ID	Network Upgrades	Description	РТО	Study	Type of Upgrade	Category	Status	Trigger Year	Current Expected Construction Start	Expected CPUC Permit Application	Expected In- Service Jan 2024 TDF	Expected In- Service July 2024 TDF	Expected In- Service Jan 2025 TDF (Current)	Agregate MW in Queue with Executed LGIA	Notes
C14P2-GGR10 C14P2-KGR09 C14P2-FPN02 C14P2-FPN05	Claremont (OAK K) 115 NV Circuit breaker 122 overstress Los Banos 230 NV circuit breaker 62 overstress Los Banos 230 NV circuit breaker 525 & 262 overstress Los Banos 2018 N sassigned a 230 NV BAAH Bus Section CB 262 Overtress	Replace Curemont (DAX K) 115 W circuit breaker 122 Replace Kem PP 70 W circuit breaker 62 Relocate CB 262, 242 & 252 and their line terminal to the new 230 M/BAAH bus section. 242 & 252 line terminals Needed for CB 262 Overtress GRNU	PG&E PG&E PG&E PG&E	C14 C14 C14 C14	Reliability Reliability Reliability Reliability	SCD overstress SCD overstress SCD overstress SCD overstress	Removed Removed Removed Removed	2023	7/1/2026	TBD	N/A N/A N/A	TBD TBD Apr-28 TBD	TBD TBD Apr-28 TBD	0 0 0	01:2005 - No longer assigned to Generation Agreements.
C13P1-WGR03 C13P1-GPN04 Impact to C14	Meas Substation 115 N/ CBS 142 overstress Metcall Substation 230 N/ capacitor circuit breakers 654, 664, 674 and 684 overstress. Morro Bay MPAC Palo Alto 115 N/ circuit breakers 412 and 442 overstress	Replace Meas Substation 115 Mr CB 142 with 63 Mr interrupting capability Replace Metal Substation 230 Av capacitor circuit breaker 556-56-66, 674 and 684 New 230Mr MPAC building relocates 230Mr equipment from existing Control Building	PG&E PG&E	C14 C13 n/a RA-21	Reliability Reliability Capacity	SCD overstress SCD overstress MPAC	Removed Removed	2018 2014 2021	7/2/2027 5/12/2028		N/A May-29 May-29 Oct-29	N/A Aug-27 Mar-24 Oct-31	Jan-28 Mar-24 Jan-32	0	(1, 2025 - No longer assigned to Generation Agreements. 10, 2025 - No longer assigned to Generation Agreements. 10, 2025 - No longer assigned to Generation Agreements. 10, 2025 - No longer assigned to Generation Agreements. Cancelled 10, 2025 - No longer assigned to Generation Agreements. Schedule/construction sequencing date.
21rsmt-5 C9P2-F17 C14P2-GGR15	Palo Alto 115 M circuit breakers 412 and 442 overstress Panoche 115 M circuit breakers 152 overstress Patchure Substation 230 M Bus Section F overload enhance conductor rating	Replace Palo Alto 115 KV circuit breakers 412 and 442 with 63 8A interrupting capability Replace Panoche 115 KV circuit breakers 122 and seconized switches/relays Seek enhanced ratios of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 km/s at round-store, accuracy capacitation of 3964/39724 for 2-2390 k	PG&E	RA-21 C9	Reliability Reliability Reliability	SCD overstress SCD overstress Rus Flow	Removed Removed	2021	5/22/2029		Oct-29	Oct-31	Jan-32	0	adjustments. Q1:2025: No longer assigned to Generation Agreements. Q1:2025: No longer Infigured by Generation Agreements. Schedule/construction sequencing date
C14P2-GGR13	Ravenswood 115 kV CB 132 and 142	Replace Ravenswood 115 KV CB 132 and 142	PG&E	C14	Reliability	SCD overstress	Removed				N/A	TBD	TBD	0	adjustments. Q1-2025 - No longer assigned to Generation Agreements.
C14P2-NPT03 C14P2-GPT02 C14P2-GPT03	Rio Dio 230/115 KV Transformer Upgrades San Jose Area HVDC 230 KV Line (Newark - NRS) San Jeon Area HVDC 200 KV Line (Newark - San Jeon	This project will resolve current configuration issues, address reliability and capacity concerns, and alleviate high- to build two HVDC lines, 1) from Newark 230 kV to NRS 230 kV and 2) Motcalf 500 kV to San Jose B 115 kV. To build two HVDC lines, 11 from Newark 230 kV to NRS 230 kV and 2) Motcalf 500 kV to San Jose B 115 kV.	PG&E PG&E	LS Power	Capacity Capacity	Bus Upgrade HVDC	Removed Removed	2022	7/5/2022 10/17/2025	TBD	Apr-26 Apr-28	Apr-26 Apr-28	Apr-28	0	Q1-2025 - No longer assigned to Generation Agreements. Q1-2025 - No longer assigned to Generation Agreements. Q1-2025 - No longer assigned to Generation Agreements.
21rsmt-SCD-23 part of C13P1-FPT02	Equipment Upgrade at CCSF Owned Warnerville 230 kV Substation	Replace Overstressed Groute Breakers Upgrade limiting equipment at Warnerville 230kV - Install new jumpers, switches and new relays at the Warnerville	PG&E e 230kV Sub	RA-21 C13	Reliability Capacity	SCD overstress (blank)	In-Service In-Service	2011	1/12/2024 2/16/2023	N/A	May-25 Apr-23	May-25 Apr-23	Dec-24 Apr-23	0	Ch-Service In-Service
C12P2-PNU-02 C9P2-F13-F15 C12P1-NPT01	Gates 230 kV circuit breakers 352, 362 and 372 overstress mitigation (Cap Banks) Gates 230kV Bus Section E and CB 312, 322, 2102, 2202 overload mitigation (BAAH) Gold Hill Substation 115 kV circuit breakers 142 and 172 overstress	Replace Gates 230 kV circuit breakers 352, 362 and 372 with 63 kA interrupting capability Gates Substation 230 kV circuit breakers 312, 322, 2102, 2202 overload – convert bus section E to BAAH and mov Replace Gold HIII Substation 115 kV circuit breakers 142 and 172 and associated switches/relass.	PG&E e Panoche-G PG&F	C12 2 C9	Reliability Reliability Reliability	SCD overstress Bus Flow SCD overstress	In-Service In-Service	2022 2019 2021	10/24/2022 8/6/2021 3/1/2024		Jul-23 Apr-23 Nov.24	Jul-23 Apr-23 Doc-24	Jul-23 Apr-23 Nov-24	2,340 2,660	In-Service In-Service In-Service
C12P1-NPN02 22rsmt-3	Lodi Substation 60 kV circuit breakers 12 and 22 overstress Metcalf 230 kV Substation Circuit Breaker #No 292 Upgrade	replants used insulational 22 ks (2001) replants used in 22 ks (2001) replants used insulations and insulation representation (2001) replants used insulations and insulation representation (2001) re	PG&E PG&E	C12 RA-22	TPP TPP-Approved	SCD overstress (blank)	In-Service In-Service	2011 2022	8/4/2020		May-22	May-22 Sep-22	May-22 Sep-22	0	In-Service In-Service
C13P1-GPN04 20rsmt-3 C11P2-FP01	Metcalf Substation 230 kV capacitor circuit breakers interim Solution Midway 230 kV Bus Section E overload mitigation Midway 500 kV circuit breakers 732, 802, 832 and 842 overstress	Metcalf Substation 230 kV capacitor circuit breakers interim Solution Replace limiting conductor and/or fittings on Bus Section E to achieve 3372 A min. rating Replace Midway 500 kV circuit breakers 732, 802, 832 and 842 and associated switches/relays	PG&E PG&E PG&E	C13 RA-20 C11	Reliability Reliability Reliability	SCD overstress Bus Flow SCD overstress	In-Service In-Service	2018 2021 2021	10/10/2022		Nov-22 Jul-22 Aug-22	Nov-22 Jul-22 Aug-22	Nov-22 Jul-22 Aug-22	0 410 2.300	In-Service In-Service
C11P2-FC01	Midway 500kV CB's 722 Overstress Midway Substation 500 M/ CB 712 overstress	Midway Sub: Replace 500kV CB's 722, SW's and Relays Replace Midway Substation 500 kV CB 712 with 63 kA interrupting capability	PG&E	C11	Reliability	SCD overstress	In-Service	2021	9/30/2022		Sep-22	Sep-22	Sep-22	2,300	In-Service
C13P2-GRN03 C13P2-SPN01 C13P2-SGR01	Midway Substation 500 kV Control Building Midway Substation 500 kV control Building Midway Substation 500 kV witches 721 & 723 overload.	Insplace Mildway Sobration Study Co. 8 712 Will 63 so interrupting capability Existing PG&E project to replace the 500 kV Control Building at Midway (Needed for Midway RAS) Replace Midway 500 kV Switch 721 & 723 to achieve 4000 A normal rating	PG&E	C13	Reliability Reliability	RAS (Reliability)	In-Service In-Service	2024	3/1/2022		N/A N/A	Mar-23	Mar-23 Nov.24	1,950	In-Service In-Service
C12P2-KC01 21rsmt-4	Midway Substation 500kV CB 722 Overload mitigation Monta Vista 115 kV circuit breaker 1322 overstress	Replace Midway 500 kV CB 722 to achieve 3600 A emergency rating Replace Monta Vista 115 W circuit breaker 1322	PG&E PG&E	C12 RA-21	Reliability TPP	Bus Flow SCD overstress	In-Service In-Service	2021 2021	12/31/2022		Sep-22 Oct-21	Sep-22 Oct-21	Sep-22 Oct-21	2,675 1.200	In-Service In-Service
C8P2-3 C8P2-6	QCBRAS-08 RAS (Deliverability Triggered RNU) Re-conductor Los Banos-Q779 SS #1 230 kV Line	QCBRAS-08 RAS to trip Generation offline for outage AND overload of either Gates 500/230 kV Transformer Bank: Re-conductor 4.5 mi Los Banos-Padre Flat SS #1 230 kV Line with 1113 ACSS and upgrade equipment to 1900 A.	11 or 12	C8 C8	Deliverability Deliverability	RAS (Deliverability) Re-conductor	In-Service In-Service	2017 2017	10/24/2022		May-24 Dec-22	Sep-24 Dec-22	Oct-24 Dec-22	3,139 200	In-Service In-Service
C8P1-35 C9P2-N09	Re-conductor Los Banos-Quinto SS 230 kV Line Re-conductor Stockton A-Weber #3 60 kV Line (Stockton A-Hazelton Ict)	Re-conductor 6.11 mi Quinto Sw Sta-Los Banos 230 kV Line with super bundled 795 ACSS Re-conductor 0.9 mi of Stockton A-Weber #3 60 kV Line from Stockton A to Hazelton Lct Pole 000/026 with 715 A/	AC.	C8 C9	Deliverability Reliability	Re-conductor Re-conductor	In-Service In-Service	2017 2018	3/3/2022 1/14/2022		May-23 Feb-22	May-23 Feb-22	Feb-22	210 0	In-Service In-Service
20rsmt-7a C13P2-GGR01	Tesla 500 kV circuit breaker 632 overstress Tesla 500 kV circuit breakers 632 overstress Tesla Substation 230 kV bus section C-D and circuit breakers 372, 382 and 842 overstress	Replace Tesla 500 kV circuit breaker 632 with 63 kA interrupting capability Replace Tesla 500 kV circuit breaker 622 with 63 kA interrupting capability. Only went to 50 kA	PG&E PG&E	RA-20 C13	Reliability Reliability	SCD overstress SCD overstress	In-Service In-Service	2021 2021	12/3/2021		Dec-21 Dec-21	Dec-21 Dec-21	Dec-21 Dec-21	910 600	In-Service In-Service
C11P2-NC01	(reactors) TESLA: 230KV BUS REACTORS C - D	Increase Tesla Substation 230 kV series bus reactors between bus section C and D and D and E	PG&E	C11	Reliability	SCD overstress	In-Service	2019	6/15/2023	N/A	Apr-24	Mar-24	Mar-24	1,512	In-Service
C11P2-NC01	Tasia Substation 230 kV bus section D-E and circuit breakers 372, 382 and 842 overstress (reactors) TESIA: 230KV BUS REACTORS D - E	Increase Testa Substation 230 MV series bus reactors between bus section C and D and D and E	PG&E	C11	TPP-Approved	SCD overstress	In-Service	2019	4/19/2022	N/A	Jun-23	Mar-24	Jun-23	1,512	In-Service
C13P1-FPT02	Warnerville-Bellota 230 kV line reconductoring	The project proposes to remotice 45 certout mises of the 230 by transmission into between sentral, Lottes, and Warnerville substations with 1113 kirnsl steel-supported aluminum conductors with emergency capability of 1890 Amps. The project includes the installation of a new Optical Ground Wire (D/SW) that will replace the existing	PG&E	C13	Deliverability	Re-conductor	In-Service	2013	6/1/2022	NOC: AL 6047-E	Apr-24	Mar-24	Mar-24	400	In-Service
20rsmt-6 C14P1-GGR03 C12P1-GPT01	20RSMTRAS-02 (Reliability) to open Bitterwater Sw Sta-Wheeler Ridge #2 230 kV Line for loss of M Ames Distribution 115 kV circuit breaker 112 & 122 overstress	206SMTRAS-02 RAS to open Bitterwater Sw Sta-Wheeler Ridge #2 230 kV Line for loss of Midway-Bitterwater 230 Replace Ames Distribution 115 kV circuit breakers 112 & 122	PG&E PG&E	RA-20 C14	Reliability Reliability	RAS (Reliability) SCD overstress	In-Flight Not Assigned	2020	1/14/2027		Jul-25 N/A	Jul-26 TBD	Jul-27 TBD	100	Q1-2025 - construction sequencing / dependency delays Q1-2025 - No longer assigned to Generation Agreements.
C12P2-LDNU3	Ames Distribution 115 KV circuit breaker 132 overstress Bellota-Riverbank-Melones Sw Sta 115 kV Line 115 kV Line Reconductor	Replace Ames Distribution 115 kV circuit breaker 132 Reconductor a total of 17 miles of Bellota-Riverbank-Melones SW STA 115 kV Line with 477 ACSS	PG&E PG&E	C12	Reliability Deliverability	SCD overstress Re-conductor	In-Flight In-Flight	2019 2021	1/28/2026 1/25/2028	6/25/2025	Mar-28 Aug-28	Nov-28	Mar-26 Jan-29	250 99	Q1-2025 - Construction sequencing adjustments. Q1-2025 - scoping and construction sequencing / dependency delays
C14P2-GGR14 C14P2-NFT04	Birds Landing Sw Sta 230 kV CB 212, 412 overload mitigation Borden-Storey 230 kV 1 and 2 Line Reconductoring	Upgrade Birds Landing Sw Sta 230 kV bay 2 to 3000 A equipment and replacing 3 circuit breakers and associated s Reconductoring the Borden – Storey section(s) of the Wilson – Storey #1 and #2 230 kV lines	PG&E PG&E	C14	Reliability Deliverability	Bus Flow Re-conductor	Not Triggered Initiating	2023	11/6/2028	TBD	N/A May-29	TBD May-29	TBD Apr-30	600	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Project recently triggered by Generation Contracts Project rekicked off. Long lead material
C11P2-NP02 C11P2-NP01	Contra Costa 230kV Bus Sections D, E and F and circuit breaker 820 overload. Replaced by Line relo Contra Costa 230kV SW's 601, 603 overload. Replaced by Line relocation project	Contra Costa PP: Reconductor Bus Sections D, E and F. Replace circuit breaker 820.	PG&E	C11	Reliability Reliability	Bus Flow Bus Flow	Replaced	2021 2021	9/30/2024		May-25	May-25	Sep-25		orders in Q3 2025. Q3-2024 - See C11P2-NP02, C11P2-NP01 Line Reconfiguration notes
C11P2-NP01	Contra Costa PP 230 kV Line Terminals Reconfiguration Project	Contra Costa PP- Reconductor Bus Sections D, E and F. Replace circuit breaker 82.0. Contra Costa PP- Replace 2004/SVF 601 & 603 and jumpers. Swap that cone Test lies and Birds Landing Was SL. like between Sec. 20 and Sec 2E and Move the Wind Master (lobal) lies to section 2E. Replaces the need for: Contra Costa 230M bis Sections D, E and F and circuit breaker 820 overload	PG&E PG&E	C11	Reliability	Bus Flow	Replaced In-Flight	2022	12/6/2024	N/A	May-25	May-25 May-25	Sep-25 Sep-25	200	QD-2024 - See CLIP2-PPUL CHIP reconsignation notes
C13P1-KPN02	Convert Midway Substation 230 kV Bus D to BAAH	Contra Costa 230kV SW's 601, 603 overload Convert Midway Substation 230 kV to BAAH in order to install bus reactors & RAS	PG&E	C13	Reliability	SCD overstress	In-Flight	2016	2/17/2028		Feb-30	Jan-28	Aug-30	1,950	Q1-2025 - Project ISD delayed due to schedule/clearance/construction adjustments
C14P2-NPT01 C14P1-NGR02	Cortina 230/115/60 kV Transformer Bank No. 1 Replacement Project Cottonwood 230 kV circuit breaker 272 & 292 overstress	The scope of this project is to replace the Cortina 230/115/60 W Bank #1 with one 230/115 kV and one 115/60 k. Replace Cottonwood 230 kV circuit breaker 27 8 A 292 Replace Cottonwood 60 kV circuit breaker 27 32 A, 21, 25, 26, 22 Cottonwood Substation 230 kV CB Overstress: Replace CB 522 & 542 (oated @ 34 5KA, overstress close in Fault is 1	PG&E PG&E PG&E	C14 C14 RA-22	Deliverability Reliability	Transformer SCD overstress	In-Flight Not Triggered	2022	4/1/2027	TBD	Jun-28 N/A N/A	Jun-28 TBD TBD	Sep-27 TBD TBD	0	01-2025 - construction sequencing. Mitigation will not be complete until last phase of the project. Q1-2025 - Project ISD improvements. Q1-2025 - Not triggered by Generation Agreements.
22rsmt-2 C8P2-15	Cottonwood 60 kV many CB overstress upgrade Cottonwood Substation 230 kV Circuit Breaker 522 and 542 Overstress	Replace Cottonwood 60 kV circuit breakers 22, 32, 42, 52, 62, 82 Cottonwood Substation 230 kV CB Overstress: Replace CB 522 & 542 (rated @ 34.5KA, overstress close-in fault is:	PG&E 35,179A or 2	RA-22 9 C8	Reliability Reliability Reliability	SCD overstress SCD overstress	Not Triggered In-Flight	2018	6/9/2025		N/A Feb-25	TBD Dec-25	Dec-25	0	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Chedule/construction sequencing date adjustments.
C11P2-NRD1 C14P1-NLD02	Cottonwood Substation 230 kV circuit breakers 222, 232, 242 overstress Eagle Rock-Cortina 115 kV Line (Lower Lake Sw Sta-Highland J2-Cache J)	Reconductor 2.5 miles of Eagle Rock-Cortina 115 kV (Lower Lake SW STA-Highland I2 section) to 477 ACSS and upg	PG&E	C11 C14	Reliability Deliverability	SCD overstress Re-conductor	In-Flight Not Triggered	2022	8/5/2025			Aug-27 TBD Jul-29	Jul-26 TBD Mar-29	0	Q1-2025 - Schedule/construction sequencing date adjustments. Q1-2025 - Not triggered by Generation Agreements.
C14P2-NFT01 C12P2-GRNU2 C14P1-NI D05	Extrella Substation Project Gates Substation 230 kV Bus Overstress (Reactors on Bus E and F) Gates Substation 231 kV Bus Overstress (Reactors on Bus E and F) Gates (F) Council (B) C Extra Council (B) C Extr	Construct and own the new Estrella 230/70/21 kV Substation and associated transmission line work as defined by install series bus reactors between Gates Substation 230 kV bus sections E and F accordance wiles of Course 25 Closed Sub-MST to Closed Sub-Vision 2472 ECCS and upper department of the Course Substation 230 kV bus sections and F accordance wiles of Course 25 Closed Sub-Vision 240 KV bus Substation 230 kV bus sections E and F	PG&E		Reliability	SCD overstress	Not Triggered In-Flight	2023 2022	3/3/2025	PTC: A.17-01-023	Apr-26	Jul-29 Apr-26	Apr-26	2.150	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - no changes Q1-2025 - no changes
C14P1-NLD05 C13P1-FL001 21rsmt-1	Geyser #3-Cloverdale 115 kV Line (Aidlin SwSta-Cloverdale) Helm-Crescent Sw Sta 70 kV Line Reconductor Henrietta Substation 70kV C8s 12 and 72 Overstress Monthal Tourishnee Pale #17	Reconductor 8 miles of Geyera #3-Clowerdals (IMP Tap Clowerdals IST 15 V to 477 ACSS and upgrade any limiting eq. Reconductor 8 miles of Geyera #3-Clowerdals (IMP Tap Clowerdals IST 15 V to 477 ACSS and upgrade any limiting eq. Reconductor a total of 4.77 miles of Helm Crescent Sw Sta 70 VV Line with 1113 AAC and upgrade any limiting eq. Hemistets Swis Replace 70 VK of 12 & 72 and switches.	PG&E PG&E PG&E	C14 C13 RA-21	Deliverability Deliverability Reliability	Re-conductor Re-conductor SCD overstress	Not Triggered Not Triggered Not Triggered	2021	5/17/2027		N/A N/A Oct-26	N/A Nov-27	TBD TBD Mar-29	0	01:2025 - Not triggered by Generation Agreements. 01:2025 - Not triggered by Generation Agreements. 01:2025 - Not triggered by Generation Agreements.
21rsmt-1 C14P2-NLD07 21rsmt-3	Kern PP Substation 115 kV CBs 182, 262 and 282 overstress (BAAH Conversion Phase 1 - incl CB28	Henrietts Subs. Registacs 700x CB 17 8 72 and switches. Registac Hopland 115/60 kV Transformer dask KV with 3-phase 100/110 MVA transformer with LTC Kern PP Subs Chisting PGSE 115 V BAAH conversion project will cover this replacement.	PG&E PG&E	RA-21	Deliverability Reliability	SCD overstress	Not Triggered Not Triggered	2021	7/9/2021		N/A Nov-24	TBD Mar-25	TBD Mar-25	0	Q1-2025 - No longer triggered by Generation Agreements.
21rsmt-3 21rsmt-3	Kern PP Substation 115 NV CBs 182, 262 and 282 overstress (BAAH Conversion Phase 3 - incl CB26 Kern PP Substation 115 NV CBs 182, 262 and 282 overstress (BAAH Conversion Phase 4 - incl CB18 Los Banos 230 NV circuit breakers 212 & 222 overstress	Kern PP Sub: Existing PG&E 115 kV BAAH conversion project will cover this replacement. Kern PP Sub: Existing PG&E 115 kV BAAH conversion project will cover this replacement. Replace to S Banos 230 kV circuit breakers 212 & 222	PG&E	RA-21 RA-21 C14	Reliability	SCD overstress	Not Triggered Not Triggered	2021 2021	1/8/2026 11/1/2027 7/1/2026	TBD	Dec-26 Dec-27	Mar-25 Mar-25		0	01-2025 - No longer triggered by Generation Agreements. Q1-2025 - No longer triggered by Generation Agreements. Q1-2025 - Not triggered by Generation Agreements.
C14P2-FPN03 C14P2-FGR04 C12P2-LDNU4 overlap	Los Banos 290 kV circuit breakers 922, 822 overstress Manteca-Ripon-Riverbank-Melones Area 115 kV Line Reconductoring Project	Neplace Los Blanos 230 kV circuit breakers 21.2 & 2.22 Reconductor 2.4 miles between Manteca and Ripon kt and 1.8 miles between Riverbank SW STA and Valley Home	PG&E PG&E	C14	Reliability Capacity	SCD overstress SCD overstress Re-conductor	Initiating In-Flight	2023 2024 2022	4/18/2028	TBD	N/A N/A Feb-29	Apr-28 TBD Feb-29	Apr-28 Mar-30 Oct-27	1,150 99	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Recently triggered by Generation Agreement Q1-2025 - Sheemble frontruction sension for date adjustments
20rsmt-4	Metcalf 115kV breakers Overstress (almost all breakers), install bus reactors on 230kV banks due t	Install 4-3 ohm reactors at low side of Metcalf 115 kV 230kV Transformers	PG&E	RA-20	Reliability	SCD overstress	In-Flight	2020	3/24/2026		Mar-27	Dec-29	Apr-27	750	Qui 2005 - Next triggeties by organization regressments: Qui 2005 - Meeting his own triggeties by demans study agreement Qui 2005 - Meeting his quiped by General study agreement Qui 2005 - Shookaly/construction sequencing date adjustments. Qui 2005 - Scope payoral pleaned 27/2005. Scope reduced to installing reactors, Long Lead times reduced Ordering 3/2005. Dependent on the Meetaal MMPAC project with 50 of 4/19/27. Exiter 50 dependent on MMPAC construction plassing.
C14P2-GGR17 C14P1-KGR11	Midway 230 KV reactor replacement Midway 500 KV CB 742, 822, 912, 932, 942 Overstress Midway 500 KV CB 742, 822, 912, 932, 942 Overstress Midway 500 KV CB 742, 822, 912, 912, 912, 912, 912, 912, 912, 9	Replace existing 9 ohm Midway 500/230 kV reactors with 13 ohm reactors, Replace Midway 500 kV CB 742, 822, 912, 942 Replace Midway 500 kV CB 742, 822, 912, 942 Replace Midway 500 kV CB 742, 822, 912, 942 Replace Midway 500 kV CB 742, 822, 912, 942	PG&E	C14 C14	Reliability	Reactor Upgrade SCD overstress SCD overstress	Initiating	2024			N/A N/A N/A	TBD TBD Oct-30	TBD TBD Oct-30	1,150	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Recently triggered by Generation Agreement. Q1-2025 - no changes
C13P1-KGR05 C14P2-SGR01 C12P1-GCR01 C11P2-GP01	Midway Substation 230 kV bus and 27 circuit breakers overstress - Revised to Install Bus Reactors I Midway Substation 500 kV circuit breaker 712 overioad mitigation Moraea 115 kV circuit breakers 582, 612, 622, 642 and 712 overstress	regrace findway 50U bY CB 747, SEZ, 912, 942. Replace Midway 50U bY CB 742, SEZ, 912, 942. Replace Midway 500 bY CB 712, switches and jumpers to achieve 4000 A normal rating Replace Midway 500 bY CB 712, switches and jumpers to achieve 4000 A normal rating Replace Moraga 115 bY circuit breakers 582, 612, 622, 642 and 712.	PG&E	C14	Reliability	Bus Flow SCD overstress	Not Triggered	2022	3/21/2030		N/A Feb.24	TBD Dec-26	TBD Feb-32	0	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Not triggered by Generation Agreements.
C11P2-GP01 22rsmt-4	Moraga 115 kV circuit breakers 582, 612, 622, 642 and 712 overstress Moraga-Castro Valley 230 kV Line Capacity Increase Project New 230 kV switching station to loop Dos Amigos – Panoche # 3 230 kV	The project scope of work involves upgrading the limiting substation equipment [jumper conductors and wave tray Build a new 2 bay 230 kV BAAH switching station to loop in the Dos Amigos – Panoche # 3 230 kV Line requiring ac	PG&E PG&E	C11 RA-22 LS Power C14	Deliverability Deliverability Capacity	Re-conductor New Station New Station SCD overstress	In-Flight In-Flight	2011	7/S/2024 9/21/2029	N/A	Mar-26 Dec-28 Dec-27	Nov-24 Dec-28	May-25 Mar-30 Jun-28	200 1,150	Q1-2025 - Schedule/construction sequencing date adjustments. Q1-2025 - Schedule/construction sequencing date adjustments.
22rsmt.4 C14P2-NFT02 C14P1-GGR06	Newark 115 kV bus overstress beyond 63 kA	regimen immigración y en consideration de la consideration de la consideration equipment (jumper conductors and wave trap The project scope of work involves segreding the limiting substation equipment (jumper conductors and wave trap Build a new 2 bay 2 30 W BAHF well-ching station to loop in the box Amigos — Panoche #3 230 W Line requiring a Panoche scope of the project includes a new 50/2/30 W vosterion (Manning), looping in the Mid way — Los Banos and listatil service bus reactors between Newart Substation 115 W bus secono E and F Analysis Monarch 2001 V cm a best decided the beacher 272, a 684, 8 secono E and F	PG&E PG&E	LS Power C14	Capacity Reliability	New Station SCD overstress	In-Flight Not Triggered	2023	6/1/2026	TBD	N/A	Dec-27 TBD	Jun-28 TBD TBD	950	Q1-2025 - Schedule/construction sequencing date adjustments. Q1-2025 - Not triggered by Generation Agreements.
C14P1-GGR07 C11P2-ND03 see C12P1-GCR01	Newark 230 KV cap bank circuit breakers 974, 984 & 994 overstress North Dublin-Cayetano 230 kV Line Oakland Cean Energy Initiative (MORAGA 115KV BUS UPGRADE & BK 3 SW)	Replace Newark 230 KV cap bank circuit breakers 974, 984 & 994 Reconductor North Dublin-Cayetano 230 KV Line 2.63 miles OH Line & 2.82 UG cable with new UG cable 797 MVA, The project will install two bus-sectionalizing circuit breakers and one bus-tie breaker on the 115 KV buses at Mora-	PG&E	C14	Renability	SCD overstress Re-conductor SCD overstress	Not Triggered In-Flight Not Triggered	2021 2018	10/7/2025 11/16/2021	N/A	N/A Jan-25 Apr-25	Mar-25 Apr-25	May-26	300	21. 2025 - Not triggered by Generation Agreements. 21. 2025 - Schedule/construction sequencing date adjustments due to predecessor dependencies. 21. 2025 - Not triggered by Generation Agreements.
C13P1-FPT03 C14P2-GGR11	Oro Loma 70 kV Area Reinforcement Palermo 115 kV CB 152 overstress	The Oro Loma 70 kV Area Reinforcement project will reconductor 2.4 miles of the Los Banos - Livingston Jct Cana Replace Palermo 115 kV CB 152	PG&E PG&E	C13 C14	Capacity Reliability	Re-conductor SCD overstress	In-Flight Not Triggered	2011	9/15/2027	C - TBD on Filing D	Jan-27 N/A	Jan-27 TBD	Aug-28 TBD	75	01.2025 - Recently trippered by Generation Agreement
22rsmt-1 C14P2-FPN06	Panoche 115 kV Circuit Breaker Replacement and 230 kV Bus Upgrade project Panoche 115 kV circuit breakers 132 & 152 overstress	Replace 115 kV circuit breakers 132, 152, 102 and 162, install a new MPAC building for the 115 kV bus section, cor (blank)	PG&E PG&E	RA-22 C14	Capacity Reliability	Bus Upgrade SCD overstress	In-Flight In-Flight	2023	4/20/2026	TBD	Jun-28 N/A	Jun-28 N/A	Mar-28 Mar-28	150 150	Q1:2035 - Not triggered by Generation Agreements. Q1:2035 - Schedule/construction sequencing atte adjustments. Q1:2035 - Schedule/construction sequencing atte adjustments. Q1:2035 - Recently vitagered by Generation Agreements - Schedule/construction sequencing date
C14P2-FPN07	Panoche 230 kV bus overstress above 40 kA design and circuit breakers 212, 232, 242, 252, 262, 2	(blank)	PG&E	C14	Reliability	SCD overstress	In-Flight				N/A	Apr-28	Jan-28	-,	adjustments. Q1.2025 - Recently triggered by Generation Agreements. Schedule/construction sequencing date adjustments.
C14P1-GGD01 C14P2-GPN01	PGAE 250 QC14P1RAS-03-gbay-tassajara-q1877ss-overload-RAS PRtsburg 115 kV bus overstress. Bus D-E 115kV Buss Reactors PRtsburg 230 kV bus overstress. Bus D-E 230kV Buss Reactors	RAS to trips Q1877 at Q1877SS Switching Station when an overload occurs in GRANT-Q1877SS or Q1877SS-EASTS Install bus reactors between 115 N sections D & E Install bus reactors between 230 N sections D & E	PG&E	C14 C14	Reliability	RAS (Reliability) SCD overstress	Not Triggered Not Triggered Not Triggered	2023	10/7/2027	TBD	N/A N/A	TBD May-28	TBD May-28	0	01: 2025 - Not triggered by Generation Agreements. Q1: 2025 - Not triggered by Generation Agreements. Q1: 2025 - Not triggered by Generation Agreements.
C14P2-GGR12 C14P2-GGR16 C13P1-KGR01	PRESBURG 230 AV bus overstress. Bus D-E 230KV Buss Reactors PERSBURG SUBSTAINT 15 KV Bus Section E overload. Reconductor/Reinforce Bus. QC13P2RAS-04 Midway 500/230 kV Transformer Overload RAS	Install bus reactors between 230 kV sections 0 & E Reconductor but to 3-2300 km. Evaluate and Reinforce Structures. QC13P2RAS-04 Modify existing Midway 500/230 kV transformer overload SPS to include transformer outage dete	PG&E PG&E	C14 C14 C13	Reliability Reliability	SCD overstress Bus Flow RAS (Reliability)	Not Triggered	2024			N/A N/A N/A	TBD TBD	TBD TBD Oct-30	0	Q1-2025 - Not triggered by demeration Agreements.
C8P2-10	QCSRAS-02 SPS (Deliverability Triggered RNU)	QCSSPS-02 SPS to modify the existing Hatchet Ridge SPS to trip Q1106 200 M/W wind and Hatchet Ridge 102 M/W	wind for the	r C8	Reliability Deliverability	RAS (Deliverability)	in-Flight In-Flight	2017	8/20/2026		Dec-28	Oct-30 Oct-25	Mar-27	200	Q1-2025 - Recently triggered by Generation Agreements. Q1-2025 - Schedule/construction sequencing date adjustments. Dependency on Midway 230kV Building
C14P2-GPT04 C8P2-1	Ravenswood 115 kV CB 152, 312, 322 overstress Re-conductor Borden-Gregg #1 230 kV Line	Re-conductor 6.25 mi Borden-Gregg #1 230 kV Line with 1113 ACSS and upgrade equipment to 2000 A minimum (PG&E (this is the ex	8 08	Deliverability	SCD overstress Re-conductor	In-Flight	2017	8/14/2026	10/11/2024	N/A May-26	TBD Jan-27	TBD Jan-27	0 800	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Schedule/construction sequencing date adjustments. IFC planned Feb 2025.
C9P1-F12 C9P1-F11	Re-conductor Borden-Gregg #2 230 kV Line Re-conductor Dos Amigos PP-Panoche #3 230 kV Line	Re-conductor 6.25 mi Borden-Gregg #2 230 kV Line with 1113 ACSS Re-conductor 23.63 mi Dos Amigos PP-Panoche #3 230 kV Line with 795 ACSS		C9	Deliverability Deliverability	Re-conductor Re-conductor	In-Flight In-Flight	2017 2017	1/11/2027 2/18/2025	10/11/2024	Jan-26 May-26	May-27 May-26	May-27 May-26	1.150	Q1-2025 - Schedule/construction sequencing date adjustments. IFC planned Feb 2025. Q1-2025 - no changes
C11P2-ND01 C9P2-N02 C8P1-34	Re-conductor Fulton-Hopland 60 kV Line (Fitch Mountain Tap-Geysers Jct) [24 mile section) Re-conductor Fulton-Hopland 60 kV Line (Geysers Jct-Cloverdale Jct-Hopland) (7 mile section)	Re-conductor Fulton-Hopland 60 kV Line (Fitch Mountain Tap 009/005A-Geyers kt 016/004) "7 mitotal length v Re-conductor 24.21 mi Fulton-Hopland 60 kV Line (Geyers kt 016/003A-Cloverdale kt 026/002-Hopland) with 7:	PG&E 15 AAC and u	C11 G C9	Deliverability Deliverability Deliverability	Re-conductor Re-conductor	In-Flight In-Flight	2018 2019	2/16/2025 10/20/2025 2/3/2027 9/21/2023	1/21/2025	Mar-26 Mar-26 May-25	Feb-27 Mar-27 May-25	Feb-27 Mar-27 May-25	230 230	Q1-2025 - no changes Q1-2025 - no changes
CSP1-34 C12P1-NPT03 C12P2-LDNU1	Re-conductor Padre Flat SS-Panoche #1 230 kV Line Ni O Ss Substation 115 kV circuit breakers 412, 422, 482, 522 and 542 overstress Ripon-Manteca 115 kV Line Reconductor	Re-conductor 32.59 mi Q779/Padre Fix SS-Panoche #1.20 kV Line with 795 ACSS Replace Rio Oso Substation 115 kV circuit breakers 412, 422, 482, 522 and 542 and associated switches/relays Reconductor Ripon-Manteca 115 kV line 1.51 mi section of 2/0 CU and 0.92 mi 4/0 ACSR (2.43 mi total)	PG&E PG&E PG&E	LIZ	Reliability	Re-conductor SCD overstress Re-conductor	In-Flight Not Triggered In-Flight	2017 2020 2021	9/21/2023 6/1/2021 3/8/2027	2/10/2023	May-25 Dec-24 May-27	May-25 May-25 Oct-27	May-25 May-25 Apr-28	0	Q1-2025 - no changes Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Schedule/construction sequencing date adjustments.
C14P2-NPT02 19rsmt-3	Round Mountain 500 kV Dynamic Voltage Support Schindler 70kV Bus Normal & Outage Overload	This project will support connection of the new 500kV substation between Round Mountain (RM) and Table Mount Upgrade Schindler 70 kV Bus to 1113 kcmil AAC	PG&E PG&E	LS Power RA-19	Capacity Reliability	HVDC Bus Flow	Not Triggered Not Triggered	2019	2/15/2023	N/A	Dec-24 N/A	Dec-24 N/A	lun-25 N/A	0	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Not triggered by Generation Agreements.
C14P1-GGR08	Sobrante 115 kV CB 112 overstress Stanislaus Melonos Sw Sta Mantera #1 115 kV Line Reconductor	Replace Sobrante 115 kV circuit breaker 112 Sprondurtor Straichur, Michael Sur Str. Mouters #1.115 kV lies 36.72 miles certion of unions conductor from 0.	PG&E PG&E	C14	Reliability Deliverability	SCD overstress Re-conductor	Not Triggered In-Flight	2021	3/17/2027	12/24/2025	N/A Sep-28	TBD May-29	TBD Jun-29	0	Q1-2025 - Not triggered by Generation Agreements.
C12P2-LDNU4 C14P1-GGR09	Stanislaus-Melones SW STA-Riverbank kt Sw Sta 115 kV Line Reconductor Tosla 230 kV Bus Overstress (2 CB with Line relocations)	Reconductor Sinstitus-Mellones See ST-Reverbank in See St-11 IV line 3.75 miles section of various conductors Relocate 3 rests. Tracy VE 2390V line to Bus Sect. C. Into BAAH buy position where Newark VE line resides today. Replace Tests Substantion 500 VC SEE and associated whereful reliable section of the Section of the Section S	PG&E PG&E	C12 C14	Deliverability Reliability	Re-conductor SCD overstress	In-Flight Initiating In-Flight	2021	10/27/2028		Jan-29 N/A Mar-26	Jul-28 TBD Oct-25	Jan-29 TBD Jun-26	99 200	01-2025 - Schedule/construction sequencing date adjustments. 01-2025 - Schedule/construction sequencing date adjustments. 01-2025 - Sectedle/construction sequencing date adjustments. 01-2025 - Recently triggered by Generation Agreement.
20rsmt-7b POS-01922-NIII	Tesla 500 kV circuit breaker 612 overstress Tesla 500 kV circuit breakers 542 and 642 overstress Tesla MDGC	Inspiracy reas a sustation SULKY CB SLZ and associated switches/relays Replace Tests 500 kV circuit breakers 542 and 642 with 63 k4 interrupting capability New 230W MPAC hiddren relevance 230W environment from switcher Control Building	PG&E PG&E	C14 RA-20 RA-20	Reliability	SCD overstress SCD overstress MPAC	In-Flight In-Flight Not Triggered	2020 2020 2010	10/1/2025 9/16/2024 12/3/2025		Mar-26 Jun-25 Mar-26	Oct-25 Aug-25 Jun-26	Jun-26 May-25 Jan-28	2,148	Q1-2025 - Schedule/construction sequencing date adjustments. Q1-2025 - Schedule/construction sequencing date adjustments.
PUS-Q1922-NU1 C14P2-FGR05 C14P2-FGR06	Tessa MVAL Transient stability mitigation: Panoche-Mendota 115 kV lines RAS Transient Stability: Updated dynamic models required	New 2.50kV MINAL building resocates 2.50kV equipment from existing Control Building. AMS should trip the output of Q1940 for the loss of Panoche-Mendota 115 kV line to mitigate the oscillations and v Updated dynamic models required that exhibits acceptable performance.	PG&E	C14	Reliability	RAS (Reliability) Transient Stability	Initiating	2010	**!*!*!*		N/A N/A	TBD TBD	TBD TBD	150	01-2025 - Not triggered by Generation Agreements. Q1-2025 - Recently triggered by Generation Agreements. Q1-2025 - Not triggered by Generation Agreements.
C14P1-NLD04 C14P1-NLD06	Ukiah-Hopland-Cloverdale 115 kV Line (Cloverdale-Hopland I) and Geysers #3-Eagle Rock 115 kV Li Ukiah-Hopland-Cloverdale 115 kV Line (Cloverdale-Hopland I) and Geysers #3-Eagle Rock 115 kV Li	Reconductor 14.79 miles of Ukiah-Hopland-Cloverdale 115 kV (Cloverdale-Hopland It) to 477 ACSS and upgrade an Reconductor entire Geysers #3-Eagle Rock 115 kV (1.77 miles) to 1113 AAC and upgrade any limiting equipment	PG&E	C14	Deliverability	Re-conductor Re-conductor SCD overstress	Not Triggered				N/A N/A	TBD TBD	TBD TBD	0	Q1-2025 - Not triggered by Generation Agreements. Q1-2025 - Not triggered by Generation Agreements.
C12P1-NPT04 C14P2-GPT03	Vaca Dixon Substation 230 kV circuit breakers 442, 452 and 462 overstress Vasona-Metcalf 230 kV Line Limiting Elements Removal Project	Replace Vaca Dixon Substation 230 kV circuit breakers 442, 452 and 462 and associated switches/relays The scope of this project is to remove the limiting elements for Vasona-Metcalf 230 kV line at Vasona and Metcalf				SCD overstress Line Upgrade		2021 2022	3/1/2027 4/27/2026	TBD	Jun-27 Jun-25	Nov-26 Jun-25	May-27 Jul-26	1,550	Q1-2025 - Schodule/construction sequencing date adjustments pending Q1-2025 - Not triggered by Generation Agreements.

C14P2-NPT04	Vierra 115 KV Looping Project	Loop the Tesla-Stockton Co-Gen Junction 115kV Line into Vierra Substation, convert the Vierra 115kV bus into a 4 PG&I	E C14	Capacity	New Station	In-Flight	2011	5/21/2024	PTC: A.18-06-004	May-27	May-27	May-27	550	Q1-2025 - no changes
C11P2-KT01	Wheeler Ridge Junction Substation	Construct and own the new Wheeler Ridge Junction project substation (to be named Casa Loma) including two ne	E C1:	Capacity	New Station	Not Triggered	2014	12/31/2027	N - TBD on Filing I	Dec-33	Dec-33	Jul-33	0	Q1-2025 - Not triggered by Generation Agreements. Project ISD delayed due to project schedule date adjustments. In addition, working with key stakeholders in project scope confirmation.
C14P2-NFT03	Wilson 115 kV Area Reinforcement	Install new 115 kV and 230 kV Breaker-and-a-half (BAAH) Bus Arrangements, two Modular Protection and Automa PG&I	E C14	Deliverability	Re-conductor	In-Flight	2023	10/12/2026	N/A	Jan-28	Jan-28	Aug-29	0	Q1-2025 - Project recently triggered by Generation Contracts. Project rekicked off. Long lead material orders in Q3 2025.