

January 2024 Transmission Development Forum (TDF)

Approved Transmission Planning Projects and Queue Network Upgrades

Changes in In-Service Dates (ISD) from the October 2023 TDF

January 31st, 2024

Summary of Approved Transmission Planning Projects (1/3)

No.	Project	Transmission Plan Approved	ISD at Approval in Transmission Plan	Expected ISD Oct 2023 TDF	Current Expected ISD	Project Status	Expected CPUC Permit Filing	Expected Construction Start
1	Colorado River-Red Bluff 500 kV 1 Line Upgrade	2022-2023	2028	Pending	December 2028	Initiation	Pending	Pending
2	Devers-Red Bluff 500 kV 1 and 2 Line Upgrade	2022-2023	2028	Pending	December 2028	Initiation	Pending	Pending
3	Devers-Valley 500 kV 1 Line Upgrade	2022-2023	2028	Pending	December 2028	Initiation	Pending	Pending
4	Lugo Substation Install new 500 kV CBs for AA Banks	2008	2011	December 2025	December 2026	Design	Exempt	January 2026
5	Lugo-Victor-Kramer Upgrade	2022-2023	2033	Pending	June 2033	Preliminary Engineering	Pending	Pending
5.1	Add 3rd Lugo 500/230 kV Transformer	2022-2023	2028	Pending	December 2028	Preliminary Engineering	Pending	Pending
5.2	Reconductor Lugo-Victor 230 kV No. 1, 2, 3 & 4 lines using HTLS	2022-2023	2028	Pending	December 2028	Preliminary Engineering	Pending	Pending
5.3	Rebuild/build Kramer-Victor 115 kV lines to 230 kV and Loop the old segment of Kramer-Victor 115 kV into Roadway	2022-2023	2033	Pending	June 2033	Preliminary Engineering	Pending	Pending

Summary of Approved Transmission Planning Projects (2/3)

No.	Project	Transmission Plan Approved	ISD at Approval in Transmission Plan	Expected ISD Oct 2023 TDF	Current Expected ISD	Project Status	Expected CPUC Permit Filing	Expected Construction Start
6	Lugo – Eldorado series cap and terminal equipment upgrade	2012-2013	2016	June 2024	December 2024	Construction	Filed in May 2018	Construction started in Dec 2020
7	Lugo – Victorville 500 kV Upgrade (SCE portion)	2016-2017	2018	January 2026	January 2027	Construction	Exempt	Construction started
8	Lugo-Mohave series capacitor upgrade	2013-2014	2016	June 2024	December 2024	Construction	Filed in May 2018	Construction started in Dec 2020
9	Method of Service for Wildlife 230/66 kV Substation	2007	2009	December 2028	TBD	On Hold	Filed in April 2015	TBD
10	San Bernardino-Etiwanda 230 kV 1 Line Upgrade	2022-2023	2031	Pending	December 2031	Initiation	Pending	Pending
11	San Bernardino-Vista 230 kV 1 Line Upgrade	2022-2023	2026	Pending	December 2028	Initiation	Pending	Pending
12	Vista-Etiwanda 230 kV 1 Line Upgrade	2022-2023	2031	Pending	December 2031	Initiation	Pending	Pending

Summary of Approved Transmission Planning Projects (3/3)

No.	Project	Transmission Plan Approved	ISD at Approval in Transmission Plan	Expected ISD Oct 2023 TDF	Current Expected ISD	Project Status	Expected CPUC Permit Filing	Expected Construction Start
13	Antelope-Whirlwind Line Upgrade	2022-2023	2025	Pending	December 2025	Preliminary Engineering	Pending	Pending
14	Laguna Bell - Mesa No. 1 230 kV Line Rating Increase Project	2021-2022	2023	June 2024	June 2024¹	Design	Pending	Pending
15	Mira Loma-Mesa Upgrade	2022-2023	2026	Pending	December 2026	Preliminary Engineering	Pending	Pending
16	Mira Loma 500 kV CB Upgrade Project	2022-2023	2026	December 2028	August 2028	Design	Exempt	May 2028
17	New Serrano 4AA Bank & 230kV GIS Rebuild	2022-2023	2027	Pending	December 2027	Preliminary Engineering	Exempt	June 2026
18	Serrano-Alberhill-Valley 500 kV 1 Line Upgrade	2022-2023	2028	Pending	December 2028	Initiation	Pending	Pending
19	Sylmar Transformer Replacement	2022-2023	2026	Pending	December 2026	Initiation	Pending	Pending

1: SCE has informed the CAISO that the ISD will likely extend past June 2024. SCE expects to have a revised ISD by the July 2024 TDF.

Summary of Queue Network Upgrades²

No.	ID	Network Upgrades	Status	Current Expected Construction Start	Expected CPUC Application	Original Estimated ISD	Expected ISD Oct 2023 TDF	Current Estimated ISD	Aggregate MW in Queue with Executed LGIA
1	SCE-C9P2-N-R1	Whirlwind AA Bank CRAS Monitoring Infrastructure	Execution	August 2023	Exempt	November 2022	June 2024	December 2024	1,015
2	SCE-C9C10-N	Windhub AA Bank CRAS - monitoring infrastructure	Execution	January 2023	Exempt	November 2022	September 2023	December 2024	1,800
3	PIN6902	Calcite Substation	Plan/Analyze	June 2026	April 2025	2020	March 2027	December 2027	400
4	SCE-TCP2-EOP-R4	Lugo - Victorville RAS	Permitting	April 2024	Exempt	September 2011	March 2027	December 2024	530
5	SCE-C11P2-EOP-R1	Lugo - Victorville CRAS - monitoring infrastructure	Design	June 2025	Exempt	November 2019	June 2025	June 2026	950
6	SCE-C72021-EOP	Participate and modify the planned Lugo-Victorville CRAS - SCE portion	Design	June 2025	Exempt	August 2021	June 2025	June 2026	550

2: Only the projects with changed in-service date or a major change in status (e.g., New, Cancelled, or Completed) are shown. Workbooks of all the approved transmission projects are posted on the CAISO website under Transmission Development Forum.