

Generation Interconnection PG&E Update

August 31, 2021



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Reconductoring Projects Status Update

Projects Supporting FCDS



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PG&E Projects Status Summary

Project No.	T-Line Scope	Status	Sequence	Planned Const. Start	Planned In-Service	Significant Findings
Cluster 8 - Project 1	Reconductor Quinto SS – Los Banos 230kV Line	Now: Procurements Next Step: Construction	First on Deck	Q1-2022*	Q2-2022	
Cluster 8 - Project 2	Reconductor Los Banos – Padre Flat SS 230kV Line	Now: Engineering Next Step: Procurements / Permit Process	After Project 1	Q4-2022*	Q1-2023**	Expecting to Interset one or more new structures to avoid blow-out and maintain alignment.
Cluster 8 - Project 3	Reconductor Padre Flat SS – Panoche #1 230 kV Line	Now: Engineering Next Step: Procurements / Permits	After Project 2	Q1-2023*	Q2-2024**	Expecting to Interset one or more new structures to avoid blow-out and maintain alignment.
Cluster 8 - Project 4	Reconductor Dos Amigos PP – Panoche 230kV Line	Now: Engineering on hold Next Step: Procurements / Permits	After Project 3	Q3-2024*	Q2-2025**	Expecting to Interset one or more new structures to avoid blow-out and maintain alignment.
BW	Reconductor Bellota-Warnerville 230kV Line Bellota-Cottle 230kV Line	NOC Received: 3/9/21 Now: Procurements Next Step: Construction	IFC in Oct 2021 Materials expected Dec 2021	Summer 2022*	BW Line: April 2023** BC Line: April 2024**	
Cluster 8 - Project 5	Replace Structures & Reconductor Borden-Gregg 230kV Line # 1 Borden-Gregg 230kV Line # 2	Hold Pending SF Option Now: Engineering Next steps: Procurements / Permits / Easements	After BW or construct in the off-season using alternative design	With Shoofly Q3 2022 Without Shoofly Q4 2024	Shoofly May 2023 Line #1: Q1 2026 Line #2: Q4 2025	Shoofly alternative in review by impacted ICs. Decision forthcoming September 2021

* Construction start is dependent on design strategy, CPUC permitting strategy, obtaining necessary land / aerial rights, clearance sequence, obtaining necessary construction easements, and access to structures

** In-Service Date is subject to change through the design process as more information becomes available.

Update on 500 kV Overstressed Circuit Breaker Mitigation

Tesla and Midway 500 kV Circuit Breakers



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500 kV SCD Mitigation – Summary of Current Status

Substation	CB #	Nominal Voltage (kV)	Inspection status	Qualifies for 50 kA?
Midway	712	500 kV	2021-2022?	Pending Inspection
Midway	722	500 kV	2021-2022?	Pending Inspection
Midway	732	500 kV	2021-2022?	Pending Inspection
Midway	802	500 kV	2021-2022?	Pending Inspection
Midway	832	500 kV	2021-2022?	Pending Inspection
Midway	842	500 kV	2021-2022?	Pending Inspection
Midway	932	500 kV	2021-2022?	Pending Inspection
Midway	812	500 kV	Complete	Yes
Midway	822	500 kV	Complete	Yes
Midway	752	500 kV	Complete	Yes
Midway	852	500 kV	Complete	Yes
Midway	5212	500 kV	Complete	Yes
Midway	742	500 kV	Complete	Yes
Midway	902	500 kV	Complete	Yes
Midway	912	500 kV	Complete	Yes
Tesla	542	500 kV		No. CB replacement Needed
Tesla	612	500 kV		No. CB replacement Needed
Tesla	622	500 kV	Complete	Yes
Tesla	632	500 kV	2021	Pending Inspection
Tesla	642	500 kV	TBD	Pending Manufacturer's Confirmation and Inspection

- 17 CBs that qualify for rating change:
 - 9 CBs (8 at Midway, 1 at Tesla) can already become 50 kA, pending few activities to change ratings (such as nameplate, records, rating register, etc.)
 - 8 CBs (7 at Midway, 1 at Tesla) qualify to become 50 kA, pending detailed inspections to confirm condition
 - Tesla CB 632 – Oct. 18 to Nov. 7, 2021
 - Midway CBs – complete inspection and uprate of the 7 by end of 2022 (else would be replaced by 2025)
 - 5 CBs additional at Midway are also being evaluated to increase rating to 63 kA
 - Midway CB 722 also being evaluated to increase its continuous current to 4000 Amps
- 1 CB (at Tesla) – PG&E expects manufacturer’s determination soon (inspection also expected to be needed) – Complete, not feasible
- 3 ~~2~~ CBs (at Tesla) need replacement – PG&E is currently working on developing the coordinated schedule for all work at Tesla