

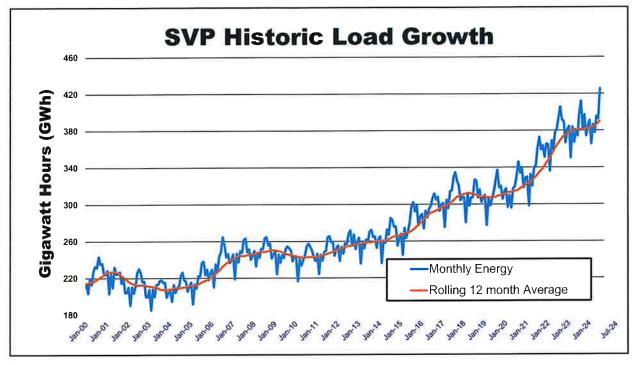
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# **Agenda**

- Growth Plan Update and System Limitations
- Update on System Expansion Projects
- Update on the Outage Management System
- SVP Martin Avenue Leased Office Space relocation and expansion
- Six-month look-ahead including proposed rate increase

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# **System Growth and Limitations**

- We have six (6) data center projects entitled or under construction
- Latest CAISO Analysis CAISO ability to serve 1,296 MW to SVP
- Can't currently serve all large Data Centers who would like to be in Santa Clara
- · Beyond the six data centers:
  - 10 additional projects are interested in completing System Impact Studies
  - 2 additional projects have inquired and are yet to be studied
- · How much growth is feasible? 2025 discussion





# **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
- · Council action to purchase circuit breakers May 7, 2024
- Council Action to purchase disconnect switches, metering & relaying transformers, 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 Protection & Control Panels)



Scott Receiving Station (SRS)



Kifer Receiving Station (KRS)

SILICON VALLEY POWER

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# 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
  - Beneficial use from the new 115 KV Transformers
- 60 kV Completion 4<sup>th</sup> Quarter 2028
- Closeout 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.
- 60% design underway
- · Ordered Transformers on January 2024
- Council action to purchase circuit breakers May 7, 2024
- Council Action 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 (Protection & Control Panels, Capacitor Banks, Neutral Grounding Reactors)



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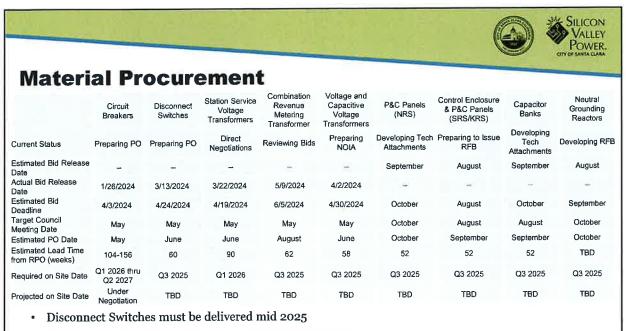


### **NRS Schedule**

- 100% Design Package 4<sup>th</sup> quarter 2024
- Advertise Projects 1st Quarter 2025
- Start Construction 3rd Quarter 2025
- Work Completion 3<sup>rd</sup> Quarter 2027
- Key Schedule Considerations
  - · 2026 Superbowl
  - · 2026 World Cup
  - · Material Procurement
  - · PG&E Coordination



Northern Receiving Station (NRS)



· Breakers must be delivered between mid 2026-mid 2027

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#### SILICON POWER. 115kV Transmission Line **Northern to Kifer Receiving Station** NORTHERN 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 101 NORTH ! Draft IS/MND published on July 31 with an in-KIFER RECEIVING person public meeting scheduled for August 22 STATION · Public comment period closes on August 30 Preferred Route and CEQA consideration scheduled LEGEND for Council on October 8, 2024 Preferred Route Alternative Route Alternative Route

# 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 decisionmaking process.
- Notice of Preparation and Scoping is currently underway for EIR (ends 8/30) with virtual public meetings held on 8/14.



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## **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:
  - 1<sup>st</sup> Quarter 2026



Example of a Tesla Megapack

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# 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 (insert date of City Council approval)



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# **Outage Management System**

### What is it?

- An online control center that can quickly find out when and where power outages happen
- A smart tool that not only helps the utility fix problems quickly but also keeps customers better informed

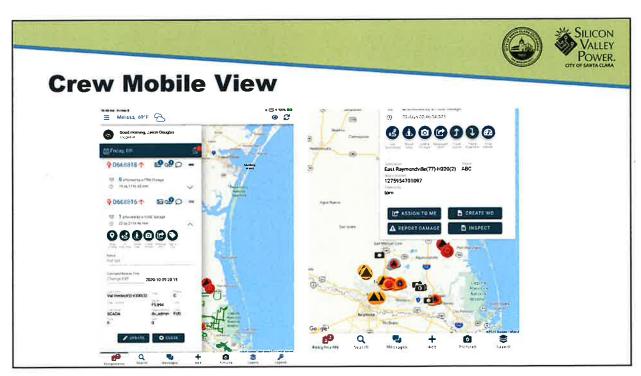
#### **Features**

- Customer communications (Callouts, emails, mail as text, text messages, push notifications)
- Customer reporting solutions
- Expedited systems notifications
- Mobile ready
- Internal communications management
- Interactive Voice Response (IVR)

Timeline to implement - 9 to 12 months

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# **SVP Leased Office Space**

- · Currently have approximately 30,000 SF
- Lease expires October 2025
- · Have determined SVP needs larger space
  - · All SVP city hall staff relocated to Martin Avenue
  - · Struggling to accommodate staff
  - · All cubicles utilized even with 18% vacancy rate
- · Negotiating 50,000 SF building space at same complex
  - · Five-year term with future options
  - · CBRE providing negotiating support

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# **Upcoming Items**

- Next 6 months highlights
  - Outage Management System Contract (August)
  - Contracts for Control Enclosures and P&C Panels at SRS/KRS
  - Contracts for P&C Panels, Capacitor Banks, Neutral Grounding Reactors at NRS
  - Bond Financing of 3 CIP System Expansion Projects (September)
  - 115kV Transmission Alignment Consideration of CEQA Mitigated Negative Declaration (October)
  - Rate Increase (November/December)

8/20/2024

