calls are being scheduled.
- **New PM assigned 10/16.**





# 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
- 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.
- **Final IS/MND published on September 24**
- **Preferred Route and CEQA consideration went to Council on 10/8– item was continued for additional health impacts relating to EMF and Route C consideration. SVP will return to Council on 11/12.**



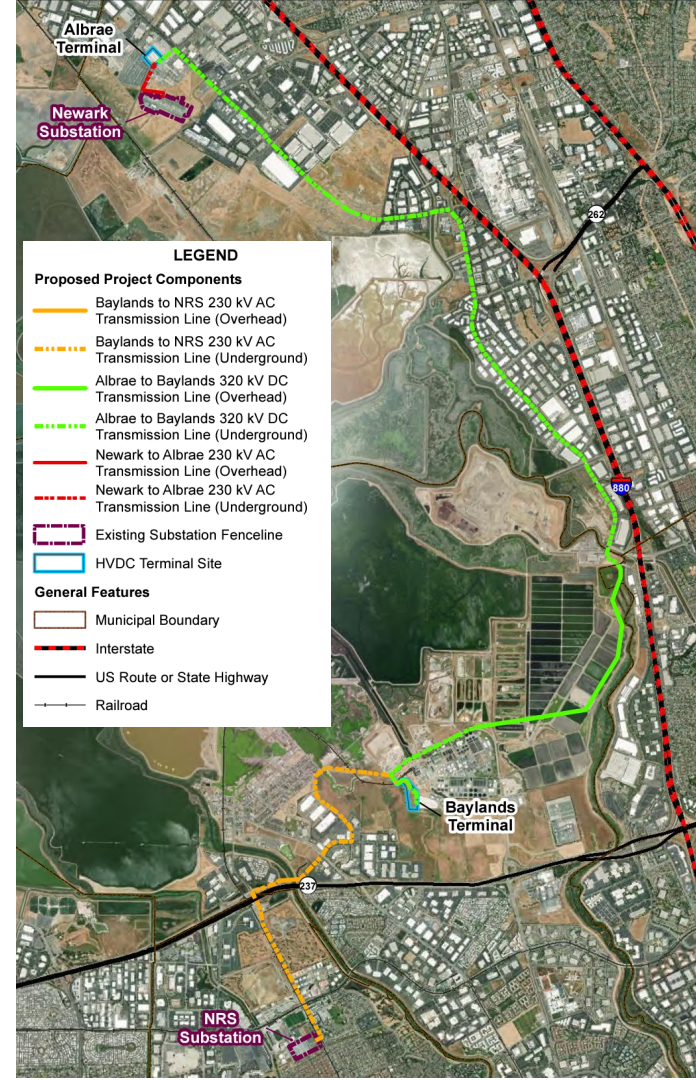


# 115kV Transmission Schedule Assuming Overhead Option

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:
  - **60% Site BESS Design (Electrical)**
  - 30% Transmission Line Design
  - **90% SVP Control Enclosure Design**
  - 90% Civil Site Design
- In progress:
  - **Complete BESS IFC Design Packages**
  - **Site Demolition began week of 10/21/24**
  - **Long Lead Equipment Procurement**
    - **Transformer and Switchgear orders have been placed**
    - **Battery order on track for execution in next two weeks**
- Expected Completion Date:
  - 1st Quarter 2026



**Example of a Tesla Megapack**





# Interim Operational Improvements and Developer Options

## Near Term Operational Improvements

- Operational enhancements
  - SRS and KRS Transformer Re-Ratings
  - Spare Transformer Program development
- Existing 60kV Loop System
- 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.
- Reconnector of approximately 2.62 miles of the 60 kV Northwest Loop to provide additional capacity for projected load growth within the City.
- 90% design is currently under review.
- Once design is complete, RFP for materials will follow.
  - Tentative Target date for Energization: Q1 2026. (Delays due to material procurement, unforeseen conditions, etc. will impact date.





## 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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