

Project	PTO	Transmission Plan Approved	In-service Date at Approval in Transmission Plan	Expected In-Service Previous TDF	Current Expected In-Service	Project Status	Expected CPUC Permit Application Filing	Expected Construction Start	Notes
Midway-Kern PP Nos. 1,3 and 4 230 kV Lines Capacity Increase (Kern PP 230 kV Area Reinforcement Project)	PG&E	2010-2011	2013	Mar-21	Mar-21	In-Service	N/A	Q4-2018	(blank)
Palermo – Wyandotte 115 kV Line Section Reconductoring Project	PG&E	2020-2021	2023	Sep-21	Sep-21	In-Service	N/A	Q3-2021	(blank)
Oakland Clean Energy Initiative (Oakland X 115kV Bus Upgrade)	PG&E	2017-2018		Jun-22	Jun-22	In-Service	N/A	Q3-2021	(blank)
Vaca Dixon Area Reinforcement (Replace Bank 5)	PG&E	2017-2018	2023	Sep-22	Sep-22	In-Service	N/A	Q3-2021	(blank)
Cooley Landing-Palo Alto and Ravenswood-Cooley Landing 115 kV Lines Rerate	PG&E	2008	2015	Dec-22	Dec-22	In-Flight	PTC: A.17-12-010	Q3-2022	(blank)
Panoche – Ora Loma 115 kV Line Reconductoring	PG&E	2015-2016	2021	Mar-23	Dec-22	In-Flight	NOC: AL 5390-E	Q1-2022	Q4 Notes: Reconductoring from Oro loma to Defrancesco Tap is complete. Remaining scope Expected complete Q4-2022
Ravenswood – Cooley Landing 115 kV Line Reductor	PG&E	2017-2018	2019	Dec-22	Dec-22	In-Flight	PTC: A.17-12-010	Q3-2022	(blank)
East Shore-Oakland J 115 kV Reconductoring Project (name changed from East Shore-Oakland J 115 kV Reconductoring Project & Pittsburg-San Mateo 230 kV Looping Project since only the 115 kV part was approved)	PG&E	2011-2012	2015	Jun-23	Jun-23	In-Flight	NOC: AL 5872E	Q2-2021	(blank)
Oakland Clean Energy Initiative (MORAGA 115KV BUS UPGRADE & BK 3 SW)	PG&E	2017-2018		Sep-23	Dec-23	In-Flight	N/A	Q4-2021	Q4 Notes: Material delays by vendor pushed FISD to Nov 2023.
Tesla Substation 230 kV bus section D and circuit breakers 372, 382 and 842 overstress (reactors) TESLA_230KV BUS REACTORS C – D	PG&E	2018-2019		Sep-23	Dec-23	In-Flight	N/A	Q2-2023	Q4 Notes: Construction Sequencing; Fault duty comes into target level after all reactors are replaced
Glenn 230/60 kV Transformer No. 1 Replacement	PG&E	2013-2014	2018	Dec-22	Dec-23	In Flight	N/A	Q2-2020	Q4 Notes: Work reprioritization.
Giffen Line Reconductoring Project	PG&E	2018-2019	0	Mar-23	Mar-24	In-Flight	NOC: AL 6600-E	Q4-2023	Q4 Notes: Work reprioritization.
Moraga-Castro Valley 230 kV Line Capacity Increase Project	PG&E	2010-2011	2013	Mar-24	Mar-24	In-Flight	TBD	Q1-2024	(blank)
Gates 500 kV Dynamic Voltage Support	PG&E	2018-2019	2025	Jun-24	Jun-24	In-Flight	N/A	Q1-2023	Q4 Notes: Sensitive to supply chain risks and 3rd Party CEQA dependencies
Round Mountain 500 kV Dynamic Voltage Support	PG&E	2018-2019	2024	Sep-24	Jun-24	In-Flight	TBD	Q4-2022	Q4 Notes: The August 2024 date was a scheduling tool error and has been corrected to bring date back to Spring 2024.
Warnerville-Bellota 230 kV line reconductoring	PG&E	2012-2013	2017	Jun-24	Jun-24	In-Flight	NOC: AL 6047-E	Q2-2022	Q4 Notes: BW Line: Q2-2023; BC Line: Q2-2024
Newark-Milpitas #1 115 kV Line Limiting Facility Upgrade	PG&E	2017-2018	2019	Dec-24	Dec-24	Initiating	TBD	Q1-2024	Q4 Notes: Project has not been initiated yet
Series Compensation on Los Esteros-Nortech 115 kV Line	PG&E	2021-2022	2023	Dec-24	Dec-24	Initiating	TBD	Q4-2023	(blank)
Cascade 115/60 kV No.2 Transformer Project	PG&E	2010-2011	2014	Dec-24	Dec-24	In-Flight	N/A	Q3-2019	(blank)
Rio Oso Area 230 kV Voltage Support	PG&E	2011-2012	2016	Sep-24	Dec-24	In-Flight	N/A	Q1-2024	Q4 Notes: Work reprioritization.
Contra Costa PP 230 kV Line Terminals Reconfiguration Project	PG&E	2021-2022	2025	Sep-25	Mar-25	In-Flight	TBD	Q4-2023	Q4 Notes: Schedule Improvement. Further refinement to scope & schedule subject to change through the design process.
Pittsburg 230/115 kV Transformer Capacity Increase	PG&E	2007	2011	Mar-25	Mar-25	In-Flight	N/A	Q2-2024	(blank)
Vasona-Metcalf 230 kV Line Limiting Elements Removal Project	PG&E	2021-2022	2025	Jun-25	Jun-25	Initiating	TBD	Q4-2024	(blank)
Cottonwood 230/115 kV Transformers 1 and 4 Replacement Project	PG&E	2017-2018	2019	Mar-25	Jun-25	In-Flight	N/A	Q4-2024	Q4 Notes: Construction Sequencing starting with 115kV side followed by 230kV side.

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Midway-Kern PP Nos. 1,3 and 4 230 kV Lines Capacity Increase (Midway 230kV Bus Section D Upgrade Project)	PG&E	2010-2011	2013	Jun-25	Jun-25	In-Flight	N/A	Q2-2021	(blank)
Rio Oso 230/115 kV Transformer Upgrades	PG&E	2007	2009	Jun-24	Jun-25	In-Flight	N/A	Q3-2022	Q4 Notes: Work reprioritization.
Monta Vista 230 kV Bus Upgrade	PG&E	2012-2013	2016	Jun-24	Sep-25	In-Flight	N/A	Q2-2018	Q4 Notes: Work reprioritization.
Vierra 115 kV Looping Project	PG&E	2010-2011	2014	Sep-25	Sep-25	In-Flight	PTC: A.18-06-004	Q2-2024	Q4 Notes: Work reprioritization.
East Shore 230 kV Bus Terminals Reconfiguration	PG&E	2019-2020	2024	Dec-25	Dec-25	Initiating	TBD	Q4-2024	(blank)
Ravenswood 230/115 kV transformer #1 Limiting Facility Upgrade	PG&E	2018-2019	2019	Dec-25	Dec-25	Initiating	TBD	Q4-2025	Q4 Notes: Project has not been initiated yet
Tulucay-Napa #2 60 kV Line Capacity Increase	PG&E	2019-2020	2023	Dec-25	Dec-25	Initiating	TBD	Q4-2024	(blank)
Martin 230 kV Bus Extension	PG&E	2014-2015	2021	Jun-24	Dec-25	In-Flight	CPCN: A.17-12-02	Q1-2024	Q4 Notes: Work reprioritization.
Vaca Dixon Area Reinforcement (INSTALL (2) CAPACITOR BANKS)	PG&E	2017-2018	2023	Sep-25	Dec-25	In-Flight	TBD	Q3-2025	Q4 Notes: PEA/permit to purchase the land is in progress (project cannot proceed without purchasing the land); PTC permit will take up to 2 years
Reedley 70 kV Reinforcement (Renamed to Reedley 70 kV Area Reinforcement Projects)	PG&E	2017-2018	2017	Dec-25	Dec-25	In Flight	N/A	Q1-2024	(blank)
Vaca Dixon-Lakeville 230 kV Corridor Series Compensation	PG&E	2017-2018	2019	Dec-25	Dec-25	In Flight	N/A	Q1-2025	(blank)
Cottonwood 115 kV Bus Sectionalizing Breaker	PG&E	2018-2019	2022	Dec-24	Mar-26	In-Flight	N/A	Q4-2025	Q4 Notes: Work reprioritization
Atlantic 230/60 kV transformer voltage regulator	PG&E	2021-2022	2026	Jun-26	Jun-26	Initiating	TBD	Q1-2025	Q4 Notes: Project has not been initiated yet
Manteca-Ripon-Riverbank-Melones Area 115 kV Line Reconductoring Project	PG&E	2021-2022	2028	Jun-26	Jun-26	Initiating	TBD	Q2-2025	(blank)
Tyler 60 kV Shunt Capacitor	PG&E	2018-2019	2022	Jun-26	Jun-26	Initiating	TBD	Q4-2025	(blank)
Weber-Mormon Jct 60 kV Line Section Reconductoring Project	PG&E	2021-2022	2027	Jun-26	Jun-26	Initiating	TBD	Q2-2025	(blank)
Morgan Hill Area Reinforcement (formerly Spring 230/115 kV substation)	PG&E	2013-2014	2021	Jun-26	Jun-26	In-Flight	NOC: AL 5200-E	Q1-2025	(blank)
Midway – Kern PP #2 230 kV Line	PG&E	2013-2014	2019	Jun-26	Jun-26	In Flight	NOC: AL 5026-E	Q4-2018	Q4 Notes: The Midway-Kern #2 230kV depends on the Midway Section D Bus Upgrade project to provide a new open terminal position for the new 230kV line.
Kasson – Kasson Junction 1 115 kV Line Section Reconductoring Project	PG&E	2020-2021	2023	Jun-26	Sep-26	In-Flight	TBD	Q3-2026	Q4 Notes: Awaiting PM Assignment
Cooley Landing 60 kV Substation Circuit Breaker No #62 Upgrade	PG&E	2021-2022	2026	Dec-26	Dec-26	Initiating	TBD	Q2-2026	Q4 Notes: Project has not been initiated yet
Jefferson 230 kV Bus Upgrade	PG&E	2018-2019	2022	Dec-26	Dec-26	Initiating	TBD	Q4-2024	Q4 Notes: Project has not been initiated yet
Moss Landing – Las Aguilas 230 kV Series Reactor Project	PG&E	2021-2022	2026	Dec-26	Dec-26	Initiating	TBD	Q2-2025	Q4 Notes: Project has not been initiated yet
Newark 230/115 kV Transformer Bank #7 Circuit Breaker Addition	PG&E	2019-2020	2024	Dec-26	Dec-26	Initiating	TBD	Q4-2025	(blank)
Salinas-Firestone #1 and #2 60 kV Lines	PG&E	2019-2020	2024	Dec-26	Dec-26	Initiating	TBD	Q4-2025	Q4 Notes: Project has not been initiated yet
Tie line Phasor Measurement Units	PG&E	2017-2018	2020	Dec-26	Dec-26	Initiating	N/A	Q1-2023	(blank)

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Herndon-Bullard 115 kV Reconductoring Project	PG&E	2017-2018	2021	Dec-26	Dec-26	In-Flight	NOC - TBD on Filing Date	Q3-2025	(blank)
Manteca #1 60 kV Line Section Reconductoring Project	PG&E	2020-2021	2024	Jun-26	Dec-26	In-Flight	TBD	Q3-2026	Q4 Notes: Awaiting PM Assignment
Oro Loma 70 kV Area Reinforcement	PG&E	2010-2011	2015	Dec-26	Dec-26	In Flight	NOC - May 2024	Q1-2026	(blank)
Estrella Substation Project	PG&E	2013-2014	2019	Sep-26	Mar-27	In-Flight	PTC: A.17-01-023	Q4-2023	Q4 Notes: Permitting delays and unknown project scope until after PTC issuance is driving the project's in-service delays.
Cortina 230/115/60 kV Transformer Bank No. 1 Replacement Project	PG&E	2021-2022	2027	Jun-27	Jun-27	Initiating	TBD	Q4-2025	(blank)
South of San Mateo Capacity Increase	PG&E	2007	2009	Jun-27	Jun-27	Initiating	TBD	Q1-2026	Q4 Notes: Project has not been initiated yet
South of Mesa Upgrade	PG&E	2018-2019	2023	Jun-26	Jun-27	In Flight	NOC - Feb 2024	Q4-2025	Q4 Notes: Work reprioritization.
Kern PP 115 kV Area Reinforcement	PG&E	2011-2012	2016	Sep-27	Sep-27	In Flight	NOC - TBD on Filing Date	Q1-2025	(blank)
Borden 230/70 kV Transformer Bank #1 Capacity Increase	PG&E	2019-2020	2025	Dec-27	Dec-27	Initiating	TBD	Q4-2026	(blank)
Coppermine 70 kV Reinforcement Project	PG&E	2021-2022	2027	Dec-27	Dec-27	Initiating	TBD	Q4-2026	Q4 Notes: Project has not been initiated yet
Maple Creek Reactive Support	PG&E	2009	2011	Dec-27	Dec-27	Initiating	TBD	Q4-2026	Q4 Notes: Project has not been initiated yet
Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	PG&E	2003	2008	Dec-27	Dec-27	Initiating	N/A	Q4-2026	(blank)
Table Mountain Second 500/230 kV Transformer	PG&E	2021-2022	2027	Dec-27	Dec-27	Initiating	N/A	Q4-2025	Q4 Notes: Project has not been initiated yet
Mosher Transmission Project	PG&E	2013-2014	2017	Dec-27	Dec-27	In Flight	NOC - April 2026	Q1-2027	(blank)
East Marysville 115/60 kV Project	PG&E	2018-2019	2022	Mar-28	Mar-28	In-Flight	N/A	Q2-2026	(blank)
Wilson 115 kV Area Reinforcement	PG&E	2010-2011	2015	Sep-27	Mar-28	In Flight	N/A	Q2-2025	Q4 Notes: Work reprioritization.
Christie-Sobrante 115 kV Line Reconductor	PG&E	2018-2019	2022	Jun-28	Jun-28	Initiating	TBD	Q1-2025	(blank)
Gold Hill 230/115 kV Transformer Addition Project	PG&E	2018-2019	2022	Jun-28	Jun-28	In-Flight	TBD	Q1-2027	(blank)
Midway-Temblor 115 kV Line Reconductor and Voltage Support	PG&E	2012-2013	2018	Jun-28	Sep-28	In Flight	NOC - April 2026	Q3-2026	(blank)
Clear Lake 60 kV System Reinforcement	PG&E	2009	2012	Dec-28	Dec-28	Initiating	TBD	Q4-2027	Q4 Notes: Project has not been initiated yet
Ignacio Area Upgrade	PG&E	2017-2018	2023	Dec-27	Dec-28	Initiating	TBD	Q4-2026	Q4 Notes: Work reprioritization.
Lakeville 60 kV Area Reinforcement	PG&E	2017-2018	2021	Dec-28	Dec-28	Initiating	TBD	Q4-2027	Q4 Notes: Project has not been initiated yet
Moraga 230 kV Bus Upgrade	PG&E	2019-2020	2024	Dec-28	Dec-28	Initiating	TBD	Q4-2027	Q4 Notes: Project has not been initiated yet
New Collinsville 500 kV substation	PG&E	2021-2022	2028	Dec-28	Dec-28	Initiating	TBD	Q2-2026	Q4 Notes: Project has not been initiated yet

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New Manning 500 kV substation	PG&E	2021-2022	2028	Dec-28	Dec-28	Initiating	TBD	Q1-2027	Q4 Notes: Project has not been initiated yet
Reconductor Delevan-Cortina 230kV line	PG&E	2021-2022	2028	Dec-28	Dec-28	Initiating	TBD	Q4-2027	Q4 Notes: Project has not been initiated yet
San Jose Area HVDC 230 kV Line (Newark - NRS)	PG&E	2021-2022	2028	Dec-28	Dec-28	Initiating	TBD	Q4-2027	Q4 Notes: Project has not been initiated yet
San Jose Area HVDC 500 kV Line (Metcalf – San Jose)	PG&E	2021-2022	2028	Dec-28	Dec-28	Initiating	TBD	Q1-2026	Q4 Notes: Project has not been initiated yet
Lockeford-Lodi Area 230 kV Development	PG&E	2012-2013	2017	Mar-29	Mar-29	In-Flight	CPCN Expected Q4 2022	Q4-2026	Q4 Notes: CEQA process presently under way (blank)
Coburn-Oil Fields 60 kV system project	PG&E	2017-2018	2022	Jun-29	Jun-29	In Flight	TBD	Q3-2027	
Reconductor Rio Oso–SPI Jct–Lincoln 115kV line	PG&E	2021-2022	2028	Dec-29	Dec-29	Initiating	TBD	Q4-2028	Q4 Notes: Project has not been initiated yet
North Tower 115 kV Looping Project	PG&E	2011-2012	2015	Dec-30	Mar-30	Initiating	TBD	Q1-2028	Q4 Notes: Schedule Improvement. Further refinement to scope & schedule subject to change through the design process.
Red Bluff-Coleman 60 kV Reinforcement	PG&E	2017-2018	2021	Sep-26	Jun-30	In-Flight	C - TBD on Filing Date	Q1-2026	Q4 Notes: Work reprioritization.
Wheeler Ridge Junction Substation	PG&E	2013-2014	2020	Jun-29	Jun-29	On-Hold (CAISO)	CPCN - TBD on Filing Date	Q3-2025	Q4 Notes: Work reprioritization.
North of Mesa Upgrade (formerly Midway-Andrew 230 kV Project)	PG&E	2012-2013	2019	Dec-29	Dec-29	On-Hold (CAISO)	CPCN - TBD on Filing Date	Q1-2024	(blank)
Moraga-Sobrante 115 kV Line Reconductor	PG&E	2018-2019	2023			On-Hold (CAISO)	TBD		(blank)

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Laguna Bell Corridor Upgrade	SCE	2015	Dec-20	May-20	May-20	In-Service	N/A	N/A	Currently in-service; completed as a portion of Mesa 500 kV Substation Loop-In
Moorpark-Pardee No. 4 230 kV Circuit	SCE	2018	Dec-20	May-22	May-22	In-Service	N/A	N/A	In-service January 2022
Mesa 500 kV Substation Loop-In	SCE	2014	Dec-20	May-22	May-22	In-Service	N/A	N/A	In-service May 2022
Lugo-Mohave series capacitor upgrade	SCE	2013	2016	Jun-23	Dec-23	Construction	May-18	Dec-20	Most of the project expected in-service by June 2023 with full compensation by December 2023
Lugo – Eldorado series cap and terminal equipment upgrade	SCE	2013	2016	Jun-23	Dec-23	Construction	May-18	Dec-20	Most of the project expected in-service by June 2023 with full compensation by December 2023
Lugo Substation Install new 500 kV CBs for AA Banks	SCE	2008	Dec-11	Dec-24	Dec-25	Design	Exempt	Oct-24	
Lugo – Victorville 500 kV Upgrade (SCE portion)	SCE	2017	Dec-18	Jan-25	Jan-25	Construction	Exempt	Construction started	Joint SCE/LADWP project. SCE completed raising its towers and LADWP's are in progress. Substation upgrades (breakers and terminal equipment) require synchronizing outages with LADWP.
Alberhill 500 kV Method of Service	SCE	2009	2014	Apr-27	Apr-27	Permitting	Sep-09	Pending	Alberhill dates contingent on licensing
Method of Service for Wildlife 230/66 kV Substation	SCE	2007	2009	Jul-27	Jul-27	Design	Apr-15	May-23	
Pardee-Sylmar 230 kV Line Rating Increase Project	SCE	2020	Jun-23	Jun-24	Jun-25	Design	Exempt	Oct-22	Joint SCE/LADWP project. ISD for SCE's portion of the project remains June 2024 (as reported in July 2022 TDF). Expected ISD of June 2025 includes LADWP's portion of the project.
Tie line Phasor Measurement Units	SCE	2017-2018	Dec-20	Dec-25	Dec-25	Construction	N/A	Construction started	The in-service dates range from September 2022 to December 2025
Laguna Bell - Mesa No. 1 230 kV Line Rating Increase Project	SCE	2021-2022	2023	Dec-23	Dec-23	Design	Pending	Dec-23	
Antelope 66 kV Circuit Breaker Duty Mitigation Project	SCE	2021-2022	2026	Dec-25	Dec-25	Planning	N/A	Pending	
Devers 230 kV Reconfiguration Project	SCE	2021-2022	2023	Pending	Jun-25	Design	N/A	Pending	
Victor 230 kV Switchrack Reconfiguration	SCE	2021-2022	2023	Pending	Pending	Initiation	N/A	Pending	

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Reconductor TL692: Japanese Mesa - Las Pulgas	SDG&E	2013-2014	Jun-21	Oct-21	Nov-21	Close-out	Exempt	May-21	
TL644, South Bay-Sweetwater: Reconductor	SDG&E	2010-2011	Jun-13	May-22	May-22	Construction	Exempt	Feb-22	
TL674A Loop-in (Del Mar-North City West) & Removal of TL666D (Del Mar-Del Mar Tap)	SDG&E	2012-2013	Jun-21	Dec-22	Oct-22	Construction	Jun-17	Jan-21	
2nd Escondido-San Marcos 69 kV T/L	SDG&E	2013-2014	Jun-15	Dec-22	Nov-22	Construction	Nov-17	Jan-22	
Artesian 230 kV Sub & loop-in TL23051	SDG&E	2013-2014	Jun-16	Dec-22	Dec-22	Construction	Aug-16	Jun-20	
Rose Canyon-La Jolla 69 kV T/L	SDG&E	2013-2014	Jun-18	Oct-23	Oct-23	Construction	Exempt	Jul-21	
Southern Orange County Reliability Upgrade Project – Alternative 3 (Rebuild Capistrano Substation, construct a new SONGS-Capistrano 230 kV line and a new 230 kV tap line to Capistrano)	SDG&E	2010-2011	Jun-15	May-24	May-24	Construction	May-12	Jun-18	
Reconductor TL 605 Silvergate – Urban	SDG&E	2015-2016	Jun-18	Dec-24	Oct-24	Design	Aug-23	Aug-24	
TL649D Reconductor (San Ysidro - Otay Lake Tap)	SDG&E	2017-2018	Jun-22	Aug-22	Oct-24	Planning	TBD	TBD	
TL695B Japanese Mesa-Talega Tap Reconductor	SDG&E	2011-2012	Jul-05	Oct-25	Aug-25	Design	Apr-16	Aug-24	
TL632 Granite Loop-In and TL6914 Reconfiguration	SDG&E	2013-2014	Jun-21	May-26	Apr-26	Design	Sep-23	Mar-24	
TL690E, Stuart Tap-Las Pulgas 69 kV Reconductor	SDG&E	2013-2014	Jun-15	Nov-26	Mar-27	Design	Exempt	Mar-25	
Sweetwater Reliability Enhancement	SDG&E	2012-2013	Jun-21	Dec-27	Oct-27	Design	Jul-26	Apr-27	
TL623C Reconductor (San Ysidro - Otay Tap)	SDG&E	2017-2018	Jun-22	Aug-24	Jun-29	Planning	TBD	Jul-24	

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Gamebird 230/138 kV Transformer Upgrade	VEA/GLW	2019-2020	2021	VEA portion: Dec-21 GLW portion: Nov-21 Transformer: Q2 22	In service	In service	N/A	2021	The GridLiance 230kV Ring Bus and associated 230kV Transmission Line loop-in were placed in service Nov-2021. The VEA 138kV Station upgrades were placed in service Dec-2021. The 230/138kV Transformer was delivered to site and mounted on the foundation Oct-2021. The Transformer failed testing at-site and was required to be shipped back to the factory for repair. Expected in-service date for the Transformer is Q2-2022.
Tie line Phasor Measurement Units	VEA	2017-2018	Dec-20	Dec-22	Dec-22	In Flight	N/A	Sept-21	
GLW/VEA area upgrades	VEA/GLW	2021-2022	TBD			Permitting, engineering and design	N/A	TBD	

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Delaney-Colorado River 500 kV line	DCR Transmission	2013-2014	2020	Apr-24	Apr-24	Inflight	Approved	Oct-22	

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Gates 500 kV Dynamic Voltage Support	LS Power	2018-2019	2024	Jun-24	Jun-24	In-Flight	Q4-2020	Oct-22	
Round Mountain 500 kV Dynamic Voltage Support	LS Power	2018-2019	2024	Dec-24	Dec-24	In-Flight	Apr-22	Apr-23	

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IID S-Line Upgrade	Citizens Energy	2017-2018	Dec-21	2023	2023	In-Flight		Jul-21	