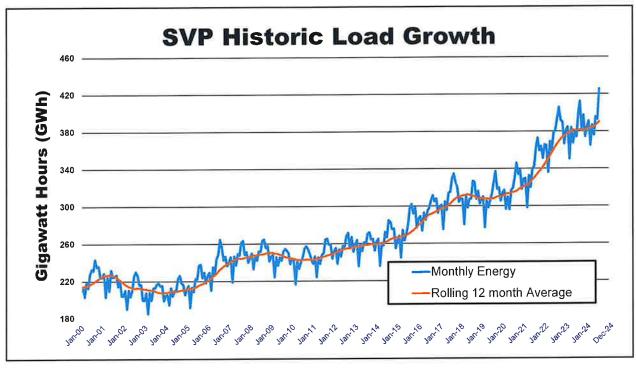


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Agenda

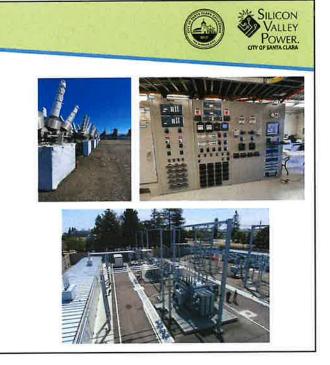
- Growth Plan Update and System Limitations
- Update on Other Strategic Priorities
- Update on System Expansion Projects
- Update on the Technology Projects
- Rebate Update
- Six-month look-ahead



3

Growth and Expansion

- Staff determined there was a growth need in late 2019 - SVP Strategic Planning Session
- Prioritized Growth Plan as an SVP Strategic Priority and three others
 - Maintenance Program
 - Power Acquisition Strategy
 - Succession Planning





Three Other Priorities

Maintenance Programs

- Generation (Power Plants)
 - Master Service Agreements (2021 and 2025): Gas Turbine, Steam Turbine, Generator, and Rotating Equipment
 - Implementation of Predictive Maintenance Program
 - Strategic Capital Projects to upgrade and replace major facility equipment including Turbine and Balance of Plant Controls, SCR and CO Catalysts, and Cooling Tower overhaul
- Substations
 - Implementation of Predictive Maintenance Program (2022):
 Thermography, Partial Discharge Testing, Transformer Oil Testing
 by 3rd Party on quarterly basis in all Substations.
 - Developed Maintenance Program (2024) Phased implementation is underway through 2026.
- Transmission and Distribution
 - Implementation of new proactive tree trimming contract (2020 and updated 2022) and strategic tree trimming philosophy
 - Two new contractor contracts (2024) T&D maintenance and construction.





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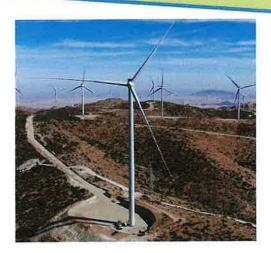
Three Other Priorities

Power Acquisition Strategy

- More aggressive approach to Power Purchase Agreements
- · Focus on feasibility
- Have entered into 1,404 MWs the last 5 years.
- Exploring 1,412 additional MWs

Succession Planning

- · Added 24 Positions the following two years
- Added 12 positions in 2024
- Staffing and organizational plan in 2025





Growth and Expansion

- Staff determined there was a growth need in late 2019 - SVP Strategic Planning Session
- Prioritized Growth Plan as an SVP Strategic Priority and three others
 - Maintenance Program
 - Power Acquisition Strategy
 - Succession Planning
- Peak limit approximately 750 MW
 - Planning for a 1300+/- MW system
- Current peak 722 MW

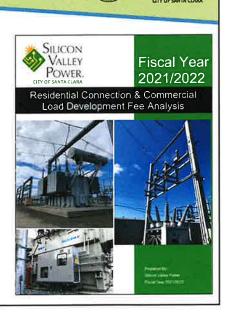


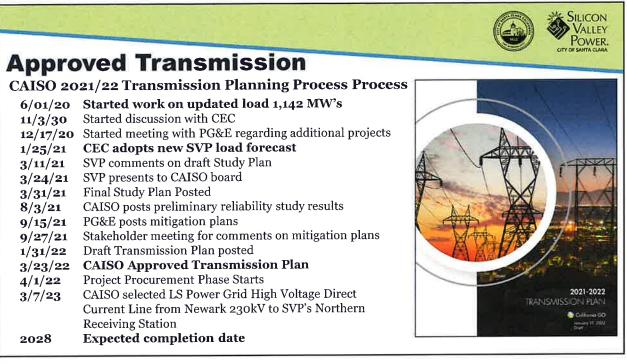


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Load Growth - Key Priorities

- Two Multi-phased Activities (SVP and CAISO)
- Analyzed New Load for Upcoming Projects and Load Ramp
- Additional Power and Transmission Capacity
 - Working with CAISO on additional transmission capacity and growth
 - CAISO to develop and construct projects for transmission capacity
- SVP In-City Projects
 - Consultant support
 - Rebuild receiving stations
 - New transmission
 - Upgrading existing transmission
 - Battery storage



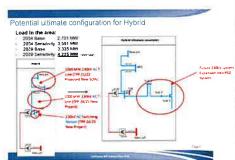


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CAISO Transmission Line from PG&E Newark Station to SVP Northern Receiving Station

- · LS Power will own and operate.
- Target in-service date 2028
- SVP was recently informed that the Line will be upgraded from 500MW to 1000 MW – CAISO Board November 2024
- SVP was also informed that CAISO is analyzing additional transmission opportunities - 2025



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Major Expansion Projects

- · Bond Financing
 - First Bond Issuance of \$130 Million in 2024 and Second Bond Issuance of \$240 Million in 2026
- Scott and Kifer Receiving Stations \$254 million
 - · Full rebuild and expansion
 - Replaces end of life infrastructure and increases capacity
- Schedule
 - · Issue For Bid Package Underway
 - Major Material Procurement (In-Progress)
 - Construction Bid Advertise February 2025







Kifer Receiving Station (KRS)

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Major Expansion Projects

- · Northern Receiving Station \$166 million
 - · Upgrades and Expansion
 - Schedule
 - · Issue for Bid Package Underway
 - Major Material Procurement (In-Progress)
 - Construction Bid Advertise March 2025
- 115 kV Transmission line \$50 million
 - Connects Northern Receiving Station and Kifer Receiving Station
 - Schedule
 - 60% Design Underway
 - Easement acquisition thru May 2026
 - Anticipated construction start late 2026





Northern Receiving Station

Item #8





Council Communication and Actions

- October 13, 2020 Master service agreements with several engineering consultant firms
- April 6, 2021 Comprehensive review of upcoming load growth and capital projects to the City Council
- September 28, 2021 the City Council accepted SVP's Three-Year System Growth Plan Strategy
- April 5, 2022 updated connection and load development fees for SVP
- November 15, 2022 City Council accepted SVP's System Expansion Plan for the California Independent System Operator's Transmission Planning Process
- May 9, 2023 City's intent to issue tax-exempt electric system bonds

- July 18, 2023 Updated City Council regarding these key near-term projects
- October 10, 2023 Authorized the purchase of up to 12 high voltage transformers - \$81,392,908
- March 19, 2024 Informational Report Regarding Route Analysis for 115kV Transmission Line from NRS to KRS
- April 23, 2024 updated connection fees and load development fees
- May 7, 2024 Authorized the negotiation and purchase of high voltage circuit breakers -\$38,000,000.

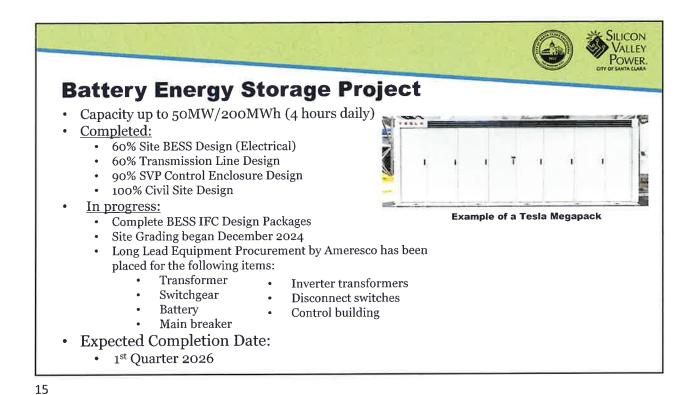
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Council Communication and Actions

- May 28, 2024 Authorized the negotiation and purchase of high voltage disconnect switches, station service voltage transformers, voltage transformers and capacitive voltage transformers, and combination revenue metering transformers -\$17,400,000
- May 28, 2024 Authorized Amendments to Existing Agreements as Required to Complete Unanticipated Internal Inspection and Re-rate Engineering Study for Transformer Upgrades at KRS and SRS
- September 10, 2024 Approved the issuance of electric revenue bonds which provide funding for the large System Expansion Plan projects
- October 8, 2024 Action Continued on an MND and MMRP and Route Approval for the 115kV Transmission Line from NRS to KRS

- November 12, 2024 Approved MND and MMRP and Route Approval for the 115kV Transmission Line from NRS to KRS (Continued from 10/8/24)
- November 12, 2024, Authorized the purchase of control enclosures with protection and control panels and neutral grounding resistors -\$14,950,000
- November 19, 2024, Authorized the purchase of capacitor banks with reactive switching devices, protection and control panels, insulators, and surge arrestors - \$12,650,000
- December 3, 2024, Delegation of Authority to the City Manager to Negotiate and Execute Amendments to Agreements for Design Professional Services for System Capacity Expansion Planning



Technology Upgrades

Outage Management System

- OMS Project Kick-off: January 15, 2025
 - System Go-Live: Summer 2025

Modeling and Battery Optimization

- · Software for optimizing the timing of charge and discharge cycles
- Preparing RFP for service providers
- Targeting Q3/Q4 2025
- · Increase ROI and support maximizing grid reliability

Customer Rebate System

- Brillion hosted database software to process rebates for customer programs
- Launch dates: Residential- Feb/March 2025, Commercial Summer 2025
- Brillion tool will increase capacity and decrease processing time





Technology Upgrades

Safety Training Program

- Unified Computer-Based Training platform for all SVP staff
 - HSI deployed to all staff January 1st
- Two new contracts for hands on safety training for T&D, Substation, and Generation
- Better training content and status tracking tools for managers



- ARCOS Software Automated "callout", scheduling & crew management
 - Contract executed on -October 2024
 - Target implementation Q2 2025



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Technology Upgrades

Autodesk Vault

- · Maintain version control and audit logs for drawings
- Digital drawings across multiple work groups and platforms
- · Optimize performance for faster file searches, data retrieval and enhanced data management
 - Council approved RTC on Nov 19, 2024 (Finalizing contract)

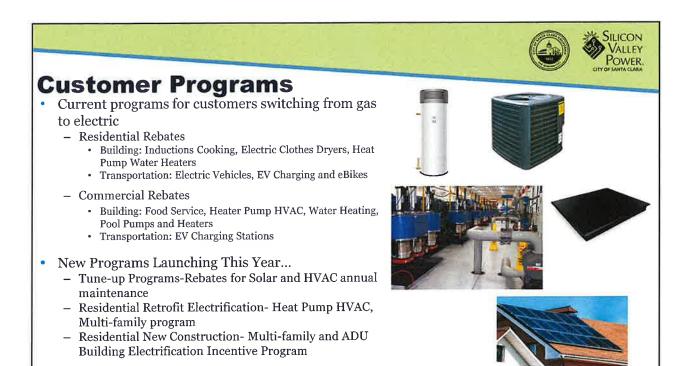
ArcGIS/ArcFM Migration

- Benefits include Mobile GIS Application extending GIS to our field crews
 - RFP Released July 10, 2024
 - Proposals reviewed by SVP team on Nov 18, 2024
 - Estimated duration of project is 18 months following kickoff meeting

Enterprise Asset Management System (EAM)

- Plan, design, construct, operate, inspect and maintain assets using a GIS-centric unified solution
- Predict and mitigate potential equipment failure
 - RFP will be published Spring 2025

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Upcoming Items

- Next 6 months highlights
 - KRS/SRS Construction Contract (June timeframe)
 - NRS Construction Contract (June timeframe)
 - Northwest Loop Upgrades Contract
 - Property Acquisition
 - Easement Acquisition
 - Property Leases
 - Secondary Staging Yard
 - Office Building
 - Community Solar Findings
 - Multiple Contracts and Agreements
 - Policy Discussion Future Growth

1/28/2025 Item #8

