T.Dot	T.Dot Project Description	CPUC Filing Type	CPUC Date Filed	CPUC Status	CPUC Status: Year	Project Status
T.0000159	Egbert 230kV Switching Station	CPCN: A.17-12-021	2017-12-28	Approved	2020	Engineering
T.0000597	VIERRA 115 KV REINFORCEMENT	PTC: A.18-06-004	2018-06-15	Approved	2021	Construction
T.0000154	Estrella 230 kV Transmission Substation	PTC: A.17-01-023	2017-01-25	Approved	2024	Construction
T.0009169	Metcalf HVDC Interconnection Project	NOC: AL 7391-E	2024-10-10	Approved	2024	Engineering
T.0007676	AWS Gilroy 115kV Interconnection	NOC: AL 7687-E	2025-08-29	Approved	2025	Engineering
T.0009194	Manning New 500kV Sub Connection	NOC: AL 7706-E	2025-09-24	Approved	2025	Engineering
T.0010475	BORDEN-COPPERMINE 70KV POLE RELO AV12	NOC: AL-7703-E	2025-09-24	Approved	2025	Engineering
T.0008743	Riverbank-Ripon - Line Reconductor	NOC: AL 7732-E	2025-10-15	Approved	2025	Engineering
T.0009721	COLGATE-SMARTVILLE COND SEG RPL	NOC: AL 7735-E	2025-10-17	Approved	2025	Engineering
T.0000007	Vaca Dixon Area Reinforcement Project	NOC: AL 7542-E PTC: A.24-06-008	3/12/2025 6/28/2024	Approved Filed and Under Review	2025 TBD	Construction
T.0000155	Lockeford - Lodi Area 230 kV Development	CPCN: A.23-09-001	2023-09-01	Filed and Under Review	TBD	Engineering
T.0000349	Moraga-Oakland #1-#4 Rebuild	PTC: A. 24-11-005	2024-11-15	Filed and Under Review	TBD	Engineering
T.0000013	Coleman - Red Bluff Project	NOC: AL 7766-E	2025-11-25	Filed and Under Review	TBD	Engineering
T.0004688	Lincoln Pleasant Grove & Rio Bravo Relo	NOC: AL 7768-E	2025-11-26	Filed and Under Review	TBD	Engineering
T.0000434	KINGSBURG CORCORAN 1 AND 2 115KV NERC	NOC: AL 7769-E	2025-12-02	Filed and Under Review	TBD	Engineering
T.0009652	Eden Landing Eastshore Grant	NOC	Expected 2026 Q1	TBD	TBD	Engineering
T.0004279	Salinas-Laureles 60kV:RELO:S_Davis_Rd	NOC	Expected 2026 Q1	TBD	TBD	Engineering
T.0008740	Tulucay-Napa No. 2 60kV Pole Relo	NOC	Expected 2026 Q1	TBD	TBD	Engineering
T.0009641	Cortina #1 60 kV Line Reconductoring	NOC	Expected 2026 Q1	TBD	TBD	Engineering
T.0008749	Weber-Mormon Jct Reconductor	NOC	Expected 2026 Q1	TBD	TBD	Engineering
T.0004271	Morgan Hill-Watsonville 115kV Area Reinf	NOC	Expected 2026 Q1	TBD	TBD	Engineering
T.0000156	Wheeler Ridge Junction Substation	PTC	Expected 2026 Q1	TBD	TBD	Engineering
T.0010903	L0015 Rue Ferrari Large Load	NOC (5814132) NOC (5815152)	Expected 2026 Q1 (5815152) Expected 2027 Q1 (5814132)	TBD	TBD	Engineering
T.0010100	Applied Materials Arques Load Increase	NOC	Expected 2026 Q2	TBD	TBD	Engineering
T.0010873	LC24-2 Lockheed #1 Sub TLine Cust Sub	NOC	Expected 2026 Q2	TBD	TBD	Engineering
T.0009607	Tulucay-Napa 60kV Line Reconductoring	NOC	Expected 2026 Q2	TBD	TBD	Engineering
T.0008334	Jefferson-Stanford 60kV Rep Pole 06_157	NOC	Expected 2026 Q2	TBD	TBD	Engineering
T.0010604	Jefferson-Stanford Cable Replacement	NOC	Expected 2026 Q3	TBD	TBD	Engineering
T.0009603	Garberville 60kV Area Reinforcement	NOC	Expected 2026 Q3	TBD	TBD	Engineering
T.0004113	Midway-Temblor 115kV Recon & Voltage Sup	NOC	Expected 2026 Q3	TBD	TBD	Engineering

T.0000159 - Egbert 230kV Switching Station

Project Details

County	San Mateo
Year of BC Approval	2016
CAISO Year	2015
CPUC Filling Type	CPCN: A.17-12-021
CPUC Status	Approved
CPUC Status Year	2020
Total Actuals to Date	$ 84,607
Current Projected Cost	$ 236,376
In Service Date	12/11/2029
Project Status	Engineering
Original In-Service Date	12/1/2021
Reason for Change in ISD	Prioritization

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$1,309	**$84,607**	$959	$23,800	$72,915	$37,209	$16,676	$182	$25	**$236,376**
1%		0%	10%	31%	16%	7%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
REROUTE JEFFERSON_MARTIN 230KV LINE	Reliability	T-Line Capacity	230	NA	5767217	60	6/8/2029	$ 31,772	$ 75,356
LOOP EMBARCADERO & MARTIN	Reliability	T-Line Capacity	230	NA	5767213	60	9/14/2029	$ 3,923	$ 39,460
EGBERT T-LINE - VISITACION AVE EASEMENT	Reliability	T-Line Capacity	230	NA	5551310	60	3/31/2026	$ 24	$ 864
MARTIN BUS EXT: SF RAS MODIFICATIONS @ C	Reliability	Substation Reliability	NA	230 kV	5767648	61	12/11/2029	$ 24	$ 3,586
MARTIN BUS EXT: EMBARCADERO PROT UPGRADE	Reliability	Substation Reliability	NA	230 kV	5767647	61	3/7/2029	$ 115	$ 2,668
MARTIN BUS EXT: JEFFERSON PROT UPGRADES	Reliability	Substation Reliability	NA	230 kV	5767646	61	4/4/2029	$ 81	$ 3,594
MARTIN BUS EXT: MARTIN SUB PROT UPGRADES	Reliability	Substation Reliability	NA	230 kV	5767645	61	5/16/2028	$ 338	$ 3,439
Egbert Greenfield Substation	Reliability	Substation Capacity	NA	230 kV	5767214	61	8/1/2029	$ 48,331	$ 107,410

Project Description

The Martin 230 kV Bus Extension project will: Construct a new 230 kV switching station near, but not adjacent to, Martin Substation. Relocate voltage control and power flow limiting equipment associated with the Jefferson-Martin and Martin-Embarcadero Cables from Martin, if necessary, to the new switching station. Completion of the Martin Bus Extension project will improve service reliability and system resiliency in serving customers in San Francisco and northern San Mateo County.

Entity Initiating Project: CAISO
Distribution Components: N/A

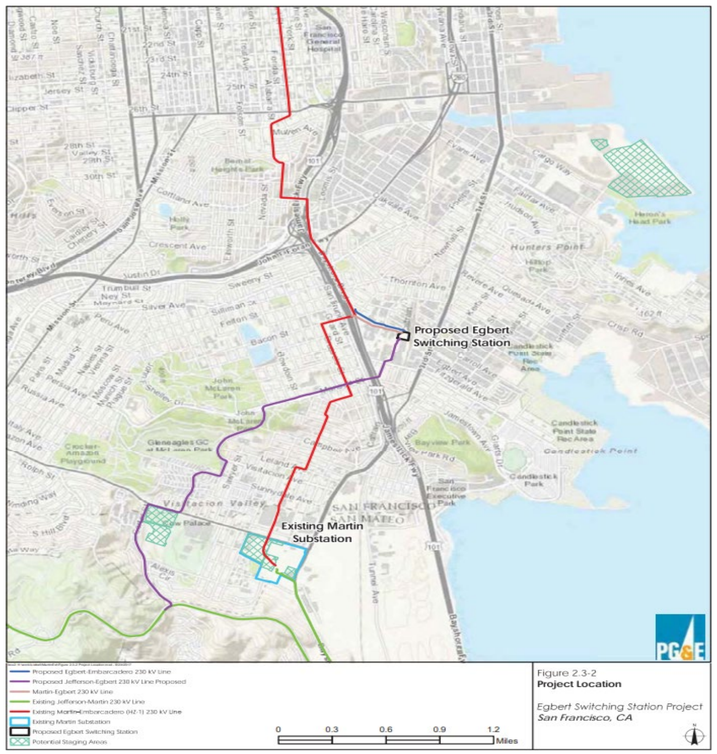
Project Need

The project need was first identified in 2013, when the CAISO initiated a risk and vulnerability assessment of the electric transmission system serving San Francisco and northern San Mateo County. The proposed Egbert 230kV Switching Station project will improve electric system resiliency and resolve reliability concerns for a devastating or catastrophic event at Martin Substation by rearranging existing 230kV transmission circuits to create a separate transmission path into San Francisco that bypasses Martin Substation. In addition to providing another power source into San Francisco, it will also keep the San Francisco alternating current transmission system energized, which will enable TBC to deliver up to 400 MW of power into the City.

Project & Permitting Status Updates

Construction Start: 05/14/27
CPUC Date Filed: 12/28/17

Notice to Proceed (NTP) request was submitted July and August 2021. NTP 1 was authorized October 2021. PG&E is continuing to work with the property owners to acquire easements. Egbert 230kV Switching Station is currently internally On Hold.



*Note: All dollar figures represented in the 000s

T.0000597 - VIERRA 115 KV REINFORCEMENT

Project Details

County	San Joaquin
Year of BC Approval	2018
CAISO Year	2011
CPUC Filling Type	PTC: A.18-06-004
CPUC Status	Approved
CPUC Status Year	2021
Total Actuals to Date	$ 58,515
Current Projected Cost	$ 65,498
In Service Date	9/15/2026
Project Status	Construction
Original In-Service Date	5/1/2014
Reason for Change in ISD	Prioritization

Actual 2025	Actual ITD	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected EAC
$15,748	**$58,515**	$1,341	$5,490	$152	$0	$0	$0	$0	**$65,498**
24%		2%	8%	0%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
VIERRA 115KV TLINE RECONFIGURATION PH 2	Reliability	System Design Upgrade	115	NA	5805561	60	11/20/2025	$ 221	$ 979
VIERRA 115 KV TLINE REINFORCEMENT PH 1	Reliability	System Design Upgrade	115	NA	5746744	60	2/23/2025	$ 11,854	$ 11,889
VIERRA ACQUIRE PERM LAND RIGHTS	Reliability	System Design Upgrade	NA	NA	5527666	60	NA	$ 1,663	$ 1,663
VIERRA 115 KV BAAH PHASE 2	Reliability	Bus Upgrade	NA	115 kV	5805478	61	9/15/2026	$ 3,909	$ 7,381
NV_VIERRA 115 KV BAAH	Reliability	Bus Upgrade	NA	115 kV	5746745	61	5/20/2025	$ 21,970	$ 22,347
RIPON: UPGRADE VIERRA REMOTE END	Enhancements	MPAC	NA	115 kV	5777421	67	2/18/2026	$ 259	$ 424
HOWLAND: UPGRADE VIERRA REMOTE END	Enhancements	MPAC	NA	115 kV	5777419	67	12/26/2025	$ 2,979	$ 3,287
MANTECA: UPGRADE VIERRA REMOTE END	Enhancements	MPAC	NA	115 kV	5777418	67	6/29/2026	$ 1,079	$ 1,554
TRACY: UPGRADE VIERRA REMOTE END	Enhancements	MPAC	NA	115 kV	5777397	67	4/3/2026	$ 1,565	$ 1,747
KASSON: UPGRADE VIERRA REMOTE END	Enhancements	MPAC	NA	115 kV	5777396	67	5/19/2026	$ 1,330	$ 1,540
TESLA: UPGRADE VIERRA REMOTE END	Enhancements	MPAC	NA	115 kV	5777395	67	5/6/2026	$ 369	$ 563
VIERRA BAAH CONTROL BUILDING	Enhancements	MPAC	NA	115 kV	5777394	67	5/20/2025	$ 11,315	$ 12,124

Project Description

Loop the Tesla-Stockton Co-Gen Junction 115kV Power Line into Vierra Substation, convert the Vierra 115kV bus into a 4-bay breaker-and-a-half (BAAH) bus configuration, add a Howland Road Co-Gen Radial Feed, install a 115kV Sustainable Modular Protection (SMP) / Modular Protection Automation and Controls (MPAC), and install battery buildings.

Entity Initiating Project: CAISO
Distribution Components: Distribution Relocation

Project Need

The Vierra 115kV Reinforcement project is required to meet NERC Reliability Standards and was approved by the California Independent System Operator (CAISO) in 2011. The Vierra 115kV Reinforcement project reduces these risks by increasing system resiliency with the addition of the fifth transmission path in the Tesla 115kV system, increasing reliability with a more reliable bus configuration and also reducing the transmission line exposure by sectionalizing the Tesla-Stockton Cogen Junction 115kV Power Line by looping it into the Vierra Substation.

Project & Permitting Status Updates

Construction Start: 05/21/24
CPUC Date Filed: 06/15/18

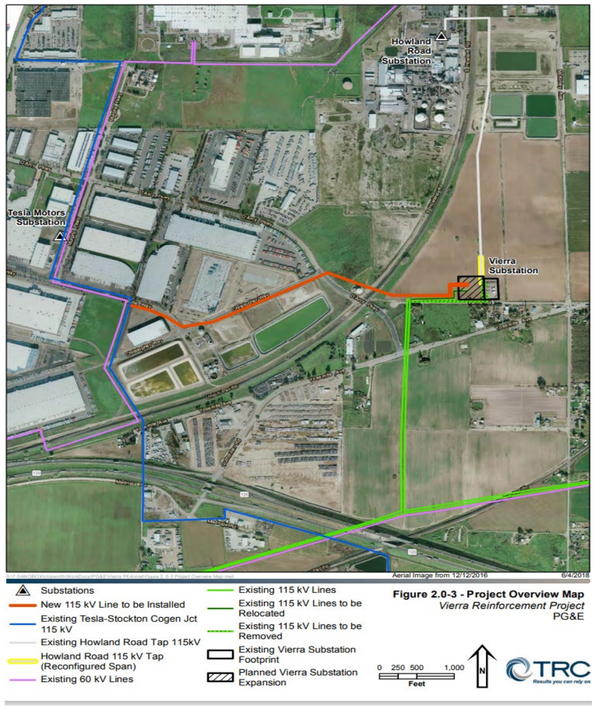


Figure 2.0-3 - Project Overview Map
Vierra Reinforcement Project
PG&E

*Note: All dollar figures represented in the 000s

T.0000154 - Estrella 230 kV Transmission Substation

Project Details

County	San Luis Obispo
Year of BC Approval	2015
CAISO Year	2014
CPUC Filling Type	PTC: A.17-01-023
CPUC Status	Approved
CPUC Status Year	2024
Total Actuals to Date	$ 49,305
Current Projected Cost	$ 172,808
In Service Date	3/30/2029
Project Status	Construction
Original In-Service Date	5/1/2019
Reason for Change in ISD	Prioritization

Project Description

Construct and own the new Estrella 230/70/21 kV Substation and associated transmission line work as defined by the CAISO's Transmission Plan. Connecting the new Estrella Substation to the 230 kV and 70 kV systems will improve capacity and service reliability to PG&E customers in the Paso Robles area. This project is part of the Utility's overall program to upgrade its substation design to meet today's customer service reliability expectations.

Entity Initiating Project: CAISO
Distribution Components: Distribution Substation

Project Need

Completion of this project will mitigate outage risks associated with thermal overloads and voltage concerns across the planning area. The project will also support the Paso Robles Substation, which has reached maximum capacity, by connecting a new substation and downstream assets to an additional, reliable source from the Morro Bay-Gates 230 kV transmission line. Construction/reconductoring of a 70 kV power line that connects the new substation to Paso Robles substation.

Project & Permitting Status Updates

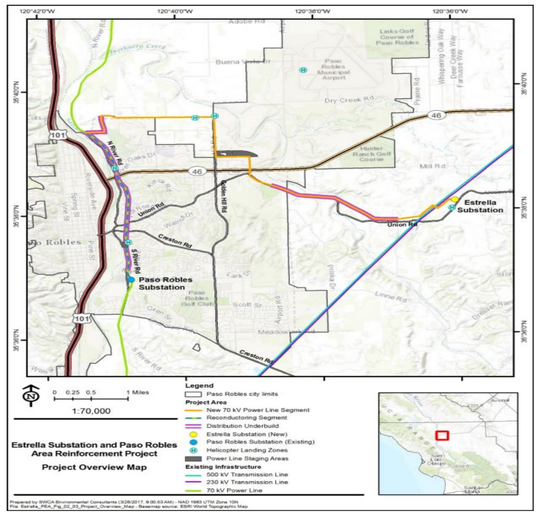
Construction Start: 11/13/25
CPUC Date Filed: 01/25/17

NTP received 7/24/25.

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$8,496	**$49,305**	$4,086	$27,698	$38,933	$34,208	$18,545	$32	$0	**$172,808**
5%		2%	16%	23%	20%	11%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
REC SAN MIGUEL-PASO ROBLES 70KV PH.2 ENG	Reliability	Line Reconductoring	70	NA	5810240	60	1/13/2027	$ 256	$ 3,482
UNION-SAN MIGUEL_PASO ROBLES 70KV - ENG	Reliability	T-Line Capacity	70	NA	5806384	60	3/30/2029	$ 5,867	$ 21,787
REC SAN MIGUEL-PASO ROBLES 70KV PH.2 EST	Reliability	Line Reconductoring	70	NA	5805505	60	2/26/2027	$ 4,320	$ 14,094
UNION-SAN MIGUEL_PASO ROBLES 70KV - EST	Reliability	New T-Line	70	NA	5771719	60	3/30/2029	$ 11,519	$ 39,406
MORRO BAY - CAL FLATS 230KV LINE SHOOFLY	Reliability	T-Line Capacity	230	NA	5771718	60	5/10/2027	$ 121	$ 968
RECOND. SAN MIGUEL-PASO ROBLES 70KV PH.1	Reliability	New T-Line	70	NA	5767231	60	4/22/2026	$ 9,584	$ 17,527
ESTRELLA_CPUC LIC/PER	Reliability	T-Line Capacity	230 | 70	NA	5767230	60	12/30/2026	$ 1,505	$ 2,595
MORRO BAY-CAL FLATS 230KV INTERCONNECTIO	Reliability	New T-Line	230	NA	5767208	60	5/26/2028	$ 1,402	$ 9,056
ROW UNION-SAN MIGUEL_PASO ROBLES 70KV	Reliability	New T-Line	70	NA	5554011	60	NA	$ 244	$ 3,954
ROW San Miguel-Paso Robles 70kV Ph. 2	Reliability	New T-Line	70	NA	5554010	60	NA	$ 29	$ 1,173
ROW San Miguel-Paso Robles 70kV Ph.1	Reliability	New T-Line	70	NA	5554009	60	NA	$ 455	$ 515
TEMPLETON SUB-INSTALL REVERSE POWER RELA	Reliability	Substation Capacity	NA	230 kV	5805698	61	12/29/2027	$ 26	$ 1,414
TERMINAL UPGRADES PASO ROBLES SUB	Reliability	New T-Line	NA	70 kV	5805506	61	4/30/2026	$ 267	$ 1,066
MORRO BAY: UPGRADE 230KV RELAY	Reliability	Substation Reliability	NA	230 kV	5771722	61	10/11/2027	$ 46	$ 2,089
CALIFORNIA FLATS: UPGRADE 230KV RELAY	Reliability	Substation Reliability	NA	230 kV	5771721	61	10/8/2027	$ 53	$ 2,431
UNION 70KV SUBSTATION	Reliability	New Substation	NA	70 kV	5767207	61	7/20/2028	$ 13,210	$ 50,444
Land Purchase for 70KV Substation	Reliability	New T-Line	NA	NA	5553459	61	NA	$ 403	$ 808



*Note: All dollar figures represented in the 000s

T.0009169 - Metcalf HVDC Interconnection Project

Project Details

County	Santa Clara
Year of BC Approval	2024
CAISO Year	2026
CPUC Filling Type	NOC: AL 7391-E
CPUC Status	Approved
CPUC Status Year	2024
Total Actuals to Date	$ 50,496
Current Projected Cost	$ 520,107
In Service Date	6/28/2030
Project Status	Engineering
Original In-Service Date	6/1/2030
Reason for Change in ISD	NA

Project Description

The scope of the Metcalf – San Jose B HVDC project is modified as follows:
a. Build a 1,000 MW HVDC link between Metcalf 500 kV and San Jose B 230 kV substation (LS Power)
b. The voltage at the AC side of the San Jose B converter station is changed from 115 kV to 230 kV.
c. A 230 kV switchyard and a 230/115 kV transformer will be required at San Jose B.

Entity Initiating Project: CAISO
Distribution Components: Distribution Underbuild

Project Need

The CAISO awarded a third party (LS Power) the two new transmission projects to construct high-voltage direct current (HVDC) lines in the South Bay area to alleviate potential grid overloads.

Project & Permitting Status Updates

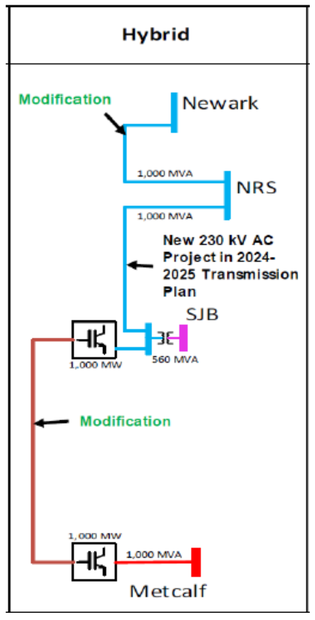
Construction Start: 12/24/25
CPUC Date Filed: 10/10/24

2/24/25 - NOC was protested. The AL was suspended while we work out a settlement with one of the protests. Protest lifted and approval backdated to 2024

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$33,766	**$50,496**	$11,758	$105,562	$127,607	$107,495	$83,386	$32,529	$1,277	**$520,107**
6%		2%	20%	25%	21%	16%	6%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
TLSUP_METCALF LS POWER FIBER RELOCATION	Reliability	T-Line Capacity	NA	NA	5810185	10	6/17/2030	$ 37	$ 37
TLSUP:SAN JOSE B SUB RELOCATE MAINL P1	Reliability	T-Line Capacity	NA	NA	5810781	6	1/8/2026	$ 3,851	$ 7,083
TLSUP_SAN JOSE B SUB RELOC MAINLINE PH2	Reliability	T-Line Capacity	NA	NA	5810184	6	7/29/2026	$ 490	$ 5,733
SAN JOSE B - HVDC CONNECTION - TLINE	Reliability	T-Line Capacity	115	NA	5806625	60	12/30/2027	$ 171	$ 7,828
METCALF -MORGAN HILL SECURITY FENCE	Reliability	Substation Capacity	NA	NA	5800025	61	5/5/2026	$ 776	$ 2,128
SAN JOSE B 230KV GIS	Reliability	Bus Upgrade	NA	230 kV	5800024	61	6/28/2030	$ 108	$ 169,678
SAN JOSE B - HVDC - SAN JOSE A RE	Reliability	Substation Capacity	NA	115 kV	5799024	61	12/30/2027	$ 84	$ 1,690
SAN JOSE B - HVDC - TRIMBLE RE	Reliability	Substation Capacity	NA	115 kV	5807739	61	12/29/2027	$ 52	$ 2,187
SAN JOSE B - HVDC CONNECTION	Reliability	Substation Capacity	NA	115 kV	5804789	61	12/30/2027	$ 24,860	$ 217,673
METCALF - 500KV HVDC CONNECTION	Reliability	Substation Capacity	NA	500 kV	5547567	61	12/30/2027	$ 3,167	$ 71,512
METCALF GC YARD RELOCATION LAND ACQUISIT	Reliability	Substation Capacity	NA	NA	5547486	61	12/30/2027	$ 16,876	$ 28,876
SAN JOSE B HVDC LAND ACQ	Reliability	Substation Capacity	NA	NA	5559139	61	NA	$-	$ 4,800
SAN JOSE B - HVDC - SOUTH TRANSITION RE	Reliability	Substation Capacity	NA	115 kV	5555161	61	12/30/2027	$ 11	$ 463
SAN JOSE B - HVDC - NORTH TRANSITION RE	Reliability	Substation Capacity	NA	115 kV	5555160	61	12/30/2027	$ 14	$ 417



*Note: All dollar figures represented in the 000s

T.0007676 - AWS Gilroy 115kV Interconnection

Project Details

County	Santa Clara
Year of BC Approval	TBD
CAISO Year	NA
CPUC Filling Type	NOC: AL 7687-E
CPUC Status	Approved
CPUC Status Year	2025
Total Actuals to Date	$ 4,983
Current Projected Cost	$ 49,105
In Service Date	1/29/2027
Project Status	Engineering
Original In-Service Date	10/14/2026
Reason for Change in ISD	NA

Project Description

Construct new switching station and install additional conductor on the Morgan Hill-Llagas 115 kV tower line to a new switching station at the customer site.

Install two (2) 115kV bay BAAH Switching station on ADS property and include space for future expansion up to 4 bays
Install protective relaying for the new breakers/lines
Upgrade remote ends(ADS, Morgan Hill & Llagas substations) with the necessary protective relaying/communication/SCADA
Install 0.16 miles of Double Circuit Transmission line from Tower 019/123 on the Morgan Hill-Llagas 115 kV tower line to a new switching station

Entity Initiating Project: Third Party
Distribution Components: Fiber

Project Need

The Interconnection Customer (IC) has requested PG&E to serve the proposed data center.The IC plans to build two datacenters and a dedicated customer power facility capable of receiving power starting with 30 MW and up to 96MW at 115 kV.

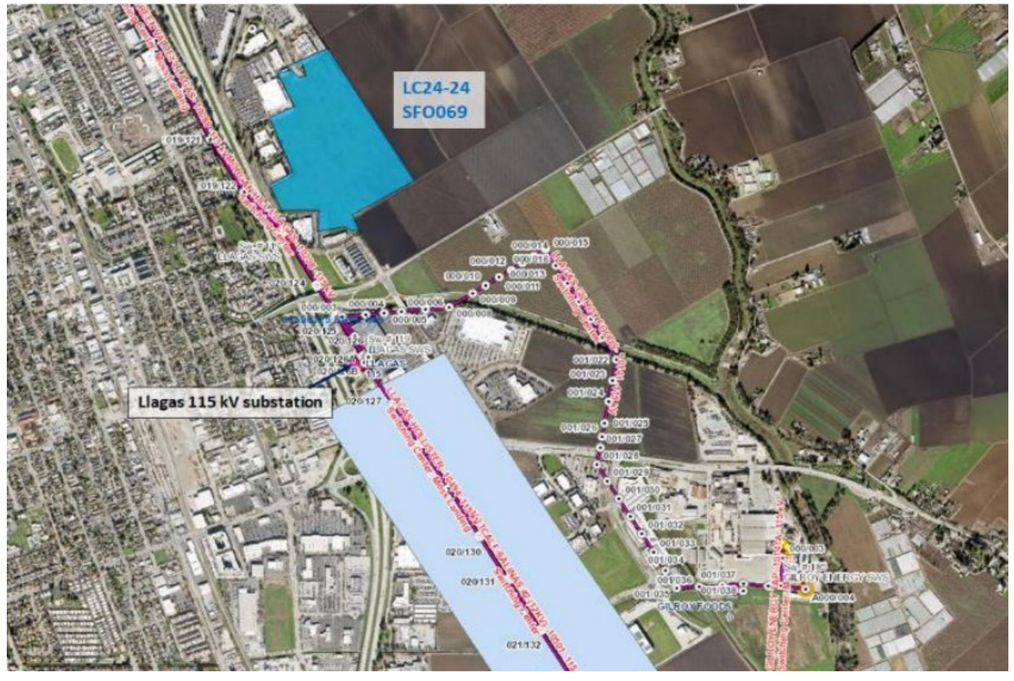
Project & Permitting Status Updates

Construction Start: 11/24/25
CPUC Date Filed: 08/29/25

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$3,589	**$4,983**	$675	$18,445	$25,490	$0	$0	$0	$0	**$49,105**
7%		1%	38%	52%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
EP L005 AWS MORGAN HILL FIBER INSTALL	WRO	Load Interconnection	NA	NA	5557259	10	12/23/2025	$ 82	$ 82
EP L005 AWS LLAGAS FIBER INSTALL	WRO	Load Interconnection	NA	NA	5557240	10	12/31/2026	$ 93	$ 675
AWS SFO69: AWS REMOTE END	WRO	Load Interconnection	NA	115 kV	5810641	82	NA	$ 2	$ 2
AWS SFO69: DIRECT ASSIGNMENT	WRO	Load Interconnection	NA	115 kV	5800026	82	1/28/2027	$ 287	$ 450
AWS SFO69: LLAGAS REMOTE END	WRO	Load Interconnection	NA	115 kV	5814793	82	12/1/2026	$ 1,386	$ 6,512
AWS SFO69: MORGAN HILL RE	WRO	Load Interconnection	NA	115 kV	5814471	82	12/16/2026	$ 822	$ 5,513
AWS SFO69: GARLIC 115KV SS	WRO	Load Interconnection	NA	115 kV	5814470	82	1/28/2027	$ 958	$ 28,399
AWS SFO69: ARROYO 115KV T-LINES	WRO	Load Interconnection	115	NA	5560042	82	10/14/2026	$ 34	$ 34
AWS SFO69: METERING	WRO	Load Interconnection	NA	115 kV	5557503	82	1/29/2027	$ 186	$ 808
AWS SFO69: MH-LLAGAS 115KV LOOP	WRO	Load Interconnection	115	NA	5814131	82	1/28/2027	$ 679	$ 5,115
AWS GILROY: LAND ACQUISITION	WRO	Load Interconnection	NA	115 kV	5547486	82	NA	$ 454	$ 1,516



*Note: All dollar figures represented in the 000s

T.0009194 - Manning New 500kV Sub Connection

Project Details

County		Fresno
Year of BC Approval		2024
CAISO Year		2022
CPUC Filling Type		NOC: AL 7706-E
CPUC Status		Approved
CPUC Status Year		2025
Total Actuals to Date	$	14,311
Current Projected Cost	$	247,175
In Service Date		6/1/2028
Project Status		Engineering
Original In-Service Date		1/1/2028
Reason for Change in ISD		NA

Project Description

PG&E scope of work: loop the Los Banos – Gates #1, and Los Banos – Midway # 2 500kV lines into the new 500kV Manning substation; loop the two Panoche – Tranquility 230kV lines; reconductor the two Manning – Tranquility 230kV lines; modify the Gates 500kV Series Capacitor Banks 1&2 reactance; upgrading the Tranquility 230kV terminals; upgrade Panoche 230kV bus section D to BAAH and replace overstressed breakers in bus section E.

Entity Initiating Project: CAISO
Distribution Components: N/A

Project Need

This project will support connection of a new 500kV substation between Los Banos and Gates substations to the PG&E electric system. The new 500kV substation, to be installed by LS Power, is needed to address overloads on the Borden-Storey 230kV lines and allow for the advancement of renewable generation within the Westlands / San Joaquin area. This project will support LS Power's new 500kV substation connection to the PG&E transmission system

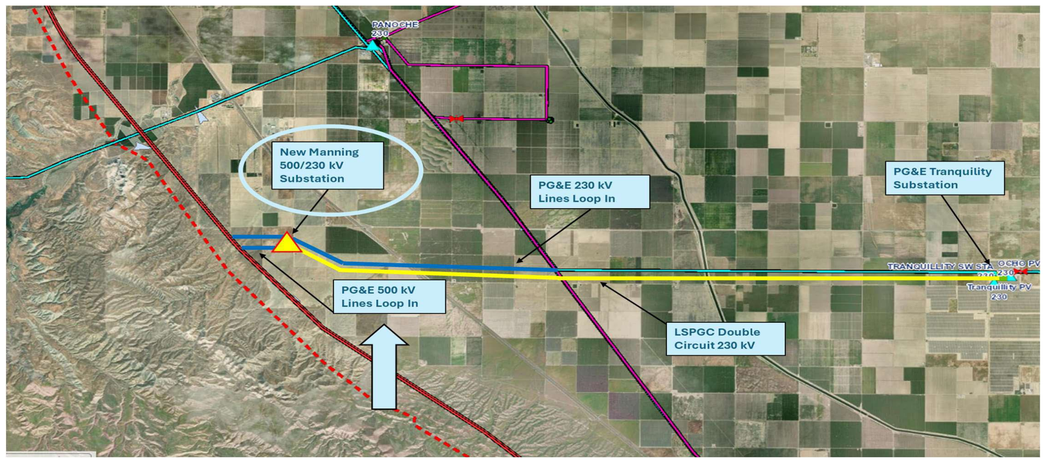
Project & Permitting Status Updates

Construction Start: 03/16/26
CPUC Date Filed: 09/24/25

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$6,950	**$14,311**	$1,770	$110,969	$99,992	$20,130	$0	$0	$0	**$247,175**
3%		1%	45%	40%	8%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
PANOCHE-EXCELSIOR SW STA #1 & #2 115KV	Policy	T-Line Capacity	115	NA	5809641	60	5/31/2028	$ 132	$ 2,562
MANNING PANOCHE SHOOFLY	Policy	T-Line Capacity	500	NA	5809640	60	6/1/2028	$ 220	$ 2,338
MANNING GATES-PANOCHE #1 & #2 230KV	Policy	T-Line Capacity	500	NA	5809639	60	6/1/2028	$ 241	$ 5,422
MANNING TRANQ POCO MAN-TRANQ#3	Policy	T-Line Capacity	500	NA	5809623	60	5/31/2028	$ 68	$ 1,628
RECONDUCTOR 230KV MANNING -TRANQUILITY#1	Policy	T-Line Capacity	230	NA	5804811	60	5/31/2028	$ 1,339	$ 54,833
LOOP 2 PANOCHE-TRANQ LINES IN MANNING	Policy	T-Line Capacity	230	NA	5804801	60	5/31/2028	$ 747	$ 17,741
LOOP LOS BAN-GATES#1 & LOS BANO-MID#2	Policy	T-Line Capacity	500	NA	5804800	60	6/1/2028	$ 905	$ 27,949
MANNING SUB_LAND RIGHTS	Policy	Substation Capacity	NA	NA	5560999	60	2/2/2027	$ 127	$ 4,537
MANNING SUB - LAS AGUILAS SW SUB	Policy	Substation Capacity	NA	500 kV	5809978	61	4/28/2028	$ 278	$ 1,890
MANNING SUB: MANNING TELECOM & TESTING	Policy	Substation Capacity	NA	500 kV	5809028	61	5/26/2028	$ 813	$ 10,058
MANNING: PANOCHE SUB REPLACE CB 102, 132	Policy	Bus Upgrade	NA	230 kV	5808684	61	4/28/2028	$ 149	$ 6,007
MANNING SUB: GATES PROTECTION UPGRADE	Policy	Substation Capacity	NA	500 kV	5804878	61	4/28/2028	$ 572	$ 2,909
MANNING SUB: TRANQUILITY BAAH	Policy	New Substation	NA	500 kV	5804813	61	4/28/2028	$ 1,676	$ 21,517
MANNING SUB: PANOCHE BAAH	Policy	Bus Upgrade	NA	500 kV	5804806	61	4/28/2028	$ 6,218	$ 80,378
MANNING SUB: MIDWAY PROTECTION UPGRADE	Policy	Substation Capacity	NA	500 kV	5804805	61	4/30/2027	$ 289	$ 1,897
MANNING SUB: LOS BANOS PROTECTION UPGRAD	Policy	Substation Capacity	NA	500 kV	5804804	61	4/28/2028	$ 538	$ 5,508



*Note: All dollar figures represented in the 000s

T.0010475 - BORDEN-COPPERMINE 70KV POLE RELO AV12

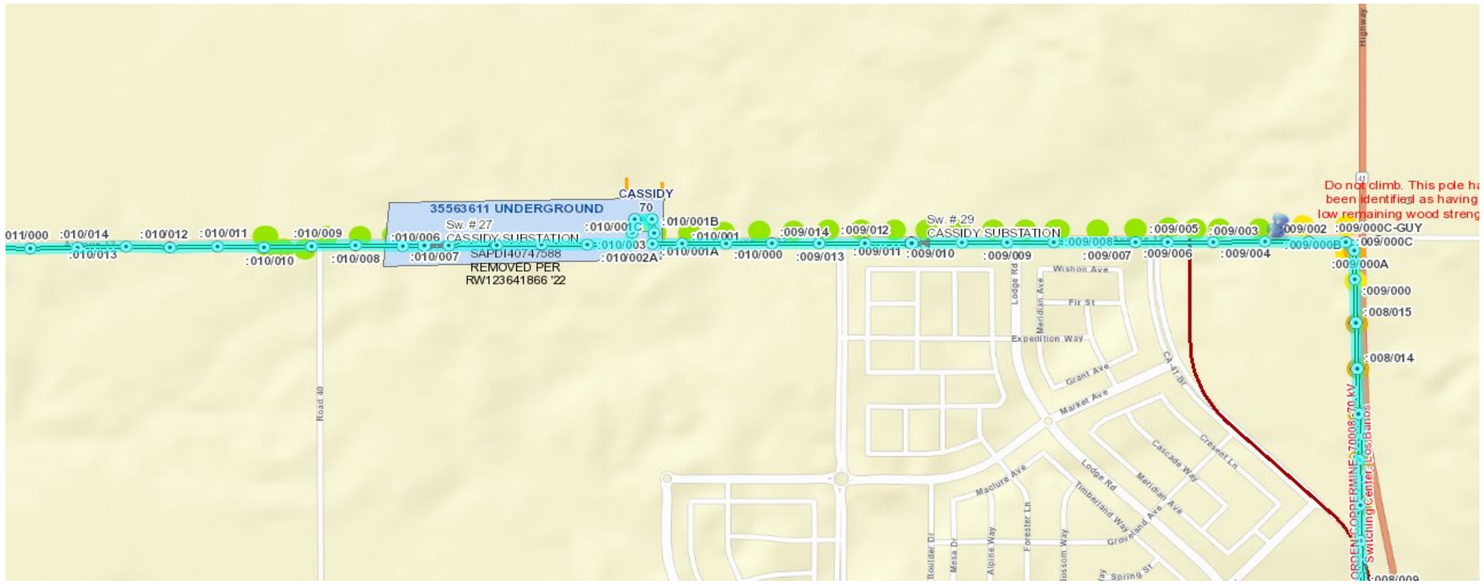
Project Details

County		Fresno
Year of BC Approval		2025
CAISO Year		NA
CPUC Filling Type		NOC: AL-7703-E
CPUC Status		Approved
CPUC Status Year		2025
Total Actuals to Date	$	1,152
Current Projected Cost	$	2,076
In Service Date		2/9/2026
Project Status		Engineering
Original In-Service Date		12/31/2025
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$992	**$1,152**	$769	$155	$0	$0	$0	$0	$0	**$2,076**
48%		37%	7%	0%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
BORDEN-COPPERMINE 70KV POLE RELO AV12	WRO	Facility Relocation	70	NA	5556282	82	2/9/2026	$ 1,152	$ 2,076



Project Description

The scope will include relocating 34 wood poles on the Borden-Coppermine 70kV Transmission Line.

Entity Initiating Project: Third Party
Distribution Components: N/A

Project Need

The Borden-Coppermine 70kV Pole Relo AV12 project is located on Avenue 12, from Riverwalk Blvd to Road 39-1/2. This project plans to relocate existing poles on the Borden-Coppermine 70kV line at the request of the County of Madera as a part of the Avenue 12 widening effort.

Project & Permitting Status Updates

Construction Start: 01/05/26
CPUC Date Filed: 09/24/25

*Note: All dollar figures represented in the 000s

T.0008743 - Riverbank-Ripon - Line Reconductor

Project Details

County		Calaveras
Year of BC Approval		2025
CAISO Year		2022
CPUC Filling Type		NOC: AL 7732-E
CPUC Status		Approved
CPUC Status Year		2025
Total Actuals to Date	$	1,323
Current Projected Cost	$	13,338
In Service Date		9/2/2027
Project Status		Engineering
Original In-Service Date		5/1/2028
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$917	**$1,323**	$694	$11,113	$210	$0	$0	$0	$0	**$13,338**
7%		5%	83%	2%	0%	0%	0%	0%	

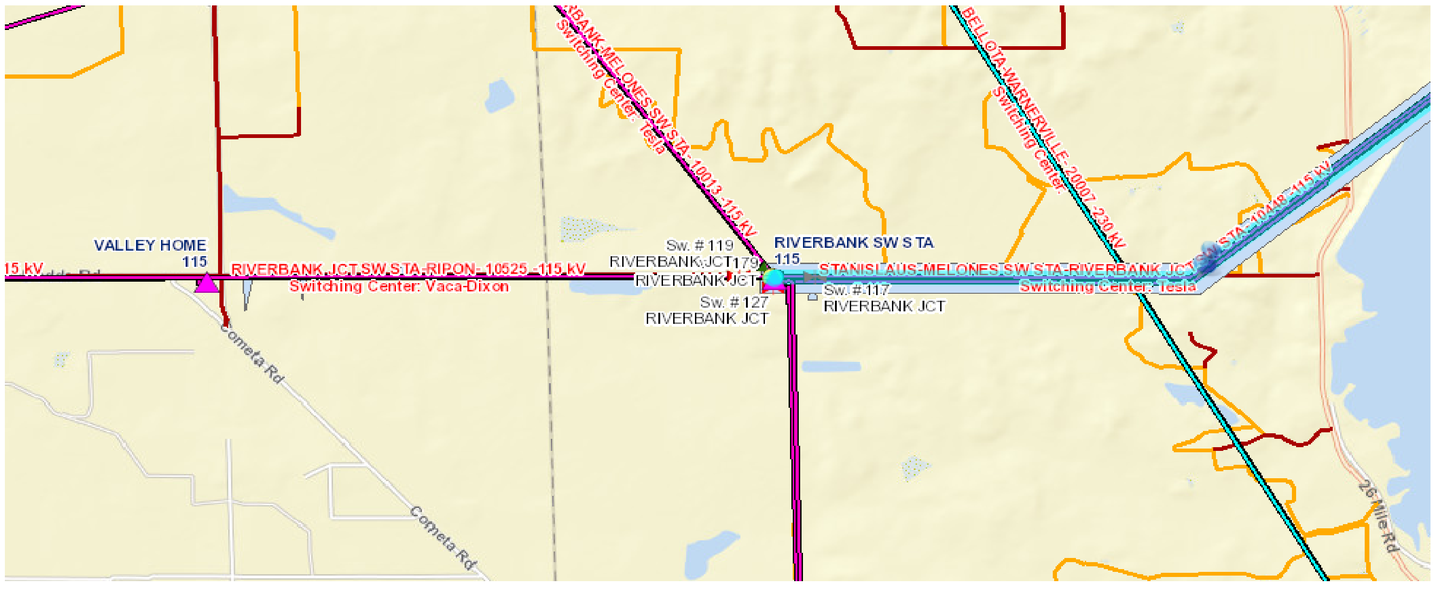
Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
STANISLAUS-MELONES SW STA-RIVERBANK JCT	Reliability	Line Reconductoring	115	NA	5803073	60	12/15/2026	$ 435	$ 5,500
RIVERBANK-RIPON - LINE RECONDUCTOR	Reliability	Line Reconductoring	115	NA	5803072	60	10/28/2026	$ 883	$ 7,619
STANISLAUS MANTECA 2 035 212-233 RECOND	Reliability	Targeted Line Reliability	115	NA	5813401	94	9/2/2027	$ 5	$ 220

Project Description

Reconductor 1.3 circuit miles between Riverbank Jct. SW STA and Structure 035/212 of the Stanislaus – Melones SW STA – Riverbank Jct. SW STA 115 kV Line. Reconductor 1.8 circuit miles between Riverbank SW STA and Valley Home Tap (038/233) of the Riverbank SW STA – Ripon 115 kV Line.

Entity Initiating Project: CAISO
Distribution Components: N/A



Project Need

This project will increase operating flexibility, load serving capability, customer reliability, eliminate contingency overloads, and harden the transmission system

Project & Permitting Status Updates

Construction Start: 04/21/26
CPUC Date Filed: 10/15/25

*Note: All dollar figures represented in the 000s

T.0009721 - COLGATE-SMARTVILLE COND SEG RPL

Project Details

County		Nevada
Year of BC Approval		TBD
CAISO Year		NA
CPUC Filling Type		NOC: AL 7735-E
CPUC Status		Approved
CPUC Status Year		2025
Total Actuals to Date	$	490
Current Projected Cost	$	4,176
In Service Date		5/5/2026
Project Status		Engineering
Original In-Service Date		TBD
Reason for Change in ISD		NA

Project Description

Reconductor 4/0-7 Cu conductor from Colgate substation to 000/002, 000/008 to 001/022, 003/038 to 005/062.
Length – approximately 4 circuit miles.

Entity Initiating Project: PG&E
Distribution Components: N/A

Project Need

The program will replace all associated insulators and hardware where appropriate and coordinate all tag work to minimize clearance time.

Project & Permitting Status Updates

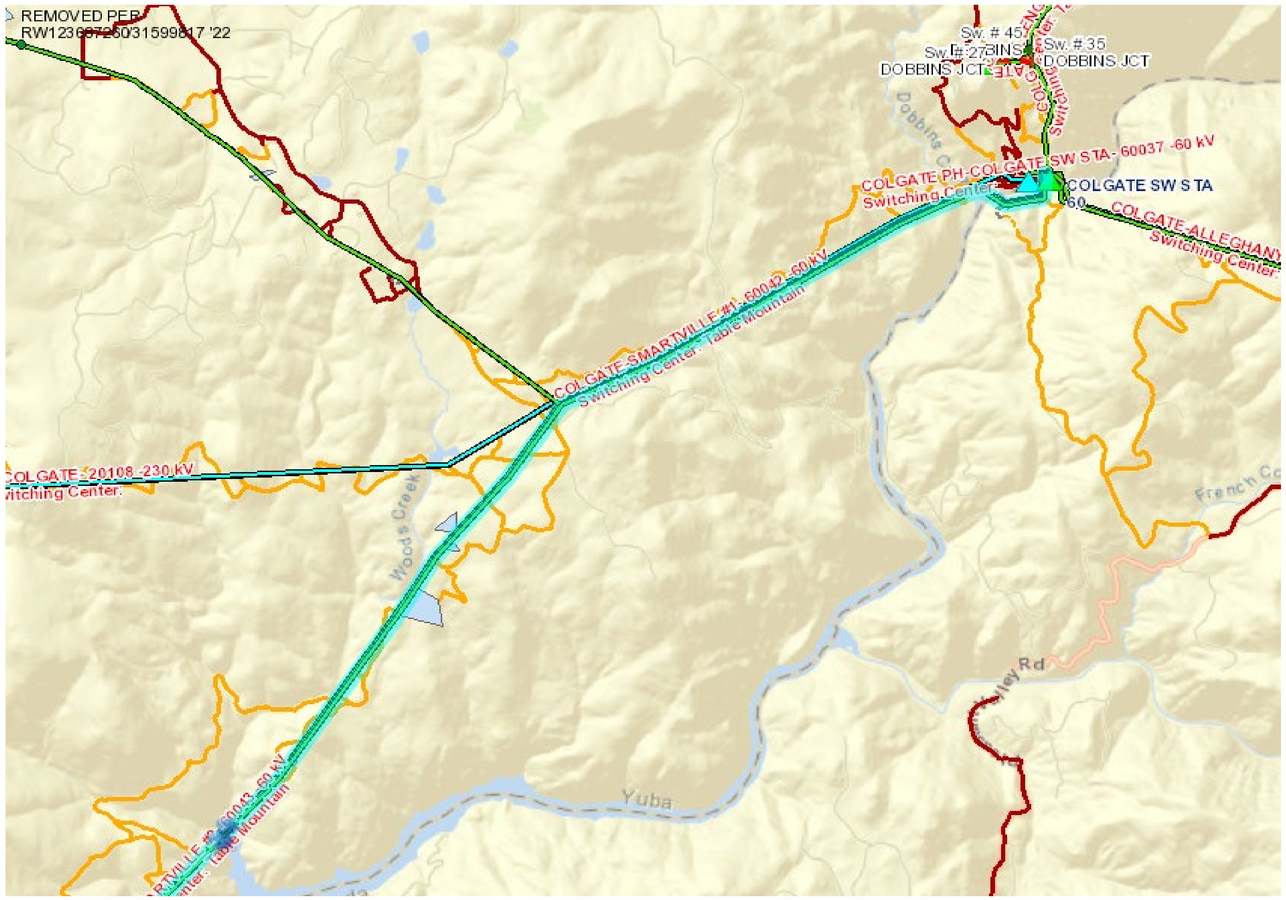
Construction Start: 03/26/26
CPUC Date Filed: 10/17/25

NOC mistakenly filed under T.0009920

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$363	**$490**	$123	$3,562	$0	$0	$0	$0	$0	**$4,176**
9%		3%	85%	0%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
COLGATE-SMARTVILLE COND SEG RPL	Asset Condition	Replace Conductor	60	NA	5555243	93	5/5/2026	$ 490	$ 4,176



*Note: All dollar figures represented in the 000s

T.0000007 - Vaca Dixon Area Reinforcement Project

Project Details

County	Solano
Year of BC Approval	2024
CAISO Year	2011
CPUC Filling Type	NOC: AL 7542-E PTC: A.24-06-008
CPUC Status	Approved Filed and Under Review
CPUC Status Year	2025 | TBD
Total Actuals to Date	$ 9,506
Current Projected Cost	$ 42,553
In Service Date	6/30/2028
Project Status	Construction
Original In-Service Date	12/1/2023
Reason for Change in ISD	Prioritization

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$4,530	**$9,506**	$1,088	$19,785	$7,501	$3,901	$773	$0	$0	**$42,553**
11%		3%	46%	18%	9%	2%	0%	0%	

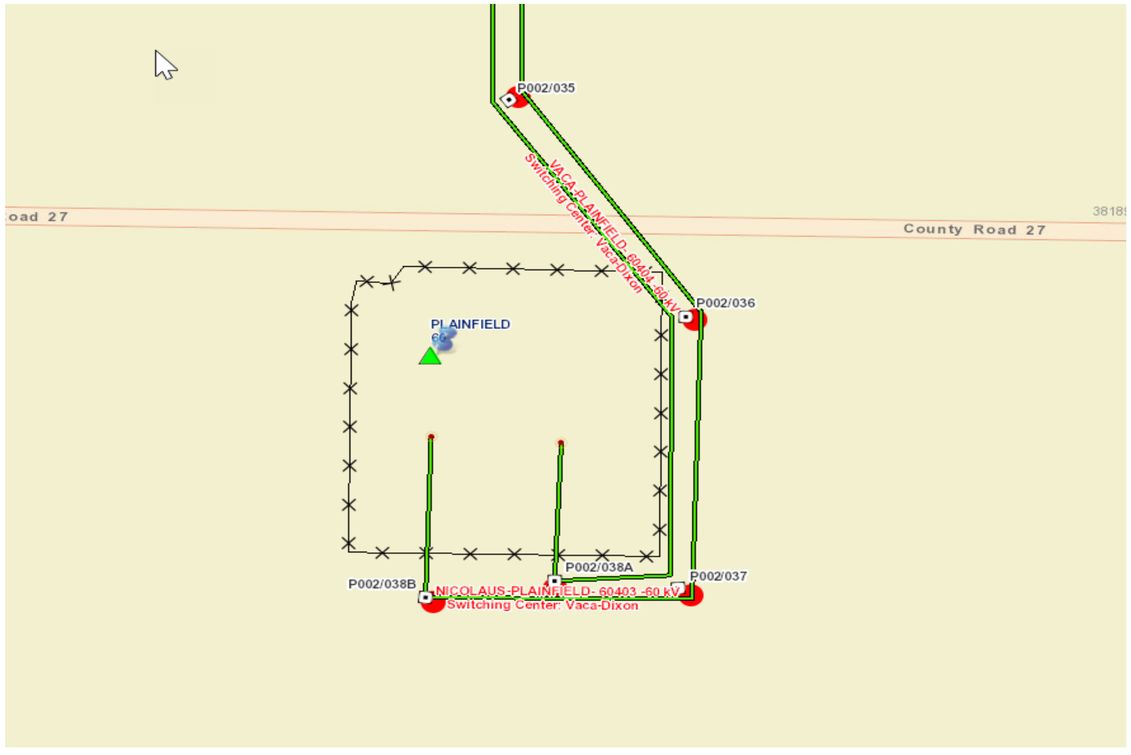
Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
PLAINFIELD SUB - RELOCATE TSPS	Reliability	System Design Upgrade	60	NA	5785807	60	4/6/2027	$ 988	$ 5,366
RERATE WOODLAND - DAVIS T-LINE	Reliability	Line Reconductoring	115	NA	5766694	60	11/14/2025	$ 3,893	$ 4,437
PLAINFIELD: INSTALL TWO CAP BANKS	Reliability	Voltage Support	NA	60 kV	5766696	61	6/30/2028	$ 4,538	$ 32,033
WOODLAND: 115KV LINE TERMINAL UPDATE	Reliability	Line Termination	NA	115 kV	5560779	61	11/13/2025	$ 31	$ 95
DAVIS: 115KV LINE TERMINAL UPDATE	Reliability	Line Termination	NA	115 kV	5560573	61	11/13/2025	$ 24	$ 91
PLAINFIELD: AQUIRE LAND	Reliability	New Substation	NA	NA	5554308	61	1/21/2026	$ 32	$ 532

Project Description

This project will mitigate overloads and voltage criteria violations in the 115kV and 60kV transmission systems among Vaca Dixon, Davis, Rio Oso and Brighton Substations. The project will include the following work: Install two 5.0 MVAR capacitor banks at Plainfield Substation. Replace the limiting elements on the 60kV equipment at Dixon Substation.Re-rate the Woodland - Davis 115kV Line and the Rio Oso - West Sac 115kV Line.

Entity Initiating Project: CAISO
Distribution Components: N/A



Project Need

The California ISO's 2018-2019 Transmission Planning Process (TPP) has identified the need for the Vaca – Dixon Area Reinforcement Project. This project will mitigate overloads and voltage criteria violations in the 115kV and 60kV transmission systems among Vaca Dixon, Davis, Rio Oso and Brighton Substations.

Project & Permitting Status Updates

Construction Start: 09/26/25
CPUC Date Filed: 3/12/2025 | 6/28/2024

PO 5766696 (Plainfield) – PTC filed 6/28/24. Final CPUC IS/MND issued 7/8/25
PO 5766694 (Woodland-Davis) – NOC filed 3/12/25, effective 4/18/25

*Note: All dollar figures represented in the 000s

T.0000155 - Lockeford - Lodi Area 230 kV Development

Project Details

County	San Joaquin
Year of BC Approval	2022
CAISO Year	2013
CPUC Filling Type	CPCN: A.23-09-001
CPUC Status	Filed and Under Review
CPUC Status Year	TBD
Total Actuals to Date	$ 23,458
Current Projected Cost	$ 138,236
In Service Date	12/5/2029
Project Status	Engineering
Original In-Service Date	3/1/2017
Reason for Change in ISD	Prioritization

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$1,940	**$23,458**	$513	$7,369	$9,880	$49,493	$42,736	$4,726	$61	**$138,236**
1%		0%	5%	7%	36%	31%	3%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
230 KV TLINE LOCKEFORD - NEW INDUSTRIAL	Reliability	New T-Line	230	NA	5767239	60	12/5/2029	$ 20,166	$ 50,801
LOOP IN BRIGHTON-BELLOTA INTO LOCKEFORD	Reliability	System Design Upgrade	230	NA	5767209	60	10/23/2029	$ 1,521	$ 27,735
LOCKEFORD SUBSTATION UPGRADES	Reliability	Bus Upgrade	NA	230 kV	5771389	61	12/5/2029	$ 333	$ 24,772
NEW 230 KV INDUSTRIAL SWITCHING STATION	Reliability	New Substation	NA	230 kV	5767188	61	10/9/2029	$ 1,439	$ 34,928

Project Description

Loop the Brighton – Bellota 230 kV Line into Lockeford 230 kV Substation to bring a new 230 kV source into the area. A new 230 kV double circuit tower line will be constructed to connect the existing Lockeford 230 kV Substation to a new 230 kV switching to be constructed near the City of Lodi's existing Industrial 60 kV Subsation. To accommodate the Brighton – Bellota loop-in and the new DCTL, the Lockeford 230 kV Bus will be upgraded to a four-bay BAAH bus configuration. The City of Lodi will be constructing a new 230/60 kV Substation which will be connected to the new 230 kV switching station.

Entity Initiating Project: CAISO
Distribution Components: N/A

Project Need

Planning analysis has identified several voltage and thermal issues in the area under NERC TPL-001-4 Category P1 and P6 contingencies.To mitigate the voltage issues in the area, the operating action plan radializes the Lockeford-Lodi Area, when the area load reaches 150 MW, putting the entire area at risk of an outage for a single contingency. The proposed project is required to reliably serve the Lockeford-Lodi Area.

Project & Permitting Status Updates

Construction Start: 05/10/29
CPUC Date Filed: 09/01/23

Final EIR posted by CPUC on 8/12/25. Scoping Ruling filed by the CPUC's assigned Commissioner, extending statutory deadline for this proceeding from March 31, 2026 to October 30, 2026. Opening Testimony was submitted to ALJ on Nov 10. Reply testimony due Dec 19. PG&E continues to update its schedule assumptions regularly as project permitting and development activities continue for internal planning purposes. However, the actual schedule cannot be known until the CPUC completes its permitting process.

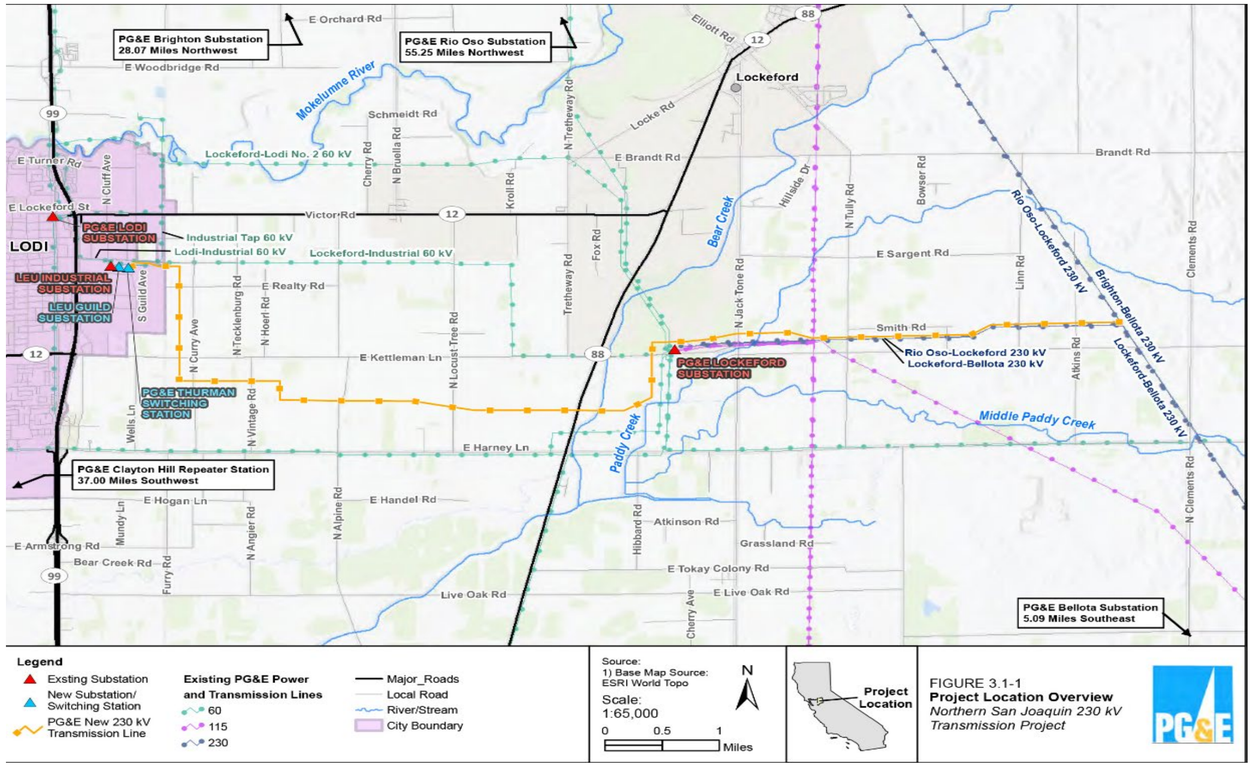


FIGURE 3.1-1
Project Location Overview
Northern San Joaquin 230 kV Transmission Project

*Note: All dollar figures represented in the 000s

T.0000349 - Moraga-Oakland #1-#4 Rebuild

Project Details

County	Contra Costa
Year of BC Approval	2020
CAISO Year	NA
CPUC Filling Type	PTC: A. 24-11-005
CPUC Status	Filed and Under Review
CPUC Status Year	TBD
Total Actuals to Date	$ 22,377
Current Projected Cost	$ 275,160
In Service Date	12/30/2030
Project Status	Engineering
Original In-Service Date	7/31/2025
Reason for Change in ISD	Prioritization

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$2,802	**$22,377**	$630	$3,132	$3,129	$6,007	$95,233	$116,218	$27,297	**$275,160**
1%		0%	1%	1%	2%	35%	42%	10%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
MORAGA SUB: 115KV TERMINAL UPGRADES	Reliability	Substation Reliability	NA	115 kV	5789522	61	12/30/2030	$ 306	$ 13,269
OAKLAND X SUB: 115KV BUS UPGRADE	Reliability	Substation Reliability	NA	115 kV	5789521	61	12/30/2030	$ 509	$ 14,282
MORAGA-OAKLAND X 115KV #3&4 RECOND	Asset Condition	Replace Conductor	115	NA	5793948	93	12/30/2030	$ 7,892	$ 116,702
MORAGA-OAKLAND X 115KV #1&2 RECOND	Asset Condition	Replace Conductor	115	NA	5793947	93	12/30/2030	$ 11,874	$ 128,348
MORAGA-OAKLAND X 115KV LINES 1-4 LAND	Asset Condition	Replace Conductor	115	NA	5551684	93	12/30/2030	$ 1,796	$ 2,559

Project Description

The project proposes to replace the structures, conductors, and hardware in the same overhead alignment between Moraga Substation and California State Highway 13 and also to relocate the line sections between Highway 13, and Oakland X underground (UG) within city streets. By replacing the aging facilities PG&E can improve wildfire safety and public safety and increase path capacity into the Oakland area. The project scope of work includes:
Removal of 78 existing lattice steel transmission towers
Removal of approximately 20 circuit miles of conductor
Installation of approximately 60 new lattice steel transmission towers
Installation of approximately 11 miles of ACCR conductor
Installation of three 115kV underground duct banks with 115kV transmission cables totaling approximately six miles
Installation of new 115kV circuit breakers and air switches at Moraga Substation
Upgrade the 115kV bus at Oakland X Substation to complement the higher capacity ACCRconductor

Entity Initiating Project: PG&E
Distribution Components: N/A

Project Need

By replacing the aging facilities PG&E can improve wildfire safety and public safety and increase path capacity into the Oakland area.

Project & Permitting Status Updates

Construction Start: 05/01/29
CPUC Date Filed: 11/15/24

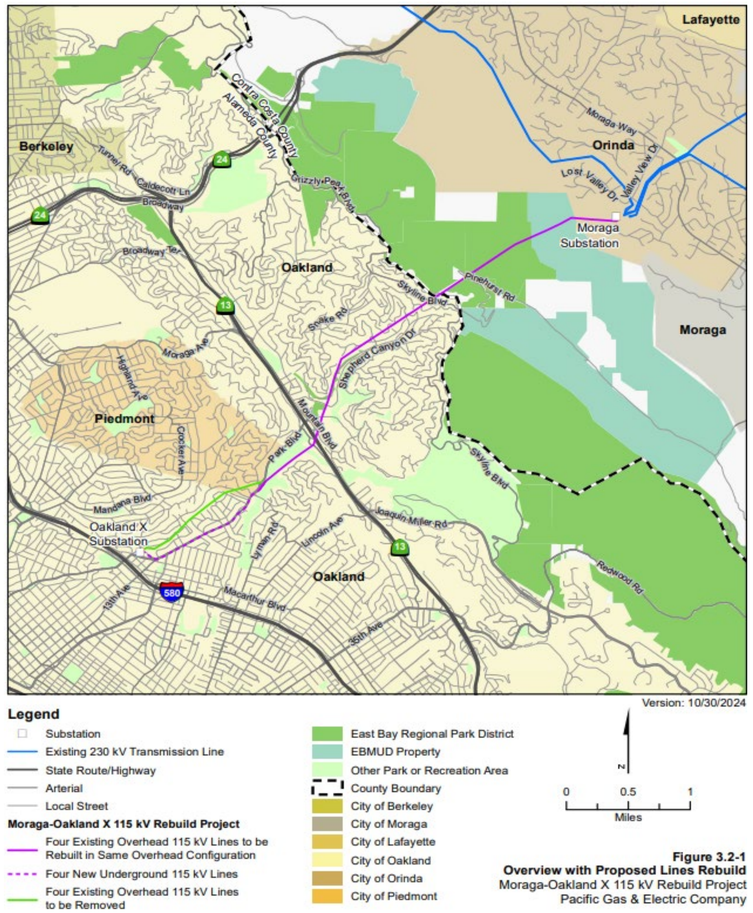


Figure 3.2-1
Overview with Proposed Lines Rebuild
Moraga-Oakland X 115 kV Rebuild Project
Pacific Gas & Electric Company

*Note: All dollar figures represented in the 000s

T.0000013 - Coleman - Red Bluff Project

Project Details

County	Tehama
Year of BC Approval	2025
CAISO Year	2011
CPUC Filling Type	NOC: AL 7766-E
CPUC Status	Filed and Under Review
CPUC Status Year	TBD
Total Actuals to Date	$ 6,225
Current Projected Cost	$ 36,451
In Service Date	3/20/2028
Project Status	Engineering
Original In-Service Date	12/1/2021
Reason for Change in ISD	Prioritization

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$963	**$6,225**	$193	$11,494	$9,945	$8,593	$0	$0	$0	**$36,451**
3%		1%	32%	27%	24%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
COLEMAN- RED BLUFF RECONDUCTOR-PHASE II	Reliability	Line Reconductoring	60	NA	5784598	60	3/20/2028	$ 785	$ 20,152
COLEMAN-RED BLUFF RECONDUCTOR-PHASE I	Reliability	Line Reconductoring	60	NA	5766750	60	11/6/2026	$ 5,341	$ 15,227
COLEMAN-PH SUBSTATION	Reliability	Line Termination	NA	60 kV	5766751	61	11/10/2026	$ 98	$ 1,071

Project Description

The proposed project will replace poles and reconductor approximately 18 miles of the Coleman-Red Bluff 60kV Line. The project scope of work includes the following:

- Reconductor roughly 18 miles of Coleman-Red Bluff 60kV Line with 715 all aluminum conductor (AAC) conductor or equivalent
- Replace roughly 189 existing wood and light duty structures with new structures
- Upgrade terminal equipment to match the new conductor

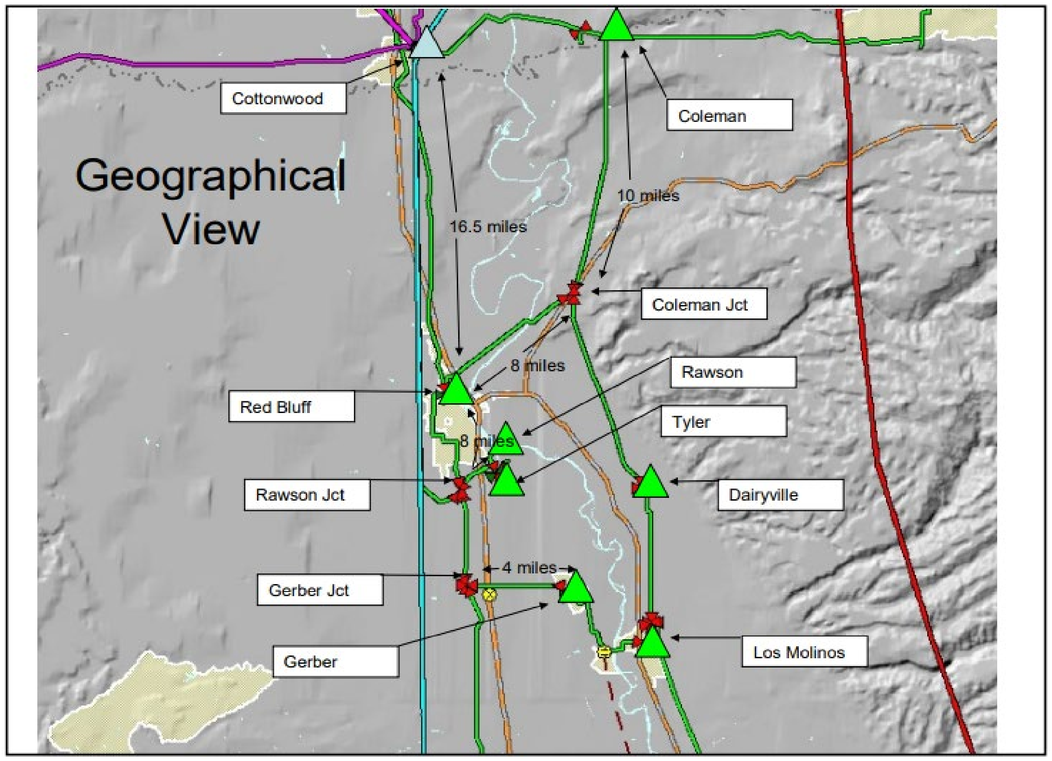
Entity Initiating Project: CAISO
Distribution Components: N/A

Project Need

The Coleman-Red Bluff 60kV Reconductoring project was approved by CAISO to mitigate overloads caused by single outage contingencies in the area. The project is required to improve electric capacity and capability of serving customers in the area and further strengthen PG&E's infrastructure and reduce wildfire risk

Project & Permitting Status Updates

Construction Start: 08/20/26
CPUC Date Filed: 11/25/25



*Note: All dollar figures represented in the 000s

T.0004688 - Lincoln Pleasant Grove & Rio Bravo Relo

Project Details

County	Placer
Year of BC Approval	2025
CAISO Year	N/A
CPUC Filling Type	NOC: AL 7768-E
CPUC Status	Filed and Under Review
CPUC Status Year	TBD
Total Actuals to Date	$ 59
Current Projected Cost	$ (108)
In Service Date	4/16/2026
Project Status	Engineering
Original In-Service Date	4/15/2026
Reason for Change in ISD	N/A

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$773	**$59**	$170	-$337	$0	$0	$0	$0	$0	**-$108**
-716%		-157%	312%	0%	0%	0%	0%	0%	

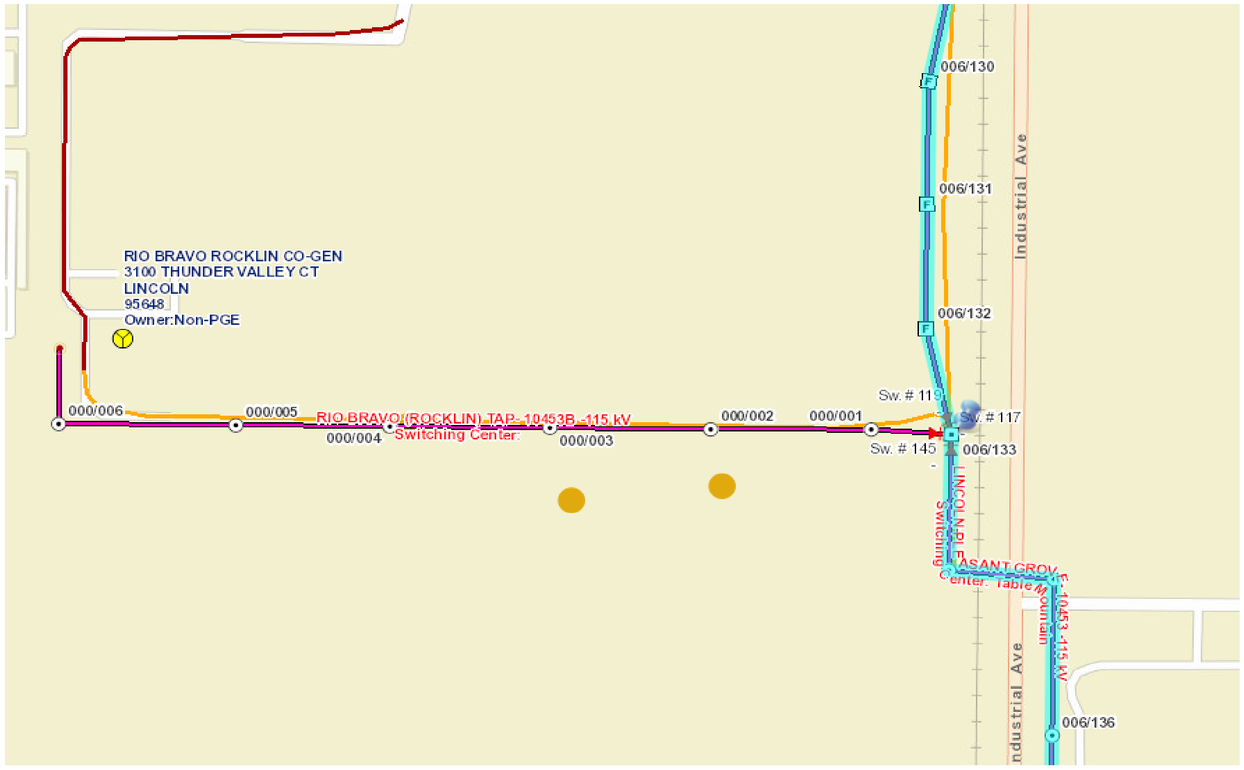
Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
RIO BRAVO TAP 115 KV - POLES REPL	WRO	Facility Relocation	115	N/A	5538680	82	4/8/2026	$ 11	$ 12
LINCOLN PLEASANT GROVE 10453: POLES REPL	WRO	Facility Relocation	115	N/A	5535360	82	4/16/2026	$ 48	$ (120)

Project Description

Relocate and replace one fiberglass pole and one TSP on the Lincoln-Pleasant Grove 115kV line, four wood t-line poles on the Rio Bravo Tap 60kV line, and relocate and upgrade three switches.

Entity Initiating Project: Third Party
Distribution Components: Underbuild



Project Need

The County of Placer is proposing the Placer Parkway project in Placer County which will construct a new transportation facility connecting State Route (SR) 65 to SR 99. The alignment of the new transportation facility is in conflict with the height of the existing fiberglass pole 006/132 and Tubular Steel Pole 006/133 on the Lincoln-Pleasant Grove 115 kV Line. To mitigate this conflict, this project proposes to replace Poles 006/132 and 006/133 with Tubular Steel Poles, approximately 10' from the existing location.

Project & Permitting Status Updates

Construction Start: 04/02/26
CPUC Date Filed: 11/26/25

*Note: All dollar figures represented in the 000s

T.0000434 - KINGSBURG CORCORAN 1 AND 2 115KV NERC

Project Details

County	Kings
Year of BC Approval	2018
CAISO Year	NA
CPUC Filling Type	NOC: AL 7769-E
CPUC Status	Filed and Under Review
CPUC Status Year	TBD
Total Actuals to Date	$ 13,662
Current Projected Cost	$ 60,427
In Service Date	3/31/2027
Project Status	Engineering
Original In-Service Date	3/31/2022
Reason for Change in ISD	Prioritization

Project Description

Reconductor 26.1 miles on the Kingsburg-Corcoran #1 circuit and 27.1 miles on the Kingsburg-Corcoran #2 circuit, replace 157 LSPs with 130 new design LSPs and 27 new Tubular Steel Poles (TSPs)

Entity Initiating Project: PG&E
Distribution Components: N/A

Project Need

The Kingsburg-Corcoran #1 & #2 115kV circuits were analyzed as part of the 2011 Priority 1 NERC Assessment. The analysis consisted of LiDAR surveying and PLS CADD modeling to identify non-compliant spans. The completed analysis identified 153 of the 199 spans (77%) with clearance issues on the Kingsburg-Corcoran #1 and 139 of the 200 spans (70%) with clearance issues on the Kingsburg-Corcoran #2 electric transmission lines. The Kingsburg-Corcoran #1 and #2 115kV NERC project will address the above discrepancies and return the line back to compliance.

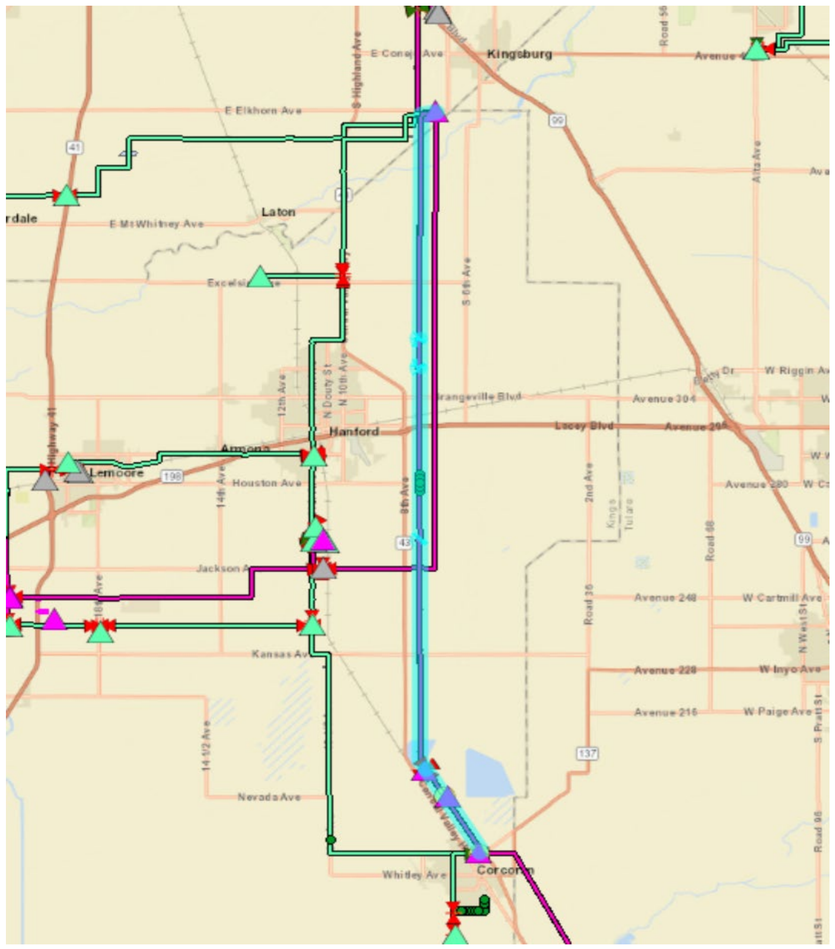
Project & Permitting Status Updates

Construction Start: 11/01/26
CPUC Date Filed: 12/02/25

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$2,143	**$13,662**	$534	$25,377	$20,854	$0	$0	$0	$0	**$60,427**
4%		1%	42%	35%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
KINGSBURG CORCORAN 1 AND 2 115KV NERC	Asset Condition	NERC Compliance - GO 95	115	NA	5767509	93	3/31/2027	$ 13,662	$ 60,427



*Note: All dollar figures represented in the 000s

T.0009652 - Eden Landing Eastshore Grant

Project Details

County		Alameda
Year of BC Approval		2025
CAISO Year		NA
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	1,978
Current Projected Cost	$	(20,231)
In Service Date		1/31/2028
Project Status		Engineering
Original In-Service Date		11/19/2027
Reason for Change in ISD		NA

Project Description

The project scope of work includes following:
Install Gas Insulated Switchgear (GIS) Switching Station: Install two (2) GIS BAAH switching station looping into Grant-Eastshore #2 115kV Line. Provide dual 115kV service from a new GIS Switching station.
Install T-Line: Two 115 kV OH Transmission lines will be built to interconnect 115 kV GIS switching station to Eastshore & Grant's 115 kV bus. The new line will be 0.40 double circuit miles of aluminum concentric stranded conductor.

Entity Initiating Project: Third Party
Distribution Components: N/A

Project Need

The Interconnection Customer (IC), has submitted an application to Pacific Gas and Electric Company (PG&E) to interconnect a manufacturing load to PG&E's Transmission system. The Project has an initial demand of 15 MW and reach 75 MW in Q1 2030.

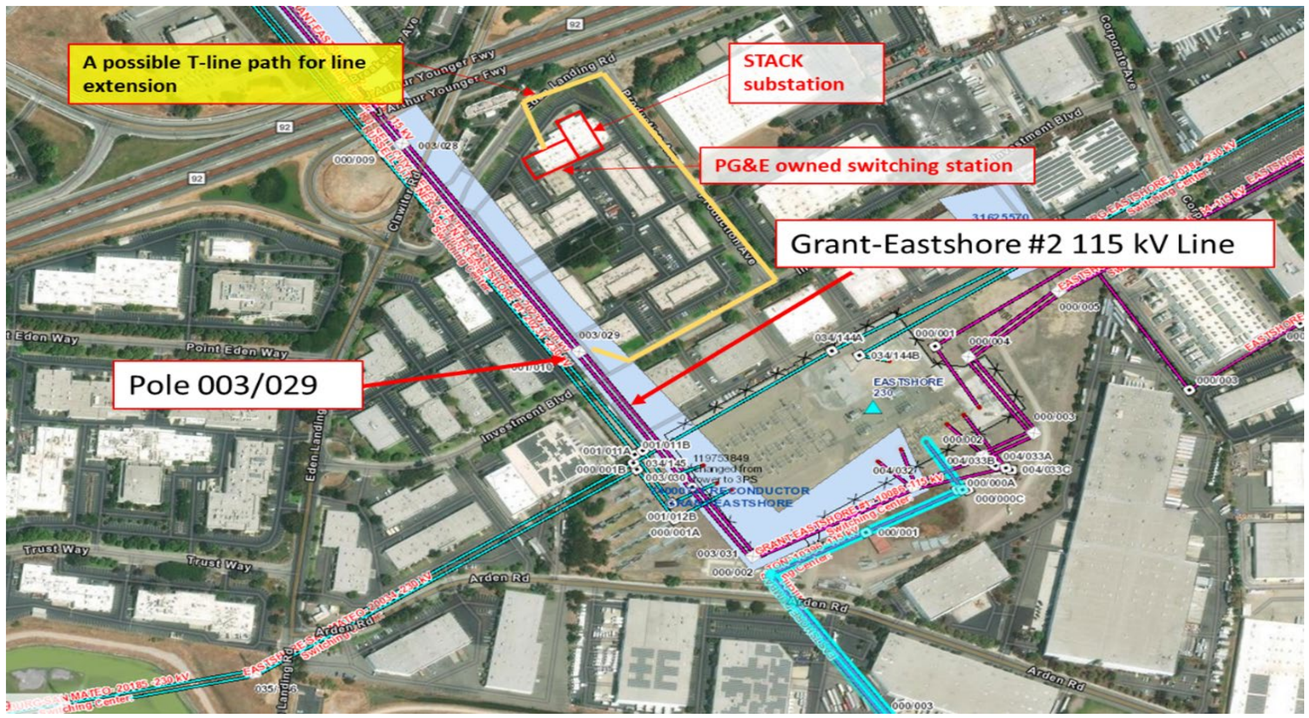
Project & Permitting Status Updates

Construction Start: 12/02/25
CPUC Date Filed: Expected 2026 Q1

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$1,108	**$1,978**	$188	$3,049	-$11,970	-$13,479	$1	$0	$0	**-$20,231**
-5%		-1%	-15%	59%	67%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
CUSTOMER SUBSTATION 115 KV T-LINE	WRO	Load Interconnection	115	NA	5813950	82	1/31/2028	$ 4	$ 58
EDEN LANDING INSTALL T-LINE	WRO	Load Interconnection	115	NA	5807592	82	1/28/2028	$ 727	$ 3,517
EDEN LANDING INSTALL GIS	WRO	Load Interconnection	NA	115 kV	5807505	82	1/28/2028	$ 344	$ (26,766)
EDEN LANDING METERING	WRO	Load Interconnection	NA	115 kV	5554927	82	NA	$ 11	$ 64
EDEN LANDING DIRECT ASSIGNMENT	WRO	Load Interconnection	NA	115 kV	5554926	82	1/31/2028	$ 121	$ 300
GRANT REMOTE END UPGRADE	WRO	Load Interconnection	NA	115 kV	5554925	82	1/28/2028	$ 371	$ 1,398
EASTSHORE REMOTE END UPGRADE	WRO	Load Interconnection	NA	115 kV	5554924	82	1/28/2028	$ 400	$ 1,200



*Note: All dollar figures represented in the 000s

T.0004279 - Salinas-Laureles 60kV:RELO:S_Davis_Rd

Project Details

County		Monterey
Year of BC Approval		2020
CAISO Year		NA
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	270
Current Projected Cost	$	1,413
In Service Date		4/22/2026
Project Status		Engineering
Original In-Service Date		11/3/2020
Reason for Change in ISD		Customer Action

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$143	**$270**	$40	$1,223	$0	$0	$0	$0	$0	**$1,413**
10%		3%	87%	0%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
SALINAS-LAURELES 60KV RELO DAVIS RD	WRO	Facility Relocation	60	NA	5531823	82	4/22/2026	$ 270	$ 1,413

Project Description

This project will replace 27 transmission poles and install 2 new transmission poles, with distribution underbuild, between structures 002/060 to 003/096.

An additional 12 distribution poles will be replaced and 5 new distribution poles will be installed as part of the construction project, since the alignment of the distribution poles is affected by the transmission relocation. Additionally, an existing PG&E Cabinet located by Pole 002/060 will be removed, and 3 guy stubs will be relocated.

Entity Initiating Project: Third Party
Distribution Components: Underbuild

Project Need

Monterey County is requesting that PG&E relocate transmission poles on the Salinas-Laureles 60 kV Line in Monterey County to accommodate their planned construction project to widen Davis Road and reconstruct the existing bridge over the Salinas River.

Project & Permitting Status Updates

Construction Start: 04/07/26
CPUC Date Filed: Expected 2026 Q1

*Note: All dollar figures represented in the 000s

T.0008740 - Tulucay-Napa No. 2 60kV Pole Relo

Project Details

County	Napa	
Year of BC Approval	2014	
CAISO Year	NA	
CPUC Filling Type	NOC	
CPUC Status	TBD	
CPUC Status Year	TBD	
Total Actuals to Date	$	285
Current Projected Cost	$	796
In Service Date	6/30/2026	
Project Status	Engineering	
Original In-Service Date	12/15/2024	
Reason for Change in ISD	Customer Action	

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$117	**$285**	$23	$488	$0	$0	$0	$0	$0	**$796**
15%		3%	61%	0%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
TULUCAY-NAPA NO. 2 60KV POLE RELO	WRO	Facility Relocation	60	NA	5551181	82	6/30/2026	$ 285	$ 796

Project Description

This project scope is to relocate poles 003/001 and 003/002 on the Tulucay-Napa No. 2 60kV line.

Entity Initiating Project: Third Party
Distribution Components: NA

Project Need

Caltrans is proposing to widen the Tulucay Creek Bridge along Highway 121 just north of the Socscal Ave and Kansas Ave intersection in Napa, CA. Poles 003/001 and 003/002 of the Tulucay-Napa No. 2 60kV line conflict with the proposed project and is being proposed to be relocated to avoid the bridge widening.

Project & Permitting Status Updates

Construction Start: 06/16/26
CPUC Date Filed: Expected 2026 Q1

*Note: All dollar figures represented in the 000s

T.0009641 - Cortina #1 60 kV Line Reconductoring

Project Details

County		Colusa
Year of BC Approval		TBD
CAISO Year		2024
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	1,191
Current Projected Cost	$	44,969
In Service Date		5/31/2028
Project Status		Engineering
Original In-Service Date		6/1/2028
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$1,019	**$1,191**	$161	$16,366	$20,023	$7,230	$0	$0	$0	**$44,969**
2%		0%	36%	45%	16%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
CORTINA 1 RECOND ARBUCKLE TO DUNNIGAN	Reliability	Line Reconductoring	60	NA	5811325	60	5/31/2028	$ 339	$ 23,078
CORTINA #1 RECOND CORTINA TO ARBUCKLE	Reliability	Line Reconductoring	60	NA	5807521	60	5/31/2028	$ 715	$ 20,194
ARBUCKLE SUB TERMINAL UPGRADES	Reliability	Line Termination	NA	60 kV	5811850	61	5/31/2028	$ 68	$ 700
CORTINA #1 SUB TERMINAL UPGRADES	Reliability	Line Termination	NA	60 kV	5811724	61	5/31/2028	$ 70	$ 997

Project Description

The project scope of work includes: Reconductor approximately 26.2 miles of the Cortina #1 60 kV Line between Cortina Substation and Dunnigan Substation with a conductor able to achieve at least 818 Amps of summer interior normal rating. Existing distribution underbuild will be relocated to new transmission structures. Removal of the idle Drake Substation tap and Switch 25. Upgrade substation terminal equipment to achieve full conductor capacity.

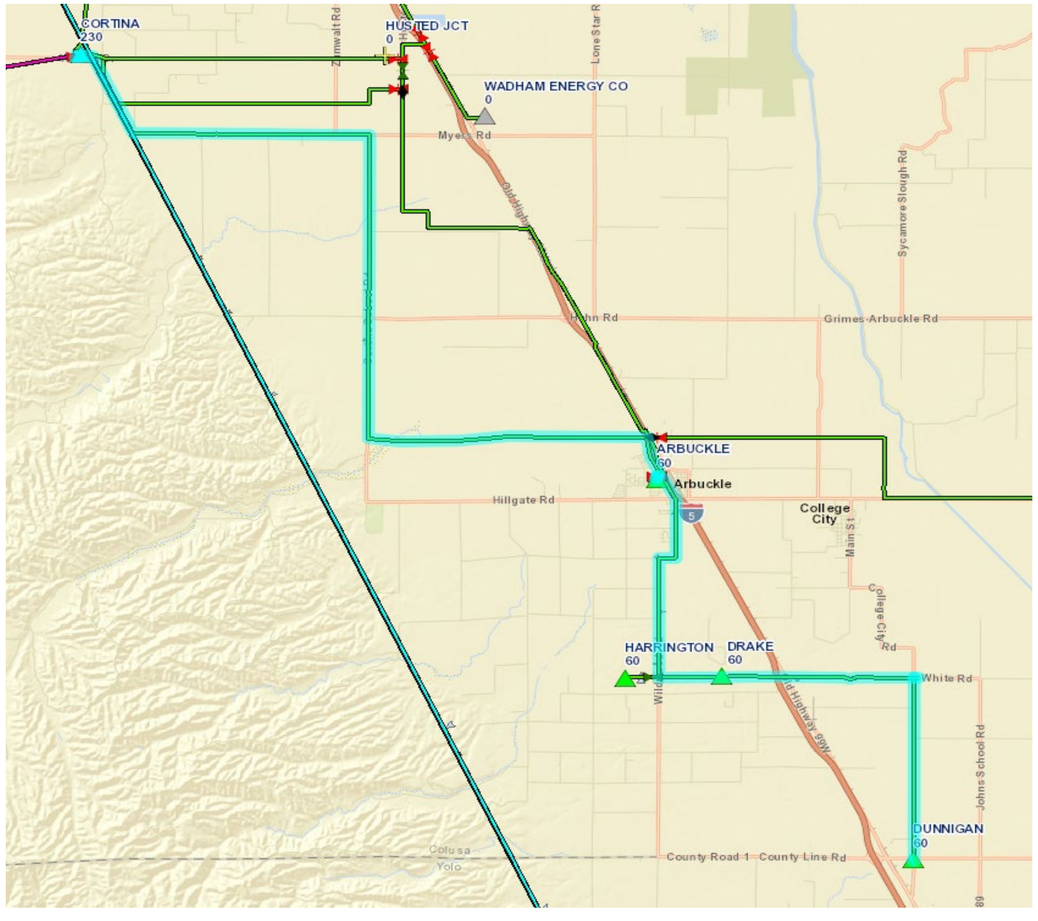
Entity Initiating Project: CAISO
Distribution Components: Underbuild

Project Need

The Cortina #1 60 kV transmission line, located in Colusa County, is approximately 26.2 miles long and supported by 447 structures. The Arbuckle, Harrington and Dunnigan 60 kV substations are radially served by the Cortina #1 60 kV line with the Cortina #2 60 kV line serving as an alternate source with normally open switches. This project will help facilitate the delivery of an additional 10 MW to serve increased load in the Cortina area due to the addition of Tesla charging banks.

Project & Permitting Status Updates

Construction Start: 10/01/26
CPUC Date Filed: Expected 2026 Q1



*Note: All dollar figures represented in the 000s

T.0008749 - Weber-Mormon Jct Reconductor

Project Details

County		San Joaquin
Year of BC Approval		2025
CAISO Year		2022
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	921
Current Projected Cost	$	11,620
In Service Date		5/27/2027
Project Status		Engineering
Original In-Service Date		5/1/2027
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$533	**$921**	$109	$5,931	$4,584	$75	$0	$0	$0	**$11,620**
5%		1%	51%	39%	1%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
WEBER-MORMON JCT RECONDUCTOR	Reliability	Line Reconductoring	60	NA	5803222	60	5/27/2027	$ 910	$ 11,597
MORMON: TERMINAL UPGRADES	Reliability	Line Termination	N/A	60 kV	5563496	61	N/A	$ 11	$ 23

Project Description

Project scope:
Rebuild 6.2 circuit miles between Weber (000/004) and Mormon (006/103) of the Weber - Mormon Jct. 60 kV Line and conductor with a larger conductor to achieve at least 742 Amps of summer interior emergency rating. New poles will be sized to accommodate future distribution under build conductor.
Upgrade substation terminal equipment to achieve full conductor capacity, if needed.

Entity Initiating Project: CAISO
Distribution Components: Underbuild

Project Need

The project will increase operating flexibility, load serving capability, customer reliability, eliminate normal overloads and improve asset health

Project & Permitting Status Updates

Construction Start: 12/21/26
CPUC Date Filed: Expected 2026 Q1

*Note: All dollar figures represented in the 000s

T.0004271 - Morgan Hill-Watsonville 115kV Area Reinf

Project Details

County		Santa Clara
Year of BC Approval		2019
CAISO Year		2014
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	25,101
Current Projected Cost	$	134,843
In Service Date		1/8/2029
Project Status		Engineering
Original In-Service Date		12/1/2021
Reason for Change in ISD		Prioritization

Project Description

Reconductor a portion of the Metcalf – Green Valley 115 kV Line and re-terminate it into the 115 kV bus at Morgan Hill Substation, creating the Morgan Hill-Green Valley 115 kV Line. Convert the Morgan Hill 115 kV bus to a breaker-and-a-half (BAAH) configuration to improve reliability and operational flexibility.

Entity Initiating Project: CAISO
Distribution Components: Underbuild

Project Need

Improve electric transmission system reliability and operational flexibility in both the Morgan Hill – Gilroy and Santa Cruz – Watsonville areas by upgrading existing transmission facilities. This project will mitigate these system problems and resolve the customer outage issues and reduce the reliance on local gas-fired generation in the Morgan Hill – Gilroy area

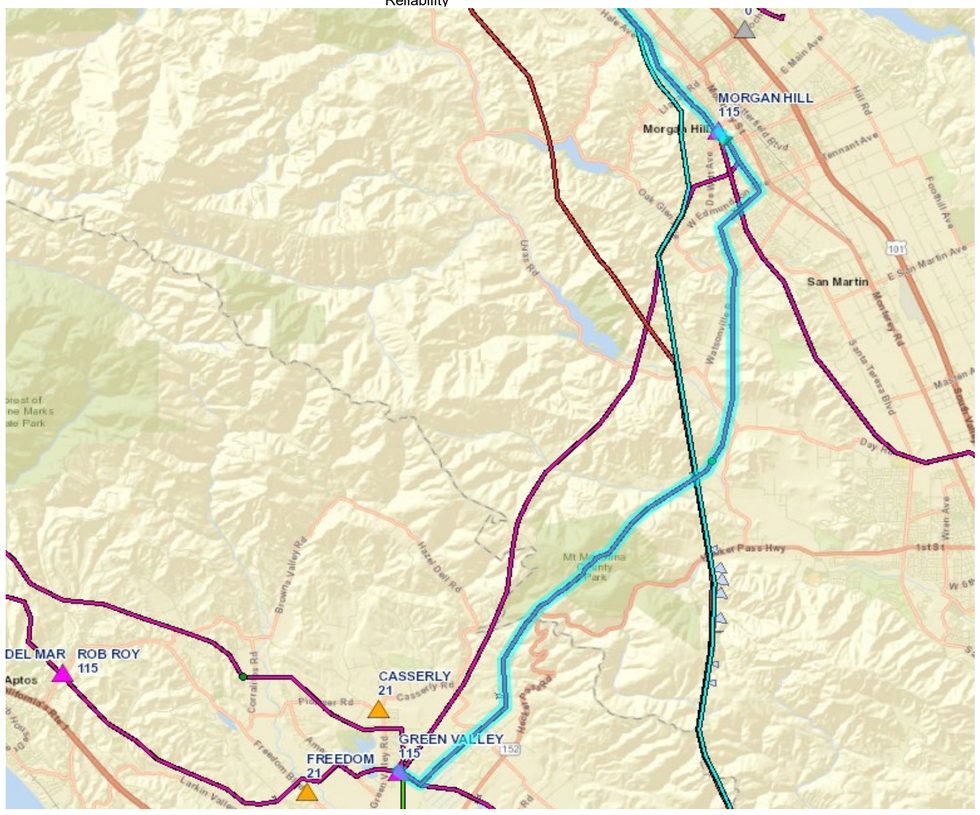
Project & Permitting Status Updates

Construction Start: 04/21/26
CPUC Date Filed: Expected 2026 Q1

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$2,837	**$25,101**	$568	$26,780	$68,050	$14,232	$110	$0	$0	**$134,843**
2%		0%	20%	50%	11%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
DIST WORK MORGANHILL_WATSONVILLE 1115KV	Reliability	T-Line Capacity	NA	NA	5814360	6		$ 7	$ 7
MORGAN HILL IT	Reliability	T-Line Capacity	115	NA	5810958	60	5/23/2028	$ 18	$ 317
MORGAN HILL SUBSTATION CUTOVER	Reliability	System Design Upgrade	115	NA	5786320	60	12/29/2028	$ 29	$ 36
METCALF-GREEN VALLEY 115KV: LINE RECONDU	Reliability	Line Reconductoring	115	NA	5782106	60	12/29/2028	$ 8,359	$ 64,715
METCALF-GREEN VALLEY 115KV: ACQUIRE EASE	Reliability	Line Reconductoring	115	NA	5531782	60	12/29/2028	$ 27	$ 3,627
LLAGAS SUB: 115KV PROTECTION MODS	Reliability	Substation Reliability	NA	115 kV	5786319	61	8/2/2028	$ 72	$ 1,281
MORGAN HILL SUB: 115KV BAAH CONVERSION	Reliability	Bus Upgrade	NA	115 kV	5782117	61	12/29/2028	$ 16,502	$ 60,245
METCALF SUB: 115KV PROTECTION MODS	Reliability	Substation Reliability	NA	115 kV	5782115	61	12/7/2028	$ 34	$ 1,181
GREEN VALLEY SUB: 115KV PROTECTION MODS	Reliability	Substation Reliability	NA	115 kV	5782114	61	1/8/2029	$ 53	$ 3,435



*Note: All dollar figures represented in the 000s

T.0000156 - Wheeler Ridge Junction Substation

Project Details

County		Kern
Year of BC Approval		2015
CAISO Year		2014
CPUC Filling Type		PTC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	24,251
Current Projected Cost	$	357,671
In Service Date		6/22/2033
Project Status		Engineering
Original In-Service Date		5/1/2020
Reason for Change in ISD		ISO Action

Project Description

Competitive Scope (230 kV):
Construct 230 kV portion of Casa Loma Substation, including two new 230/115 kV transformers and three 230 kV line terminations.

Non-competitive Scope (230 kV / 115 kV):
Construct a new two and-a-half bay, BAAH 115 kV bus configuration at the new WRJ project substation. Upgrade existing Wheeler Ridge-Adobe Switching Station and Adobe Switching Station-Lamont 115 kV lines to 230 kV. Upgrade existing Kern-Tevis-Stockdale-Lamont and Kern Tevis-Stockdale 115 kV lines to 230 kV. Reconductor Stockdale 230 kV tap #1 and #2 lines.

Entity Initiating Project: CAISO
Distribution Components: N/A

Project Need

This project will construct a new 230/115 kV transmission substation in the Bakersfield area to provide additional transmission capacity and improve service reliability to customer in the greater Kern County area.

Project & Permitting Status Updates

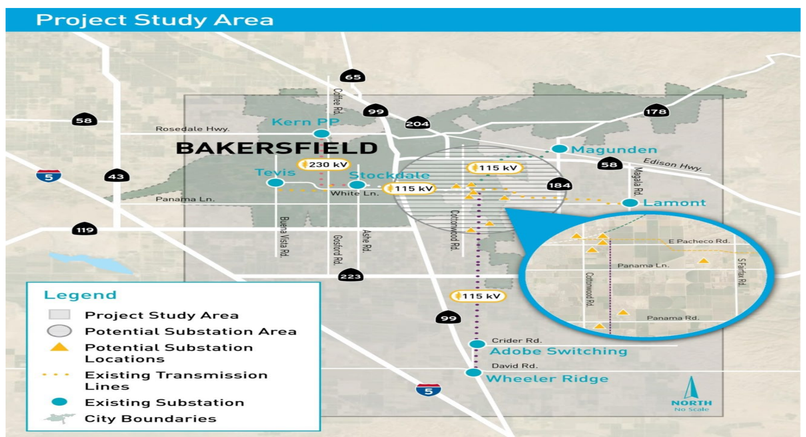
Construction Start: 03/01/28
CPUC Date Filed: Expected 2026 Q1

Pre-filing occurred in September 2025

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$3,018	**$24,251**	$629	$5,731	$15,220	$43,080	$81,969	$73,142	$69,648	**$357,671**
1%		0%	2%	4%	12%	23%	20%	19%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
W R -WEEDPATCH (9/119 - WR)	Reliability	T-Line Capacity	70	NA	5773278	60	12/1/2032	$ 24	$ 2,619
RECONDUCTOR STOCKDALE_MAGUNDEN 115KV	Reliability	T-Line Capacity	115	NA	5767237	60	6/22/2033	$ 36	$ 2,004
RECONDUCTOR KERN PP_STOCKDALE 230KV	Reliability	New T-Line	230 | 115	NA	5767236	60	12/1/2032	$ 358	$ 21,369
VOLTAGE UPGRADE STOCKDALE_ LAMONT 115KV	Reliability	T-Line Capacity	115	NA	5767235	60	12/1/2032	$ 194	$ 26,077
VLTG UPG WR SS_WRJ CASA LOMA_115KV TO 23	Reliability	T-Line Capacity	115	NA	5767234	60	7/30/2030	$ 275	$ 44,203
WRJ NONCOMPETITIVE_CPUC LIC/PER	Reliability	T-Line Capacity	230 | 115	NA	5767233	60	2/25/2030	$ 17,035	$ 24,853
PURCHASE LAND FOR NEW TRANSMISSION LINE	Reliability	T-Line Capacity	NA	NA		60	8/13/2027	$-	$ 1,000
STOCKDALE 230KV SUBSTATION - AMPACITY AN	Reliability	Substation Capacity	NA	230 kV	5771739	61	5/4/2032	$ 814	$ 39,851
KERN PP 230KV SUBSTATION - RELAY UPGRADE	Reliability	Substation Capacity	NA	230 kV	5771738	61	5/10/2030	$ 19	$ 2,302
WHEELER RIDGE 230KV STATION - NEW BAY	Reliability	Substation Capacity	NA	230 kV	5771737	61	3/29/2033	$ 152	$ 7,293
ADOBE 115KV STATION - LINE & RELAY UPGRA	Reliability	Substation Capacity	NA	115 kV	5771736	61	3/31/2033	$ 8	$ 769
LAMONT 115KV SUBSTATION - RELAY UPGRADE	Reliability	Substation Capacity	NA	115 kV	5771734	61	3/7/2033	$ 43	$ 979
KERN PP 115KV SUBSTATION - RELAY UPGRADE	Reliability	Substation Capacity	NA	115 kV	5771733	61	1/16/2030	$ 62	$ 1,056
WRJ COMPETITIVE_CPUC LIC/PER	Reliability	Substation Capacity	NA	230 | 115 kV	5767232	61	5/13/2033	$ 3,755	$ 8,366
CASA LOMA JCT SUBST_COMPETITIVE	Reliability	New Substation	NA	230 | 115 kV	5767215	61	3/2/2033	$ 838	$ 101,125
CASA LOMA JUNCTION SUBSTATION	Reliability	New Substation	NA	230 | 115 kV	5767199	61	3/1/2033	$ 639	$ 72,994
PURCHASE LAND FOR NEW SUB - NON-COMP	Reliability	Substation Capacity	NA	NA	5523423	61	N/A	$-	$ 405



*Note: All dollar figures represented in the 000s

T.0010903 - L0015 Rue Ferrari Large Load

Project Details

County		Santa Clara
Year of BC Approval		TBD
CAISO Year		NA
CPUC Filling Type		NOC (5814132) NOC (5815152)
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	1,085
Current Projected Cost	$	196,885
In Service Date		3/4/1930
Project Status		Engineering
Original In-Service Date		NA
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$1,085	**$1,085**	$245	$38,058	$35,664	$28,188	$82,698	$11,153	$46	**$196,885**
1%		0%	19%	18%	14%	42%	6%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
L0015_RUE FERRARI CUST SUB PERM	WRO	Load Interconnection	115	NA	5816399	82	8/23/2027	$-	$ (153)
L0015_RUE FERRARI TELECOM TEMP	WRO	Load Interconnection	115	NA	5816398	82	N/A	$ -	$ -
L0015 RUE FERRARI T-LINE TEMP SERVICE	WRO	Load Interconnection	115	NA	5815152	82	10/26/2026	$ 122	$ 101
L0015 EVERGREEN REMOTE END TEMP	WRO	Load Interconnection	NA	115 kV	5814794	82	10/1/2026	$ 20	$ (38)
L0015 METCALF REMOTE END TEMP	WRO	Load Interconnection	NA	115 kV	5814793	82	10/1/2026	$ 19	$ (33)
74065333_L0015 METCALF REMOTE END	WRO	Load Interconnection	NA	115 kV	5814471	82	3/1/2030	$ 7	$ 1,519
74065334_L0015 EVERGREEN REMOTE END	WRO	Load Interconnection	NA	115 kV	5814470	82	3/1/2030	$ 7	$ 1,515
L0015_16 HELLYER NEW SW STA (Refund)	WRO	Load Interconnection	NA	115 kV	5814133	82	3/1/2030	$ 301	$ 100,192
74064643_L0015 RUE FERRRARI T-LINE	WRO	Load Interconnection	115	NA	5814132	82	3/1/2030	$ 417	$ 38,693
74064644_L0015 RUE FERRARI CUST SUB TEMP	WRO	Load Interconnection	NA	115 kV	5814131	82	10/1/2026	$ 48	$ (111)
74064646_L0016 SILVER CREEK T-LINE	WRO	Load Interconnection	115	NA	5814128	82	3/4/2030	$ 62	$ 38,688
L0016 SILVER CREEK CUST SUB MAIN	WRO	Load Interconnection	NA	115 kV	5814127	82	3/1/2030	$ 37	$ (231)
74065623_L0015_16 HELLYER LAND ACQUIS	WRO	Load Interconnection	NA	115 kV	5561439	82	12/31/2027	$ 45	$ 16,744

Project Description

This project proposes to install new 115kV BAAH GIS switching station with four (4) bays and the existing Swift-Metcalf 115kV line and Piercy-Metcalf 115kV lines will be looped through the new switching station.

Entity Initiating Project: Third Party
Distribution Components: NA

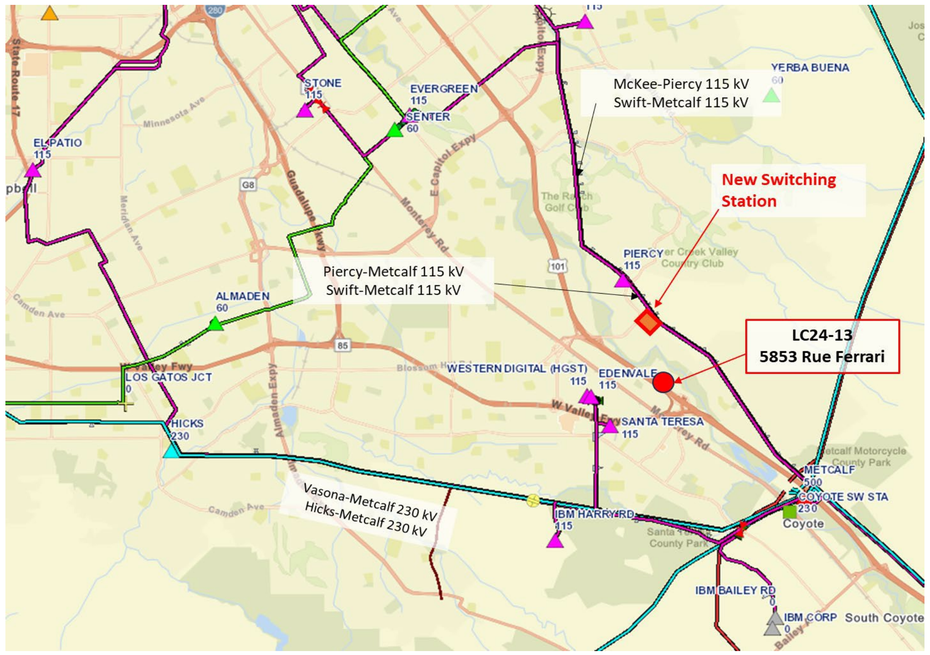
Project Need

The Interconnection Customer (“IC), has signed Preliminary Engineering Study (PES) with Pacific Gas and Electric Company (PG&E) for LC24-13 (“Project”) to interconnect a data center load to PG&E’s Transmission system.

Project & Permitting Status Updates

Construction Start: 07/20/26

CPUC Date Filed:
Expected 2026 Q1
(5815152)
Expected 2027 Q1
(5814132)



*Note: All dollar figures represented in the 000s

T.0010100 - Applied Materials Arques Load Increase

Project Details

County		Santa Clara
Year of BC Approval		2025
CAISO Year		NA
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	2,752
Current Projected Cost	$	33,477
In Service Date		7/29/2027
Project Status		Engineering
Original In-Service Date		7/31/2027
Reason for Change in ISD		N/A

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$2,292	**$2,752**	$358	$15,134	$13,561	$1,670	$0	$0	$0	**$33,477**
7%		1%	45%	41%	5%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
L0006_APPLIED MAT LATERAL FIBER UPGRD	WRO	Load Interconnection	NA	NA	5815037	82		$ 2	$ 2
L0006_APPLIED MATERIALS SW STA Ph 1 (DA)	WRO	Load Interconnection	NA	115 kV	5814795	82	4/24/2026	$ (156)	$ 16
L0006_BRITTON SUB PROTECTION UPGRADE	WRO	Load Interconnection	NA	115 kV	5810601	82	7/29/2027	$ 73	$ 1,599
L0006_MONTA VISTA PROTECTION UPGRADE	WRO	Load Interconnection	NA	115 kV	5810599	82	7/29/2027	$ 72	$ 1,119
L0006_NEWARK SUB PROTECTION UPGRADE	WRO	Load Interconnection	NA	115 kV	5810598	82	7/29/2027	$ 83	$ 1,433
L0006_LOCKHEED #2 PROTECTION UPGRADE	WRO	Load Interconnection	NA	115 kV	5810528	82	7/27/2027	$ 1,152	$ 10,693
L0006_LOCKHEED #1 PROTECTION UPGRADE	WRO	Load Interconnection	NA	115 kV	5810527	82	7/29/2027	$ 94	$ 5,380
L0006_APPLIED MAT SW STA PROT Ph 2	WRO	Load Interconnection	NA	115 kV	5810526	82	7/29/2027	$ 272	$ 10,233
L0006_APPLIED MATERIALS SW STA PH 1	WRO	Load Interconnection	NA	115 kV	5809176	82	4/1/2026	$ 1,140	$ 2,263
L0006_WHISMAN SUB TELECOM UPGRADES	WRO	Load Interconnection	NA	115 kV	5563280	82	7/29/2027	$ 8	$ 361
L0006_FMC SUB TELECOM UPGRADES	WRO	Load Interconnection	NA	115 kV	5561948	82	7/29/2027	$ 12	$ 377

Project Description

Lockheed 2 Substation: Install two (2) 115kV Circuit Breaker (CB) and associated equipment replacing the existing Circuit Switchers (326 & 346)
Reconductor Newark-Lockheed #2 transmission line
Reconductor Monta Vista-Britton transmission line
Expansion on Applied Materials Switching Station

Entity Initiating Project: Third Party
Distribution Components: N/A

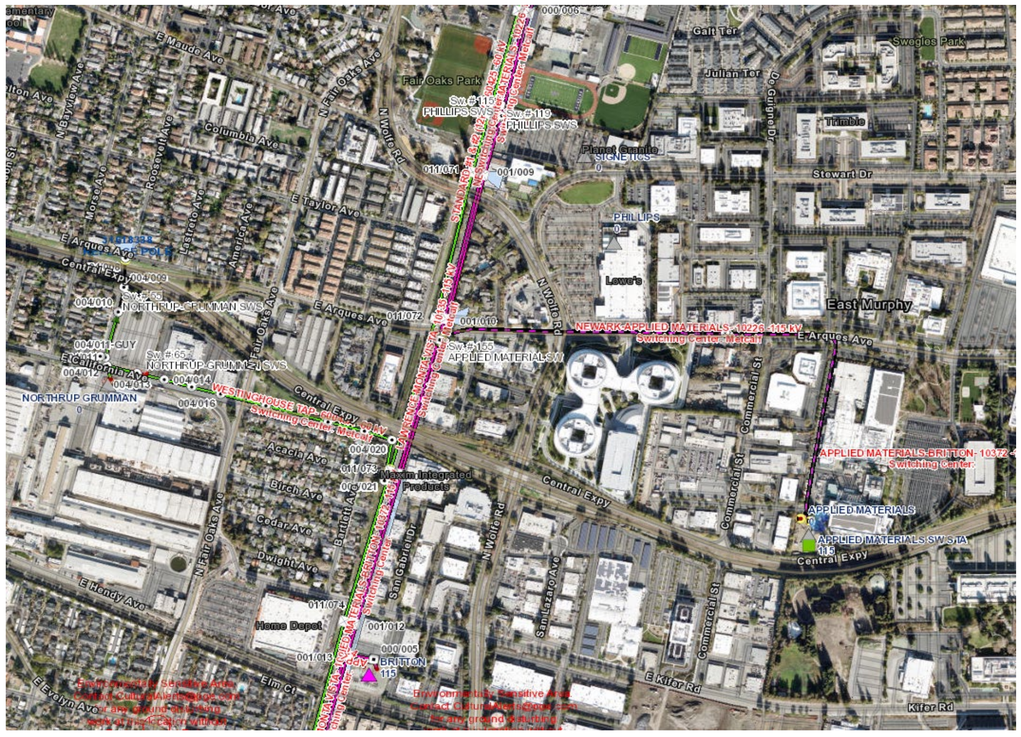
Project Need

The Interconnection Customer (IC) has requested PG&E to increase load. The proposed scope will add an additional 14MW, 23MW & 15MW in Phase 1, Phase 2 & Phase 3 respectively to the existing 20MW.

Project & Permitting Status Updates

Construction Start: 01/27/26
CPUC Date Filed: Expected 2026 Q2

Phase 1 N/A, Phase 2 NOC (Applied Materials Expansion), & Phase 3 NOC (Reconductoring)



*Note: All dollar figures represented in the 000s

T.0010873 - LC24-2 Lockheed #1 Sub TLine Cust Sub

Project Details

County		Santa Clara
Year of BC Approval		2025
CAISO Year		NA
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	774
Current Projected Cost	$	34,493
In Service Date		6/30/2027
Project Status		Engineering
Original In-Service Date		6/1/2027
Reason for Change in ISD		N/A

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$774	**$774**	$361	$21,721	$11,087	$624	$0	$0	$0	**$34,493**
2%		1%	63%	32%	2%	0%	0%	0%	

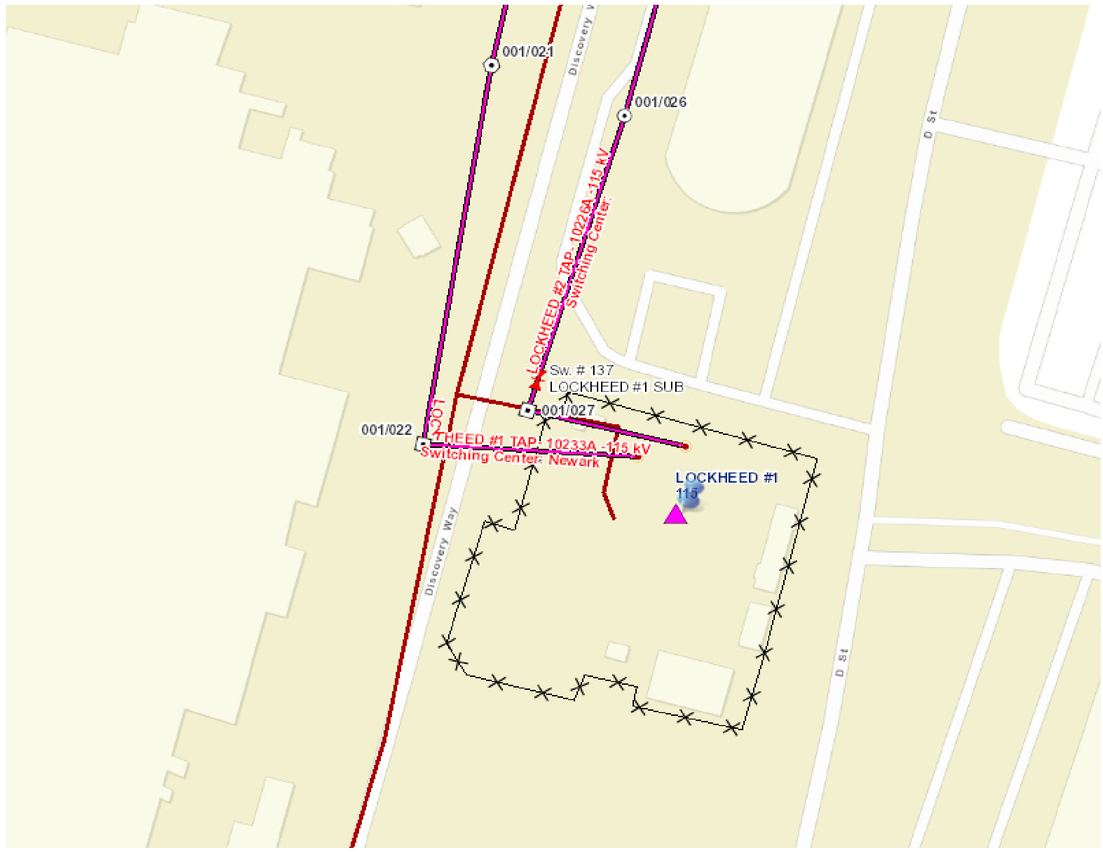
Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
L0017 - DIRECT ASSIGNMENT CUSTOMER SUBST	WRO	Load Interconnection	NA	115 kV	5813905	82	6/1/2027	$ 71	$ 1,067
LC24-2 TRANSMISSION LINE	WRO	Load Interconnection	115	NA	5813906	82	6/30/2027	$ 378	$ 27,861
L0017 - REMOTE END LOCKHEED #1 SUBSTATIO	WRO	Load Interconnection	NA	115 kV	5813904	82	6/1/2027	$ 325	$ 5,565

Project Description

Interconnect a data center to PG&E's Lockheed #1 substation. Install One (1) 115kV Circuit Breaker, associated switches and bus structures. Install approximately 1 mile long single service 115kV T-line (single circuit combination underground & overhead) to customer site from Lockheed #1.

Entity Initiating Project: Third Party
Distribution Components: NA



Project Need

Tthe Interconnection Customer (“IC), has signed Preliminary Engineering Study (PES) with Pacific Gas and Electric Company (PG&E) for LC24-2 (“Project”) to interconnect a data center load PG&E’s Transmission system.

Project & Permitting Status Updates

Construction Start: 09/30/26
CPUC Date Filed: Expected 2026 Q2

*Note: All dollar figures represented in the 000s

T.0009607 - Tulucay-Napa 60kV Line Reconductoring

Project Details

County		Napa
Year of BC Approval		TBD
CAISO Year		2023
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	608
Current Projected Cost	$	5,864
In Service Date		12/14/2026
Project Status		Engineering
Original In-Service Date		12/31/2028
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$477	**$608**	$106	$4,747	$404	$0	$0	$0	$0	**$5,864**
8%		2%	81%	7%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
TULUCAY-NAPA 60KV LINE RECONDUCTORING	Reliability	Line Reconductoring	60	NA	5807341	60	12/14/2026	$ 608	$ 5,864

Project Description

Reconductor approximately 1.38 miles of the Tulucay-Napa #2 60 kV Line from Tulucay to Basalt with a conductor able to achieve at least 1350 Amps of summer emergency rating. The use of Aluminum conductor composite reinforced (ACCR) will be investigated to minimize unnecessary structure replacement.

Entity Initiating Project: CAISO
Distribution Components: NA

Project Need

The Tulucay-Napa 60 kV line is around 3.9 miles long with 65 structures in Napa county. The 2022 planning analysis concluded that during summer peak conditions, the Tulucay – Napa No.2 60 kV Line could overload by 7.0 % in 2032 following an outage of the Tulucay – Napa No. 1 60 kV Line. This line is projected to experience overloading as high as 35.9% for P1 (loss of one transmission component) category outage, with overloads occurring in 2024 and beyond.

Project & Permitting Status Updates

Construction Start: 11/03/26
CPUC Date Filed: Expected 2026 Q2

*Note: All dollar figures represented in the 000s

T.0008334 - Jefferson-Stanford 60kV Rep Pole 06_157

Project Details

County		San Mateo
Year of BC Approval		TBD
CAISO Year		NA
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	370
Current Projected Cost	$	7,743
In Service Date		4/9/2027
Project Status		Engineering
Original In-Service Date		TBD
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$271	**$370**	$195	$1,632	$5,545	$0	$0	$0	$0	**$7,743**
3%		3%	21%	72%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
JEFFERSON-STANFORD 60KV REP POLE 06_157	Asset Condition	Replace Wood Poles	60	NA	5801179	70	4/9/2027	$ 370	$ 7,743

Project Description

This project proposes to replace wood Pole 006/157 on the Jefferson-Stanford 60kV line that is severely deteriorating due to underbuild tension.

Entity Initiating Project: PG&E
Distribution Components: NA

Project Need

This project is needed now to meet PG&E's standard requirement to maintain assets. Mainaining aging assets is not viable. And there is a significant risk of failure on this 60kV transmission line, which could potentially impact electric service and presents a safety hazard to local customers in Menlo Park.

Project & Permitting Status Updates

Construction Start: 03/03/27
CPUC Date Filed: Expected 2026 Q2

*Note: All dollar figures represented in the 000s

T.0010604 - Jefferson-Stanford Cable Replacement

Project Details

County		San Mateo
Year of BC Approval		TBD
CAISO Year		2025
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	91
Current Projected Cost	$	35,187
In Service Date		2/29/2028
Project Status		Engineering
Original In-Service Date		5/1/2029
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$91	**$91**	$117	$8,548	$26,310	$121	$0	$0	$0	**$35,187**
0%		0%	24%	75%	0%	0%	0%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
JEFFERSON-STANFORD CABLE REPLACEMENT	Reliability	Line Reconductoring	60	NA	5811838	60	2/29/2028	$ 91	$ 34,926
MENLO: JEFFERSON-STANFORD UG CABLE RPLC	Reliability	Line Termination	N/A	60 kV	5564267	61	9/10/2027	$-	$ 261

Project Description

Install temporary overhead shoo-fly transmission line to bypass existing underground cable section between Menlo Substation and SLAC 60 kV Tap for continuous electric customer service. Replace 0.9 mile of existing 800 kcmil AL underground cable with larger size cable of at least 1000 Amp. normal capacity

Entity Initiating Project: CAISO
Distribution Components: NA

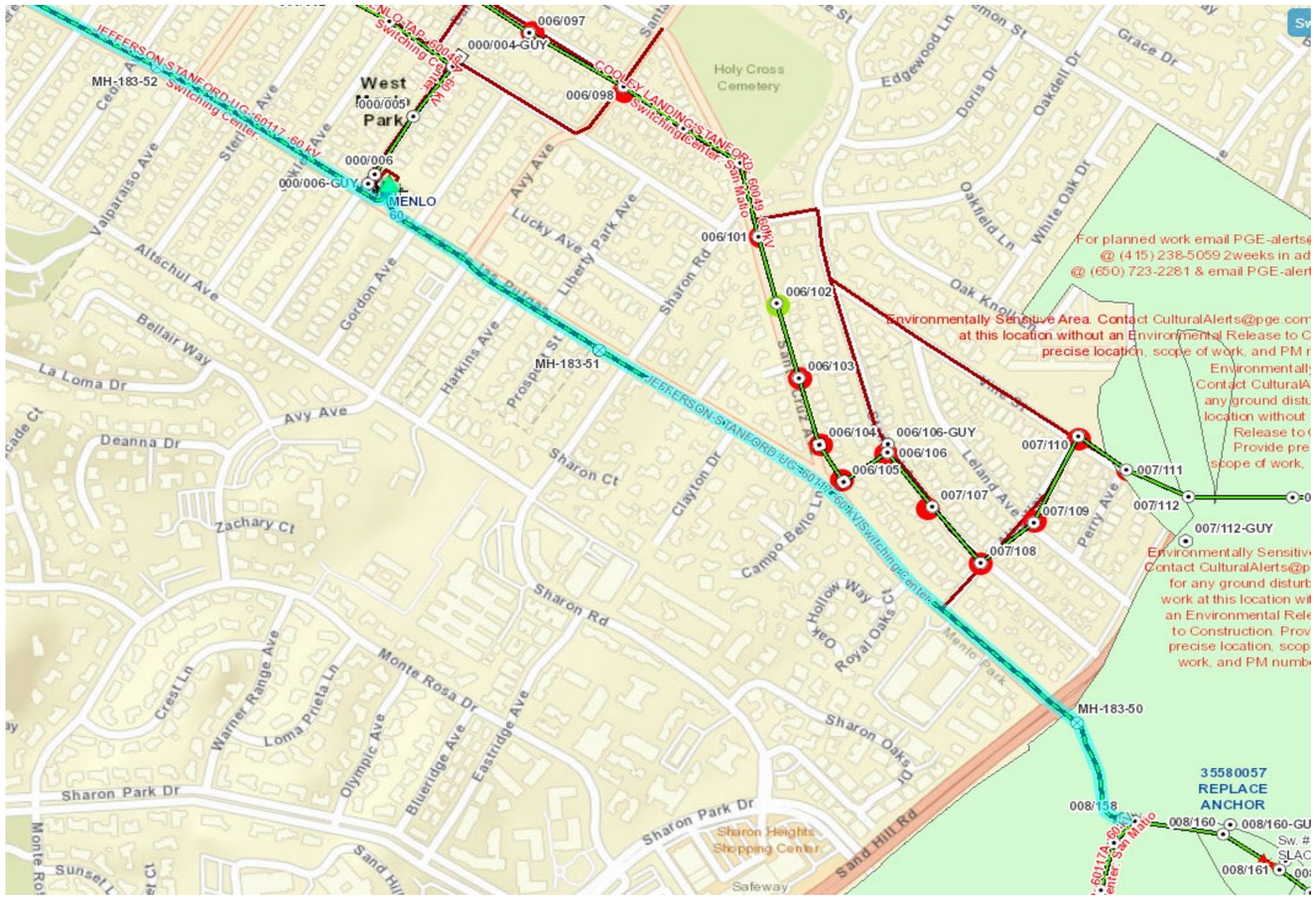
Project Need

Based on the 2023 Ampacity study, it was determined that the underground section between Menlo Substation and 008/158 is the limiting element in the system and may prohibit PG&E on supplying reliable power to SLAC during the switch from the normal 230kV source (Monta Vista-Jefferson #1) to an alternate (60kV) source.

To mitigate overloads on the Jefferson-Stanford 60kV line, it is recommended to replace 0.9 miles of 800kcmil Al conductor between Menlo Substation and structure 008/158 with the higher ampacity pipe-type cable.

Project & Permitting Status Updates

Construction Start: 03/01/27
CPUC Date Filed: Expected 2026 Q3



*Note: All dollar figures represented in the 000s

T.0009603 - Garberville 60kV Area Reinforcement

Project Details

County		Humboldt
Year of BC Approval		TBD
CAISO Year		2023
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	760
Current Projected Cost	$	56,455
In Service Date		12/7/2028
Project Status		Engineering
Original In-Service Date		12/31/2032
Reason for Change in ISD		NA

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$380	**$760**	$171	$1,065	$26,632	$26,414	$689	$573	$151	**$56,455**
1%		0%	2%	47%	47%	1%	1%	0%	

Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
GARBERVILLE 60KV AREA REINFORCEMENT	Reliability	Line Reconductoring	60	60 kV	5807359	60	12/7/2028	$ 760	$ 56,455

Project Description

This project proposes to:
- Reconductor the entire Bridgeville-Garberville 60 kV line to achieve at least 631Amps of summer normal rating (715 AAC conductor) which is about 36 circuit miles in length.
- Install a 20 MVAR STATCOM at Fort Seward 60 kV Substation.
- Establish a control point to open line section from Garberville to Kekawaka 60 kVline.
- Establish a control point to open line section from Rio Dell Jct. to Carlotta 60 kV line.

Entity Initiating Project: CAISO
Distribution Components: N/A

Project Need

This project has been proposed by Transmission Planning which through their analysis is needed due to the rapid growth of agricultural loads being experienced in Humboldt County, with high concentrations in the Garberville area. Garberville Substation receives its power from both the Humboldt and Mendocino sources through the Bridgeville-Garberville and Garberville-Laytonville 60kV lines. Per Transmission Planning, the existing local Garberville area demand including Garberville, Fort Seward, and Fruitland substations is 15.9MW. Projected distribution customer driven load is set to increase the total load to 14.1MW by 2032 and could bring the maximum load for the area to 30MW.

Project & Permitting Status Updates

Construction Start: 06/08/27
CPUC Date Filed: Expected 2026 Q3

*Note: All dollar figures represented in the 000s

T.0004113 - Midway-Temblor 115kV Recon & Voltage Sup

Project Details

County		Kern
Year of BC Approval		TBD
CAISO Year		2013
CPUC Filling Type		NOC
CPUC Status		TBD
CPUC Status Year		TBD
Total Actuals to Date	$	1,655
Current Projected Cost	$	52,990
In Service Date		12/1/2028
Project Status		Engineering
Original In-Service Date		5/1/2018
Reason for Change in ISD		Prioritization

Actual 2025	ITD	Projected 2025	2026	2027	2028	2029	2030	2031	EAC
$969	**$1,655**	$216	$4,633	$27,697	$17,118	$1,670	$0	$0	**$52,990**
2%		0%	9%	52%	32%	3%	0%	0%	

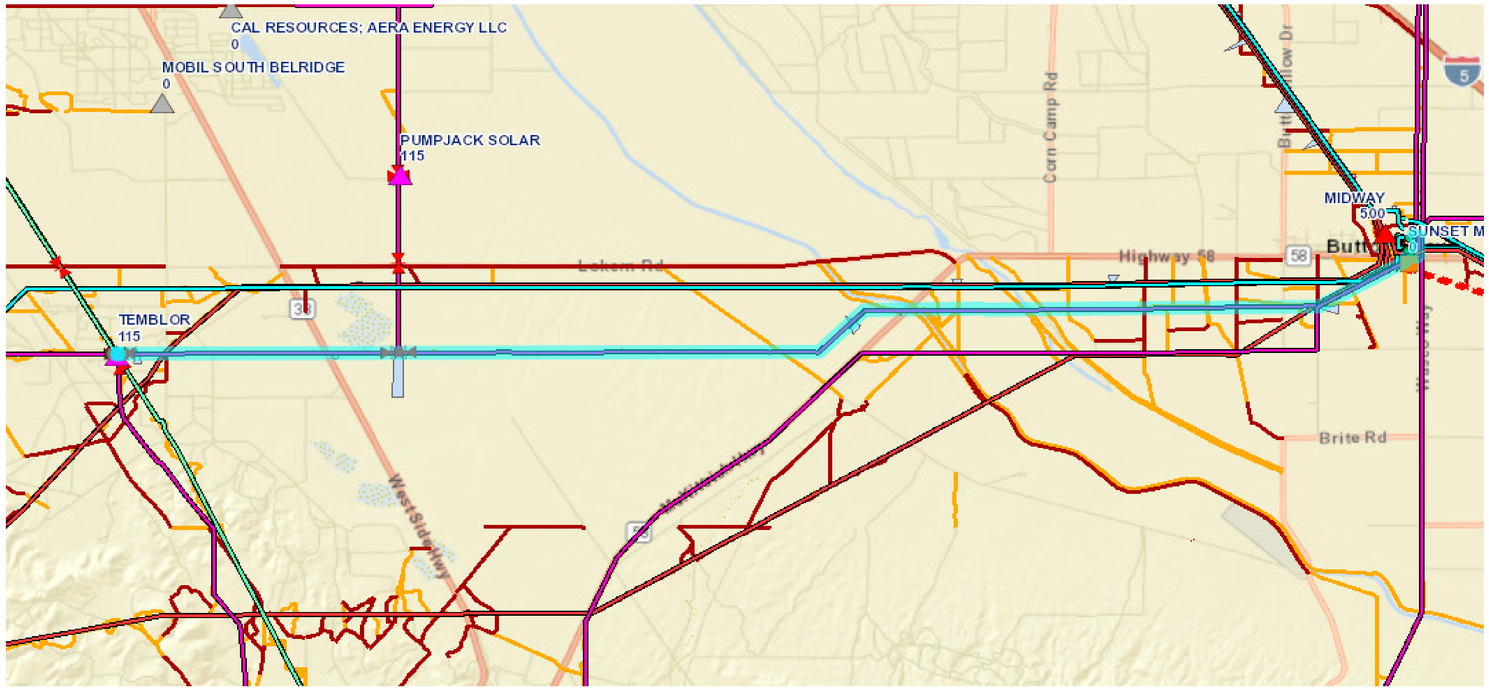
Order Details

Project Name	Primary Purpose	Secondary Purpose	Transmission Voltage Level	Substation Voltage Level	Planning Order	MWC	In Service Date	Inception to Date	Estimated at Completion
MIDWAY-TEMBLOR 115KV RECON ENGINEERING	Reliability	Line Reconductoring	115	NA	5813946	60	3/10/2028	$ 84	$ 9,190
MIDWAY-TEMBLOR 115KV RECON T-LINE	Reliability	Line Reconductoring	115	NA	5781145	60	3/24/2028	$ 805	$ 18,752
MIDWAY-TEMBLOR 115KV VOLTAGE SUP SUBSTAT	Reliability	Voltage Support	NA	115 kV	5781146	61	12/1/2028	$ 767	$ 25,048

Project Description

This project proposes to upgrade 14.5 miles of conductor and four (4) transmission switches (Nos. 137, 139, and 157) on the Midway – Temblor 115 kV Line, and install 39 MVAR shunt capacitors with 13 MVAR steps (a total of 3 steps), and convert existing 115kV bus at Temblor Substation to 5-element ring bus (expandable to 6-element in future).

Entity Initiating Project: CAISO
Distribution Components: N/A



Project Need

This project will help reinforce the 70 kV system in the area around PG&E's Temblor Substation in the southern portion of Kern Division to mitigate thermal overloads caused by significant projected load growth in the area.

Project & Permitting Status Updates

Construction Start: 09/02/27
CPUC Date Filed: Expected 2026 Q3

*Note: All dollar figures represented in the 000s