

To: Studies Subcommittee (StS), Doug Tucker, and Eepsita Priye (StS Chair) Subject: SCE's 2025 Annual Progress Report

Southern California Edison (SCE) has provided a list of projects (refer to Table 1 below) in accordance with the WECC Progress Report Policies and Procedures to: (1) help capture all generation projects, transmission projects and any other facilities that may have a significant impact on the reliability of the WECC interconnected electric system; and (2) inform neighboring systems in a timely manner regarding new facility additions to our system and associated system operation.

Please contact me if you have any questions.

Hayk Zargaryan Phone: 909-274-1630 Email: Hayk.Zargaryan@sce.com

Cc: Allison Auld-Hill, Siyuan 'Shawn' Wang, and Jon-Michael Brown



| Table 1: Transmission and Generation Projects | | |
|---|---|-----------------------------|
| # | Transmission Projects | Expected In-Service Date |
| 1 | Delaney – Colorado River 500 kV Transmission Line Project Description: Install 114 miles of a new 500 kV transmission line and associated series compensation between Arizona Public Service Company-owned Delaney 500 kV substation and SCE-owned Colorado River 500 kV substation. | In-Service |
| 2 | Eldorado-Lugo-Mohave Series Capacitors Upgrade Description: Upgrade series capacitors on the Lugo – Mohave 500 kV transmission line from 35% to 70% compensation and the Eldorado – Lugo 500 kV transmission line from 35% to 65% compensation. | May 2025 |
| 3 | Antelope – Whirlwind 500 kV Line Upgrade Description: Increase the existing Antelope – Whirlwind 500 kV line rating by fixing the ground clearance for nine towers. | December 2025 |
| 4 | Victor 220 kV Switchrack Reconfiguration Description: Convert the existing Victor 220 kV bus from a double breaker double bus (DBDB) scheme to a breaker-and-a-half (BAAH) configuration. | June 2026 |
| 5 | Barre 220 kV Switchrack Conversion to Breaker-and-a-Half Description: Convert Barre 220 kV switchrack to a breaker-and-a- half configuration, add sectionalizing circuit breakers to split the bus, and relocate 220 kV lines, towers, and other facilities within the substation. | June 2026 |
| 6 | Cool Water 220/115 kV Transformer Project Description: Add a Cool Water 220/115 280 MVA transformer bank. | December 2026 |
| 7 | Inyo 220 kV Shunt Reactor Description: Install a new 25 MVAR shunt reactor at Inyo 220 kV substation. | December 2026 |
| 8 | Mira Loma – Mesa 500 kV Underground Third Cable Description: Add third set of 5000 kcmil cable to underground section to increase the rating of the most limiting section of the existing Mira Loma – Mesa 500 kV line. | December 2026 |



| # | Transmission Projects (Continued) | Expected In-Service Date |
|----|--|-----------------------------|
| 9 | Sylmar Bank F Upgrade Description: Replace the existing 220 kV three-phase transformer bank F, its associated protection, four disconnect switches, twelve surge arresters, and associated equipment based on a 1,290 MVA normal and 1,610 MVA emergency rating. | December 2026 |
| 10 | Devers 220 kV Reconfiguration Project Description: Modify the Devers substation bus configuration by changing the Devers – Mirage No. 1 and No. 2 220 kV line positions. | June 2027 |
| 11 | Lugo – Victorville Transmission Line Upgrade Description: Increase rating of LADWP and SCE jointly owned line by upgrading terminal equipment at both substations and removing ground clearance limitations. | November 2027 |
| 12 | Colorado River – Red Bluff 500 kV No. 1 Line Upgrade Description: Increase the existing Colorado River – Red Bluff 500 kV No.1 line by fixing ground clearance. | December 2027 |
| 13 | Devers – Valley 500 kV No. 1 Line Upgrade Description: Increase the existing Devers-Valley 500 kV No.1 line by fixing ground clearance and replacing the limited terminal equipment. | December 2027 |
| 14 | Serrano 4AA 500/220 kV Transformer and 220 kV GIS Rebuild Description: Rebuild 220 kV GIS to 80 kA capability with option to sectionalize in the future and add a new fourth 500/220 kV transformer bank at Serrano substation. | December 2027 |
| 15 | Serrano-Alberhill-Valley 500 kV Line Upgrade Description: Increase the existing Serrano – Valley (future Serrano- Alberhill-Valley) 500 kV line by replacing the limiting terminal equipment. | December 2027 |
| 16 | Calcite 220 kV Substation Description: Construct new Calcite 220 kV switching station to interconnect renewable generation projects. Loop-in the existing Lugo – Pisgah 220 kV No. 1 transmission line. | June 2028 |
| 17 | Mira Loma 500 kV Circuit Breaker Upgrade Description: Circuit breaker replacement at Mira Loma 500 kV substation to address short circuit duty concerns. | December 2028 |



| # | Transmission Projects (Continued) | Expected In-Service Date |
|----|--|-----------------------------|
| 18 | Etiwanda – San Bernardino 220 kV Line Upgrade Description: Re-conductor Etiwanda – San Bernardino 220 kV line and replace line positions at Etiwanda and San Bernardino substations. | March 2029 |
| 19 | Etiwanda – Vista 220 kV Line Upgrade Description: Increase the existing Etiwanda – Vista 220 kV line by fixing ground clearance and replacing the limiting terminal equipment. | March 2029 |
| 20 | San Bernardino – Vista 220 kV Line Upgrade Description: Re-conductor San Bernardino-Vista 220 kV line and replace line positions at San Bernardino and Vista substations. | March 2029 |
| 21 | Alberhill 500/115 kV Substation Description: Develop a new 500/115 kV substation by looping in SCE's existing Serrano – Valley 500 kV line. | June 2029 |
| 22 | Pardee – Sylmar 220 kV No. 1 and No. 2 Line Upgrade Description: Upgrading terminal equipment at both ends of the Pardee – Sylmar 220 kV No.1 and No.2 lines to match rating of the conductor | June 2029 |
| 23 | Wildlife 220 kV Substation Description: New 220 kV substation in Riverside County. | October 2029 |
| 24 | Eldorado Jointly Owned 220 kV Bus Split Description: Split of the Eldorado jointly owned 220 kV bus and transmission line reconfiguration for the purpose of lowering short circuit duty to within acceptable levels. | December 2029 |
| 25 | Devers – Red Bluff 500 kV No. 1 and No. 2 Line Upgrade Description: Increase the existing Devers – Red Bluff 500 kV No.1 and No.2 lines by fixing ground clearance and replacing the limiting terminal equipment. | January 2030 |
| 26 | Lugo-Victor-Kramer 220 kV Upgrade Description: Add third Lugo 500/220 kV transformer (2028). Reconductor Lugo – Victor 220 kV No. 1, 2, 3 and 4 lines (2028). Rebuild/build Kramer – Victor 115 kV lines to 220 kV and loop the old segment of Kramer – Victor 115 kV into Roadway (2033). | June 2033 |



| # | Transmission Projects (Continued) | Expected In-Service Date |
|----|---|-----------------------------|
| 27 | Del Amo-Mesa-Serrano 500 kV Transmission Reinforcement Description: New Del Amo 500 kV switchyard with three 500/220 kV transformers, loop Alamitos – Barre 220 kV No.1 and No.2 lines into Del Amo substation, utilize existing conductor on the Mesa – Mira Loma 500 kV line and construct new 500 kV transmission line facilities resulting in the new Del Amo – Mesa and Del Amo – Serrano 500 kV transmission lines. | December 2033 |
| # | Generation Projects | Expected In-Service Date |
| 1 | Antelope Solar 2 (Q1208) Description: 650 MW hybrid PV and BESS generating facility. POI: 220 kV Antelope substation | In-Service |
| 2 | Antelope Valley Complex (Q1215/Q1319) Description: Combined projects Q1215 and Q1319. Multiple phase project consisting of: Phase 1: 130 MW PV/BESS Phase 2: 250 MW PV/BESS Phase 3: 125 MW BESS It will share the existing gen-tie line with (Q653R). POI: 220 kV Whirlwind substation | In-Service |
| 3 | Athos Power Plant (Q1405) Description: 450 MW hybrid PV and BESS generating facility. Dedicated 220 kV gen-tie line. POI: 220 kV Red Bluff substation | In-Service |
| 4 | Menifee Power Bank (Q1645) Description: 680 MW BESS generation facility. It will share the existing SCE owned gen-tie line known previously as the Inland Empire – Valley 500 kV line. POI: 500 kV Valley substation | In-Service |
| 5 | Oberon (Q1642) Description: 500 MW hybrid PV and BESS generation facility. Dedicated 500 kV gen-tie line. POI: 500 kV Red Bluff substation | In-Service |



| # | Generation Projects (Continued) | Expected In-Service Date |
|----|---|-----------------------------|
| 6 | Quartzite Solar 11 (Q1526) Description: 150 MW hybrid PV and BESS generation facility. It will share the Q1198 Quartzite Solar 8 gen-tie line. POI: 220 kV Colorado River substation | In-Service |
| 7 | Quartzite Solar 8 (Q1198) Description: 150 MW hybrid PV and BESS generation facility. POI: 220 kV Colorado River substation | In-Service |
| 8 | Rexford Solar Farm (Q1516) Description: 300 MW hybrid PV and BESS generating facility. POI: 220 kV Vestal substation | In-Service |
| 9 | Silver State Solar South (Q467) Description: 200 MW BESS located in Jean, NV. BESS to be included as part of the existing 250 MW solar PV facility. POI: 220 kV Primm substation | In-Service |
| 10 | Tahoe (Q1339, also known as Poleta Spring) Description: 300 MW BESS located in Boulder City, NV. POI: 220 kV Eldorado substation | In-Service |
| 11 | Daggett Solar 1 (Q1312) Description: 144 MW hybrid PV and BESS generation plant located in Daggett, CA. POI: 115 kV Coolwater substation | March 2025 |
| 12 | Commerce Energy Storage (Q1611) Description: 250 MW BESS located in Commerce, CA. Dedicated 220 kV gen-tie line. POI: 220 kV Laguna Bell substation | April 2025 |
| 13 | Kestrel (Q1615) Description: 200 MW BESS generating facility. Dedicated 220 kV gen-tie line. POI: 220 kV Walnut substation | May 2025 |
| 14 | Sanborn Hybrid 3 (Q1632) Description: 1400 MW hybrid PV and BESS generating facility. Dedicated 500kV gen-tie line. POI: 500 kV Windhub substation | May 2025 |
| 15 | Aratina Solar Center (Q1204) Description: 200 MW hybrid PV and BESS generating facility. POI: 220 kV Kramer substation | June 2025 |



| # | Generation Projects (Continued) | Expected In-Service Date |
|----|--|-----------------------------|
| 16 | Aratina Solar Center 2 (Q1604) Description: 200 MW hybrid PV and BESS generation plant located in Boron, CA. It will share a gen-tie with Aratina Solar Center 1. POI: 220 kV Kramer substation | June 2025 |
| 17 | Baldy Mesa Solar 2 (Q1519) Description: 125 MW (50 MW hybrid PV and 75 MW BESS) project split into two phases. This project shares a POI MW with Baldy Mesa 1 (200 MW). POI: 115 kV Roadway substation | June 2025 |
| 18 | Lockhart Solar, Lockhart Solar 2, & SEGS Expansion Hybrid 2 (TOT697QFC/TOT914/TOT909) Description: 330 MW hybrid PV and BESS generation facility. It will share the existing Kramer – LSP 220 kV gen-tie line. Phase 1 (85 MW) and Phase 2 PV (75 MW) are in-service. POI: 220 kV Kramer substation | August 2025 |
| 19 | Humidor Storage (Q1629) Description: 300 MW BESS generating facility. Dedicated 500 kV gen-tie line. POI: 500 kV Vincent substation | December 2025 |
| 20 | Bellefield Solar Farm (Q1510) Description: 500 MW hybrid PV and BESS generating facility. POI: 220 kV Windhub substation | June 2025 |
| 21 | Angeleno (Q1625) Description: 1,100 MW hybrid PV and BESS generating facility. Dedicated 500 kV gen-tie line. POI: 500 kV Vincent substation | April 2026 |
| 22 | Avocet (Q1608) Description: 200 MW BESS generating facility. Dedicated 220 kV gen-tie line. POI: 220 kV Hinson substation | April 2026 |
| 23 | Atlas Solar (Q1402) Description: 3,200 MW hybrid PV and BESS generating facility. POI: 500 kV Cielo Azul substation (Delaney Colorado River Transmission LLC owned, future new substation loop into Colorado River – Delaney) | July 2026 |



| # | Generation Projects (Continued) | Expected In-Service Date |
|----|--|-----------------------------|
| 24 | Commerce Energy Storage 2 (Q1677) Description: 250 MW BESS located in Commerce, CA. It will share the Q1611 gen-tie. POI: 220 kV Laguna Bell substation | July 2026 |
| 25 | Easley (Q2042) Description: 650 MW hybrid PV and BESS generating facility. It will share the existing Oberon – Red Bluff 500 kV gen-tie line. POI: 500 kV Red Bluff substation | July 2026 |
| 26 | Centennial Flats (Q1529) Description: 500 MW hybrid PV and BESS generating facility. Dedicated 500 kV gen-tie line. POI: 500 kV Cielo Azul substation (Delaney Colorado River Transmission LLC owned, future new substation loop into Colorado River – Delaney) | August 2026 |
| 27 | Goldback Solar Center (Q1619) Description: 500 MW BESS generating facility. Dedicated 220 kV gen-tie line. POI: 220 kV Moorpark substation | March 2026 |
| 28 | Cobalt (Q1757) Description: 250 MW hybrid PV and BESS generating facility. Dedicated 220kV gen-tie line. POI: 220 kV Colorado River substation | January 2027 |
| 29 | Sanborn 5 Hybrid (Q1791) Description: 600 MW DC-coupled hybrid PV and BESS generating facility. Dedicated 220 kV gen-tie line. POI: 220 kV Windhub substation | January 2027 |
| 30 | Grace Energy Center (Q1761) Description: 500 MW hybrid PV and BESS generating facility. Dedicated 220 kV gen-tie line. POI: 220 kV Colorado River substation | March 2027 |
| 31 | Glenfeliz Solar Farm (Q1631) Description: 500 MW hybrid PV and BESS generating facility. POI: 220 kV Windhub substation | April 2027 |
| 32 | Overnight Solar (Q1774) Description: 150 MW hybrid PV and BESS generation plant located in Hinkley, CA. It will share a gen-tie with the Mojave Solar project. POI: 220 kV Sandlot substation | May 2027 |



| # | Generation Projects (Continued) | Expected In-Service Date |
|----|--|-----------------------------|
| 33 | Delamar Energy Storage (Q1796) | lune 2027 |
| | POI: 220 kV Eldorado substation | June 2027 |
| | Roadhouse (Q1768) | |
| 24 | Description: 300 MW BESS located in Commerce, CA. Dedicated 220 | luna 2027 |
| 54 | kV gen-tie line. | June 2027 |
| | POI: 220 kV Mira Loma 'A' substation | |
| | Ventoso (Q1776) | |
| 35 | Description: 200 MW three resource (PV, BESS, and wind) | October 2027 |
| | generation plant located in Daggett, CA. | |
| | POI: 115 kV Coolwater substation | |
| | Sienna Solar Farm (Q1207) | |
| | Description: 200 MW PV generating facility. The Calcite – Sienna | |
| 36 | 220 kV gen-tie line will terminate in a new 220 kV position at Calcite | January 2028 |
| | substation. | |
| | POI: 220 kV Calcite substation | |
| | Lycan Solar (Q1643) | |
| 37 | Description: 400 MW hybrid PV and BESS generating facility. | April 2030 |
| | Dedicated 500 kV gen-tie line. | · |
| | POI: 500 kV Red Bluff substation | |
| | Calypso Solar (Q1636) | |
| 38 | Description: 400 MW hybrid PV and BESS generating facility. | April 2031 |
| | Dedicated 500 kV gen-tie line. | F |
| | POI: 500 kV Colorado River substation | |