# SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY Board of Directors Meeting Thursday, December 19, 2024



# **EXECUTIVE DIRECTOR REPORT**

### Working Group Update

Daniel E Garcia | *Executive Director* 

# **CONSENT CALENDAR**

### A. Minutes of the Board of Directors Meeting

• Regular Meeting Minutes: November 21,2024

### **B.** Receive and File:

- 1. Finance Committee Meeting Minutes: November 4, 2024
- 2. Monthly Investment Report: October 2024
- 3. SCPPA A&G Budget Comparison Report: October 2024
- 4. Palo Verde Nuclear Generating Station Status Report: October 2024
- 5. Magnolia Power Project Operations Report: November 2024
- 6. Federal Legislative Report: November 2024

### **C. Resolution 2024-108**

Approve Amendment No. 3 to Long-Term Service Agreement Between Southern California Public Power Authority and GE Vernova International LLC for the Apex Power Project





# **FINANCE REPORT**

Aileen Ma | Chief Financial & Administrative Officer

## SOUTHERN TRANSMISSION SYSTEM (STS) BOND REFUNDING



- Project Participants: LADWP, Anaheim, Riverside, Pasadena, Burbank, and Glendale
- Outstanding project revenue bonds:

Series	Structure	Outstanding	Optional Redemption	Final Maturity
2015 Series C	Fixed Rate Tax-Exempt	\$89,480,000	January 1, 2025	July 1, 2027

### Financing Plan

- Refinance for debt service savings
- Issue fixed rate tax-exempt refunding revenue bonds
- Same final maturity of July 1, 2027
- Price the bonds via competitive sale



Estimated debt service savings based on rates as of 11/25/2024

Date		Participant Shares								
	Cashflow Savings	LADWP	City of Anaheim	City of Riverside	City of Pasadena	City of Burbank	City of Glendale			
	earnige	59.534%	17.647%	10.164%	5.883%	4.498%	2.274%			
7/1/2025	476,369	283,602	84,065	48,418	28,025	21,427	10,833			
7/1/2026	1,092,900	650,647	192,864	111,082	64,295	49,159	24,853			
7/1/2027	1,089,500	648,623	192,264	1 <mark>1</mark> 0,737	64,095	49,006	24,775			
Total	2,658,769	1,582,872	469,193	270,237	156,415	119,591	60,460			

Net present value (NPV) savings equivalent - \$2.4 million (2.67% of refunded par)



Firm	Role	Estimated Fees & Expenses
Norton Rose Fulbright	Bond/Disclosure Counsel	\$ 160,000
Nixon Peabody	Tax Counsel	50,000
PFM Financial Advisors	Financial Advisor	80,000
US Bank	Trustee	12,250
S&P Global	Rating Agency	38,000
Printer		3,500
Contingency		5,000
Estimated Cost of Issuance	\$ 348,750	



- Anticipated financing schedule
  - ▶ January 2<sup>nd</sup> Post Notice of Intention to Sell and Preliminary Official Statement
  - January 8<sup>th</sup> Competitive sale
- December 2<sup>nd -</sup> Finance Committee recommended approval of the Authorizing Resolution

Recommendation:

Adopt Resolution No. 2024-109 authorizing the issuance of refunding revenue bonds and the execution and delivery of various agreements relating to the issuance of refunding revenue bonds



## SOUTHERN TRANSMISSION SYSTEM (STS) RENEWAL PROJECT REVENUE BONDS (THIRD TRANCHE)



## STS RENEWAL PROJECT REVENUE BONDS

## STS Renewal Project

- Capital improvements to existing Southern Transmission System
- Multiple components with in-service dates from May 2024 to April 2028
- Total estimated cost \$2.7 billion
- Project Participants
  - ► LADWP, Glendale, and Burbank
- Project Participants desire SCPPA to provide financing



## STS RENEWAL PROJECT REVENUE BONDS

Financing Plan

- Fixed rate tax-exempt project revenue bonds
- Multiple tranches to reduce capitalized interest and debt service
  - First tranche issued in May 2023 for \$686 million
  - Second tranche issued in May 2024 for \$563 million
  - Final maturity in 2053
  - Approximately level aggregate debt service
- Issuing third tranche to cover estimated construction spending through June 2026
- Anticipate one additional tranche



## STS RENEWAL PROJECT REVENUE BONDS

December 2<sup>nd</sup> - Finance Committee recommended approval of Resolution authorizing the preparation of all necessary documents

Recommendation:

Adopt Resolution No. 2024-110 authorizing the preparation of financing documents for the sale and issuance of project revenue bonds for the STS Renewal Project



## THANK YOU





# ASSET MANAGEMENT

CHARLES GUSS | Senior Asset Manager GUADALUPE ROBLES | Senior Utility Analyst



## Eland Solar & Storage Center, Phase 1 FY 24-25 Project Budget Revision

Resolution 2024-111



## Eland Solar & Storage Center, Phase 1 FY 24-25 Project Budget Revision No. 1

- Eland Solar & Storage Center, Phase 1
  - Located in Kern County, CA
  - 200 MW-ac PV Solar plus 150 MW/600 MWh BESS
  - Project COD on November 18, 2024
- Original FY 24-25 Budget Total of \$31.864 Million
- Revised FY 24-25 Budget Total of \$35.984 Million
  - PPA Expense Payment \$4.12 Million allocated to Eland 1
  - Due 60 days after COD of Eland 1
- Resolution 2024-111
  - Project Vote: Glendale (12.5%) and LADWP (87.5%)



## RECOMMENDATION: Approval of Resolution 2024-111

Authorizes Approval of the Eland Solar & Storage Center, Phase 1 FY 24/25 Budget Revision No. 1







## Eland Solar & Storage Center, Phase 2 FY 24-25 Project Budget Revision

Resolution 2024-112



## Eland Solar & Storage Center, Phase 2 FY 24-25 Project Budget Revision No. 1

- Eland Solar & Storage Center, Phase 2
  - Located in Kern County, CA
  - 200 MW-ac PV Solar plus 150 MW/600 MWh BESS
  - Project COD expected on March 31, 2025
- Original FY 24-25 Budget Total of \$17.538 Million
- Revised FY 24-25 Budget Total of \$21.658 Million
  - PPA Expense Payment \$4.12 Million allocated to Eland 2
  - Due 60 days after Eland 1 COD of November 18, 2024
- Resolution 2024-112
  - Project Vote: LADWP (100%)



## RECOMMENDATION: Approval of Resolution 2024-112

Authorizes Approval of the Eland Solar & Storage Center, Phase 2 FY 24/25 Budget Revision No. 1





# Thank you







## **Project Development**

Randy Krager | Project Development Manager



# Reliability, Restoration, and Response (SR3) Benchmarking Summary

December 19, 2024

Results from study conducted during 2024, using data from 2023

### Agenda

- Introduction
- Summary
- Insights and Observations
- Reliability Results and Measurement Practices
  - Reliability Statistics and Measurement
- Financial and Staffing
- Statistics and Demographics

# Introduction

### Introduction

### The Study

 SCPPA commissioned a benchmark study of electric system reliability, comparing the performance of its member companies against the performance of a variety of utilities across the U.S. The study is a continuation of studies conducted for SCPPA over the past several years.

### Approach

- The data used in this study comes from the Energy Information Administration (EIA), and from a study conducted by First Quartile Consulting (1QC) in which detailed reliability and related data are provided directly by the utilities to 1QC.
- The EIA data is drawn from a large population, with data from investor-owned utilities (IOUs), municipally/publicly owned utilities, and cooperatively-owned utilities.
- The 1QC data is more detailed, with more depth of information about each electric system, the measurement approaches in use for the reliability statistics, and some additional metrics beyond just the 3 key metrics (SAIDI, SAIFI, CAIDI).
- Between these two datasets, there is enough information for SCPPA members to draw conclusions about reliability results.
- Throughout this document, we have identified the source of the data for the individual charts.

### **Participating SCPPA Members**

- Anaheim Public Utilities
- Burbank Water and Power
- City of Azusa Light & Water
- City of Banning
- City of Vernon
- Glendale Water and Power
- Pasadena Water & Power

## Note: SCPPA members have ID numbers greater than 300

### **Summary of Results**

What follows is a series of comparisons of the SCPPA utilities versus the North American industry, comparing their performance on the key reliability statistics of SAIDI, SAIFI, and CAIDI.

- SCPPA utilities generally reported very good reliability results.
  - SCPPA member companies have historically been better than most of the panel comparisons.
  - While SCPPA members are still performing well, other groups are now performing better.

 Reported results for publicly-owned utilities are better than those for investor-owned utilities for electric system reliability.

- System design and service territory demographics provide advantages to publicly-owned utilities.
- Low exposure to extremes of weather provides advantages to the SCPPA utilities.
- SCPPA members lag the industry in terms of automated metering and in comprehensiveness of reliability measurement.
  - Two members have fully-implemented AMI type meters .

### **Understanding the Graphs**



**Source:** Question(s) used for data. Calculation is not an actual representation of calculation used.

**Company IDs:** Each company is given a confidential ID number. Each bar represents one company's data and each bar is identified y that company's ID number.

# **Reliability Statistics**

SAIDI, SAIFI, CAIDI

### Only Half of SCPPA Members Use OMS to Validate Reliability Statistics

 Most utilities in the 1QC panel use OMS data to validate outages.



#### DR0260| How do you validate the outages in your outage statistics (provide PRIMARY approach)?

	10	17	19	30	32	33	41	42	43	44	45	47	55
Manually only	-	-	•	•	-	•	-	•	-	•	•	•	-
OMS only	-	-	-	•	-	-	-	-	-	-	-	-	-
Manually and through OMS	-	•	-	•	•	•	•	•	-	-	•	•	-
OMS and Smart Meter (AMI)	-	-	-	•	•	-	-	-	-	-	-	-	•
Other	•	-	-	•	-	•	-	-	•	•	-	-	-

#### Source: DR0260

#### DR0260| How do you validate the outages in your outage statistics (provide PRIMARY approach)?

	301	302	304	308	309	312
Manually and through OMS	-	•	•	-	•	-
Manually only	•	-	-	•	-	•

**QUARTILE** ISUITING

### **SCPPA Members Perform Favorably** When Compared to Other Western Utilities

 In a panel of Western Investor-Owned and Municipal utilities, most SCPPA members perform better than average.







#### SAIDI Excluding MED in Minutes

#### Source: EIA

EIA Data Set: a9e96086

*QUARTILE* **ISUITING**  For SAIFI, SCPPA Members are More Distributed Throughout the IOU and Municipal Western Panel

 Against this panel, the SCPPA median is greater than 1<sup>st</sup> quartile.

![](_page_32_Figure_2.jpeg)

![](_page_32_Figure_3.jpeg)

![](_page_32_Figure_4.jpeg)

#### Source: EIA

EIA Data Set: 010da9ab

**QUARTILE** 

IRS

### For CAIDI, SCPPA Members Typically Perform Better Than Average

 CAIDI for the SCPPA group shows improvement since 2019, with a median result in the first quartile.

![](_page_33_Figure_2.jpeg)

Source: EIA

![](_page_33_Figure_4.jpeg)

### CAIDI Excluding MED in Minutes

#### Source: EIA

EIA Data Set: 5bbb2dd1

*QUARTILE* **ISUITING** 

### When Compared to Western State Utilities, SCPPA Members Tend Toward 1st and 2nd Quartile Placement

![](_page_34_Figure_1.jpeg)

SAIFI (Excluding Major Events 2.5 beta)

#### Source: EIA

### A Closer Look at Just SCPPA Members Shows How They Perform Against Other Southern California Utilities

![](_page_35_Figure_1.jpeg)

Note that the axis scales are quite different when just the SCPPA members are shown SAIFI (Excluding Major Events 2.5 beta)
# **Planned Interruptions**

### For Most SCPPA Utilities the Minutes of Interruption From Planned Outages are Minimal

### • At least one SCPPA member experiences more than half of SAIDI minutes from planned interruptions.



SAIDI (Excluding Major Events & Planned Interruptions) - Minutes

Source: DR0050, DR0300

1QC Data Set; SCPPA InsightsReli: MbbKXJK

### **Planned Interruptions Can Be a Significant Driver of Outages**

• For one SCPPA member, it's nearly all the outages, although only a small percentage of the minutes.



SAIFI (Excluding Major Events and Planned Interruptions)

Source: DR0050, DR0400.2

1QC Data Set; SCPPA InsightsReli: axjvQC

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### **Comparing SAIDI to SAIFI from Planned Interruptions Shows the Relationship**

Some utilities have few interruptions with long durations other are the opposite.



1QC Data Set; SCPPA InsightsReli: 7d97c369

# **Other Reliability Statistics**

**CEMI, CELID and MAIFI** 

### At a Minimum 20% of Customers Experience at Least 1 Outage

• For 2 of the 3 reporting SCPPA utilities most customers only experience 1 or 2 outages.



Percent of Customers with <4 Interruptions Last Year (Inverse CEMI-4)

#### Source: DR0650, DR0660

1QC Data Set; SCPPA InsightsReli: b67783f3

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### **SCPPA Members Mostly Report Outages of Less Than 16 Hours**

However, one member reports that 23% of its outages are longer than 8 hours.



1QC Data Set; SCPPA InsightsReli: 3f1649e4

### A Few SCPPA Members Track and Report MAIFI, With Good Results Reported



1QC Data Set; SCPPA InsightsReli: da5aeaf2

# **Impact from OH Lines**

### **SCPPA Members Tend Toward Higher Percentages of Underground**

• Over 60% of customers are served from overhead lines even for predominantly metropolitan utilities.



#### Percentage of Line Miles

Source: ST0400

1QC Data Set; SCPPA Insights Stat: : 856d2fac

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# For the Industry, Equipment Failures and Trees are the Two Leading Causes of Outage Minutes

• For several of the SCPPA companies, Foreign Interference is the largest single cause of outage minutes.





#### 1QC Data Set; SCPPA InsightsReli: 21a758fc

### Percent of OH Circuits DR0300.5, ST0450.1 1QC Data Set; SCPPA InsightsReli: qjRAP

40%

SAIDI due to Equipment Failure vs Percent of OH Circuits

309

302

308

20%

100.0

50.0

0.0

SAIDI due to Dist Equip Failure

A Higher % OH Circuits is strongly correlated with Higher SAIDI Caused by Distribution Equipment Failure

There is a somewhat lower correlation to SAIFI.

SAIFI due to Equipment Failure vs Percent of OH Circuits



DR0400.5. ST0450.1

# **Underground Cable**

# Higher Percentages of Underground Miles Have Been Related to Better Reliability Performance

Several, but not all SCPPA members have a high percentage of underground lines



#### Percent of Circuit Miles: Underground

#### Source: ST0450

1QC Data Set; SCPPA InsightsReli: c4bab9a7

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### **SCPPA Members Have Higher Percentages of Equipment Failures from Underground** Cable than Other Metropolitan Utilities.

- SCPPA utilities also tend to have higher UG cable percentages.
- OH Conductor and Transformers round out the top problem areas.



Percent of SAIDI Minutes Caused by Each Equipment Failure Type

#### Source: DR0620

1QC Data Set; SCPPA InsightsReli: 9f2f4337

First Quartile

### Only 2 SCPPA Members Achieve 1st Quartile in All 3 Measures (SAIDI, SAIFI, CAIDI)

- Having a high percent of circuit miles underground positively impacts reliability results but isn't the only factor.
- Cable failure also has an impact. (Stars members with high UG cable)

SAIDI Value = Q1
SAIDI Value = Q2
SAIDI Value = Q3
SAIDI Value = Q4
---- SAIDI Q1 Limit
---- SAIDI Q2 Limit
---- SAIDI Q3 Limit

**Curved Lines Legend** 

**Bubble Color Legend** 



SAIFI (Exc Major Events 2.5 beta)

#### Bubble size relates to Percent Underground Circuit Miles

#### Source: DR0050

1QC Data Set; SCPPA InsightsReli: DpJHNec

# Understanding Age of UG Cable in Addition to Cable Type Can Guide Efforts to Prevent Failures



### 1QC Data Set; SCPPA Insights Stat: NDvvsP

### On a per Mile Basis, SCPPA Members Have the Highest Distribution Equipment Failure Contribution to SAIDI

• UG Cable and OH Conductor failure are the primary contributors.



Source: DR0620 / ST0450

1QC Data Set; SCPPA InsightsReli: daecc58f

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# **Statistics and Demographics**

# SCPPA Utilities are More Densely Populated than Other Metropolitan Utilities in the 1QC Panel



#### **Customers per Circuit Mile**



Source: ST0050 / ST0450

#### 1QC Data Set; SCPPA Insights Stat: 0b9c11a7

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### SCPPA Members Have More C/I Customers and a Higher Percent of C/I Load







#### 1QC Data Set; SCPPA Insights Stat: 08538eb0

### **SCPPA Utilities Have a High Percent of 15kV Class Distribution**

• The industry standard is mostly 15kV class equipment.



Source: ST0550

1QC Data Set; SCPPA Insights Stat: 054b1d5c

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### **Summary**

### • Results reflect similar patterns for the SCPPA utilities over the past 3 years.

- Overall results are quite good.
- Each individual utility has had some variation in results, including a couple with poor years driven by major events.

### Improvement opportunities are available.

- Complete reporting, including planned outages.
- Move to reporting of individual service outages, rather than circuit-level reporting.
- Evaluation of outage causes (25% are reported as "other")
- Thank you for another good year!

#### 60

RST QUARTILE Consulting

### **Thank You for your Participation**

We look forward to the 2025 SC3 Reliability Comparisons





www.1QConsulting.com



# **Government Affairs Update**

December 19, 2024

# Cap-and-Trade Update

# California Air Resources Board (CARB)

- CARB expected to make Cap-and-Trade Amendments for 2026-2030
  - Including IOU/POU allowance allocations
- Rulemaking process delayed to 2025

# Legislation for Cap-and-Trade Reauthorization Post-2030

- Reauthorization legislation expected this session
- Senate has created a working group
- CMUA has been designated as POU rep
  - SCPPA is guiding CMUA on position paper to the Senate







# **CEC's RPS Advisories**

# Background

- SCPPA & Members have been prioritizing CEC outreach
- Recent issues: prepay transactions and renewable markets

# Prepay Transactions

SCPPA Prepay Working Group expressed need for regulatory certainty

### Renewable Markets

- Current supply and demand imbalance creating resource scarcity and increased prices
- Especially a challenge for some regarding long term contract requirements





# RPS Advisory on Optional Compliance Measures

- CEC published an advisory as a reminder of the 3 optional compliance measures available to POUs
- Optional compliance measures are aimed at helping POUs that are unable to reach the long-term procurement requirements avoid penalties

NERV COMPLEXION	CALIFORNIA ENERGY COMMISSION		CALIFORNIA NATURAL RESOURCES AGENCY				
REGULATORY ADVISORY							
	Renewables Portfolio Standard O for Local Publicly Owned Electri Long-Term Procurem	ptional Compliance ic Utilities to Delay o ent Requirements	Measures or Satisfy				

Optional Compliance Measure
Delay of Timely Compliance
Cost Limitation
Portfolio Balance Reduction



# **RPS Advisory on Prepay Transactions**

- CEC published an advisory with their interpretation of the RPS regulations, favorably for POUs using prepay transactions
- Prepay arrangements should not, and are not expected to, impact the PCC classification or long-term status of these contracts."





# **2025 Legislative Session**

**December 2<sup>nd</sup> Organizational Session** 



We must do more to lower energy costs. High energy prices hit lowincome Californians the hardest. Look - California has always led the way on climate. And we will continue to lead on climate. But not on the backs of poor and working people....

This session, I want our Assembly Utilities & Energy and Budget Committees to double down on investigating energy costs.

- Speaker Robert Rivas



# 2025 Legislative Session

#### DEADLINES

JANUARY										
	S	Μ	Т	W	TH	F	S			
				1	2	3	4			
Wk. 1	5	6	7	8	9	10	11			
Wk. 2	12	13	14	15	16	17	18			
Wk. 3	19	20	21	22	23	24	25			
Wk. 4	26	27	28	29	30	31				



#### Jan. 1 Statutes take effect (Art. IV, Sec. 8(c)).

Jan. 6 Legislature reconvenes (J.R. 51(a)(1)).

- Jan. 10 Budget bill must be submitted by Governor (Art. IV, Sec. 12(a)).
- Jan. 20 Martin Luther King, Jr. Day observed.
- Jan. 24 Last day to submit bill requests to the Office of Legislative Counsel.

#### Feb. 17 Presidents' Day observed.

Feb. 21 Last day for bills to be introduced (J.R. 61(a)(1), J.R. 54(a)).

LAO 2025-26 Fiscal Outlook

State has small
 \$2 billion
 deficit

"[T]his year's budget does not have capacity for new commitments"

Assembly reduced bill limit from 50 to 35 for 2-year session.



# Government Affairs Strategic Planning Meeting Recap





# **Team Building Activity**





# **State Regulatory Priorities**

- California Air Resources Board (CARB)
  - Tier 1 Priorities
    - □ Cap-and-Trade
      - Allowance allocation
      - Use of allowance value
      - Consignment
      - MRR
    - □ AB 1594 Advanced Clean Fleets (ACF) rule
    - Hydrogen
  - No Tier 2 Priorities
  - Tier 3 Priorities
    - □ SB 253 Corporate Climate Reporting
    - □ EPA-Required Mini Scoping Plan (potential for funding)





# **State Regulatory Priorities**

- California Energy Commission (CEC)
  - Tier 1 Priorities
    - Relationship Building
    - RPS Compliance
    - RPS Guidebook
    - □ SB 100 Report
    - □ AB 1373 Capacity Payment and Central Procurement
    - □ SB 1075 IEPR Hydrogen Assessment
  - Tier 2 Priorities
    - Building Energy Codes; Transportation IEPR; SB 1158/PSD; Electrification; SB 423; AB 3264;
  - Tier 3 Priorities
    - Incentive Programs; Load Management Standards



![](_page_70_Picture_14.jpeg)

# **State Regulatory Priorities**

- CA Independent System Operator (CAISO)
  - Tier 1 Priorities
    - Pathways
    - Resource adequacy
  - Tier 2 Priorities
    - Interconnection Process Enhancements
    - EDAM
    - 20-year outlook
  - Tier 3 Priorities
    - □ Congestion Revenue Rights
    - Transmission Planning Process

![](_page_71_Picture_12.jpeg)
## **State Regulatory Priorities**

South Coast Air Quality Management District (SCAQMD)

- Tier 1 Priorities
  - □ Stealth major repairs rulemaking
  - Fleets (field trip opportunity)
- Tier 2 Priorities
  - PR317.1 (nonattainment fees)
- Tier 3 Priorities
  - □ Indirect Source Rule (for ports)





## **State Legislative Priorities**

- POU Education for new members
  - POUs vs. IOUs
  - POU priorities
- Affordability
- Cap-and-Trade Reauthorization
- Pathways
- Hydrogen
- Broadband
- Facilitating Clean Energy Infrastructure (e.g., streamlining)



## **Advocacy Events**

- Capitol Day (February 3)
  - Issue Paper:
    - POU/SCPPA 101
    - Affordability, Renewables, Cap-and-Trade
- Washington, D.C. (February 23-27)
  - Issue Papers:
    - SCPPA 101
    - Muni bonds, ARBs
    - IRA

SCPPA

- Nuclear Waste
- Transformers
- Transmission
- Other Potential Tours & Meetings:
  - SCPPA Tour for SCAQMD
  - "SCPPA-tol Day" Modified Capitol Day Focused on New Legislators