

Summary of ISO Capital Expenditure Forecast - Incentive Projects

		(\$000)		High/ Low		Project Total (ISO & non-ISO)				ISO Portion			
PIN	Project Title	Order #	Voltage	OD		Prior	2021	2022	Total	Prior	2021	2022	Total
Incentive Transmission Projects includes only Direct Installation Expenditures													
Various	Tehachapi - Segments 1-3												
04928	TRTP 1 Environmental Restoration	903216224	High	Dec-21		-	150	-	150	-	150	-	150
04928	Total Segment 1					-	150	-	150	-	150	-	150
Various	Tehachapi - Segments 4-11												
05243	New Vincent-Duarte 500kV T/L	800217316	High	Nov-14		-	21	-	21	-	21	-	21
05243	TRTP 6 Environmental Restoration, Oak Tree Mitigation, Escrow Close-Out	903216225	High	Dec-30		1	2,442	1,751		1	2,442	1,751	4,194
05243	Total Segment 6					1	2,463	1,751	21	1	2,463	1,751	4,215
06438	TRTP 11 Environmental Restoration, Oak Tree Mitigation, Escrow Close-Out	903216563	High	Dec-30		-	1,967	1,249		-	1,967	1,249	3,216
06438	Total Segment 7					-	1,967	1,249	-	-	1,967	1,249	3,216
06439	New 33 mile Vincent-Mira Loma 500kV T/L	800218645	High	Mar-15		-	20	-	20	-	20	-	20
06439	TRTP 7 Environmental Restoration	903216565	High	Dec-24		-	635	473		-	635	473	1,108
06439	Total Segment 8					-	655	473	20	-	655	473	1,128
07553	Mira Loma-Vincent 500 kV T/L (UG): Civil & Cable Portion	900610533	High	Sep-16		-	0	-	0	-	0	-	0
07553	Acquire Easements for TRTP Segment 8A	801025887	High	Mar-16		-	7	-	7	-	7	-	7
07553	TRTP-Segment 8A CHUG: Land/ Easements Acquisition/ Condemnation	801479004	High	Jun-21		153	1	-	153	153	1	-	153
07553	TRTP CHUG Environmental Restoration, Remediation	903216567	High	Dec-27		-	301	215		-	301	215	515
07553	ACQ/CHUG TRTP 8-Remediation	801985647	High	Dec-25		-	43	-		-	43	-	43
07553	Total Segment 8A (TRTP 500 kV Underground)					153	351	215	160	153	351	215	718
06442	Mesa-Vincent #1 500kV T/L	800217339	High	Apr-15		-	3	-	3	-	3	-	3
06442	TRTP 8 Environmental Restoration	903216561	High	Dec-24		-	279	218		-	279	218	497
06442	Total Segment 11					-	282	218	3	-	282	218	500
Total Tehachapi Segments 4-11 - Incentive Qualified						154	5,718	3,905	204	154	5,718	3,905	9,777
Total Tehachapi - Segments 1-11 Incentive Qualified						154	5,868	3,905	354	154	5,868	3,905	9,927
08169	Colorado River Substation Expansion (CRSE)												
08169	Colorado River Substation: Installation of the 2nd AA 1120MVA 500/220kV transformer bank	902519003	High	Dec-21		4,914	10,000	80	14,994	4,914	10,000	80	14,994
	Total CRSE					4,914	10,000	80	14,994	4,914	10,000	80	14,994
06902	Calcite Substation (formerly Jasper; part of South of Kramer)												
06902	Calcite Substation (SCE Funded): Construct new Calcite 220kV Substation (switching station) to interconnect the Ord Mountain gen-tie and the Sorrel I Solar Farm gen-tie	900295954	High	Sep-23		4,118	400	5,500	10,018	4,118	400	5,500	10,018
06902	Total Calcite					4,118	400	5,500	10,018	4,118	400	5,500	10,018
06420	West of Devers												
06420	West of Devers Upgrade Project: Preliminary Engineering & Licensing	800062511	High	May-21		52,934	-	-	52,934	52,934	-	-	52,934
06420	Devers Sub: Install 220kV CBs & DSs	901453922	High	Jul-21		5,183	350	-	5,533	5,183	350	-	5,533
06420	El Casco Sub: Install 220kV Terminal Equipment	901453923	High	Aug-18		-	-	-	-	-	-	-	-
06420	Etiwanda Sub: Install 220kV Relay Equipment	901453924	High	Mar-20		-	22	-	22	-	22	-	22
06420	San Bernardino Sub: Install Disconnects	901453925	High	Jan-21		6,679	400	-	7,079	6,679	400	-	7,079
06420	Rebuild Devers-El Casco & El Casco-San Bernardino 220 kV lines with 2B-1590 ACSR on double circuit towers	901460764	High	May-21		525,003	40,621	11,717	577,341	525,003	40,621	11,717	577,341
06420	Vista Sub: Install Disconnects	901453926	High	Feb-20		-	79	-	79	-	79	-	79

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PIN	Project Title	Order #	High/ Low Voltage	OD	Prior	2021	2022	Total	Prior	2021	2022	Total
06420	Acquire Easements for West of Devers	801275175	High	Dec-21	7,534	2,932	-	10,466	7,534	2,932	-	10,466
06420	Total West of Devers				597,333	44,403	11,717	653,453	597,333	44,403	11,717	653,453
06092	Alberhill System											
06092	Licensing Phase - Site Selection, PEA/Application Preparation, Environmental Surveys and CPUC Licensing Review.	800063633	High	Jan-26	26,799	2,000	1,600	30,399	14,043	1,048	838	15,929
06092	Valley: Replace existing LFCB relay with SEL-311L relay on Valley 500kV position 7XS. Replace existing SEL-311C/RFL9745 relay with SEL-311L relay on Valley 115kV position 3S.	800374409	High	Nov-24	7	-	-	7	5	-	-	5
06092	Replace existing LFCB relay with SEL-311L relay on Serrano 500kV position 3E	800374410	High	Dec-24	3	-	-	3	3	-	-	3
06092	Alberhill Real Properties Acquisition	800796373	High	Dec-25	84	-	-	84	41	-	-	41
06092	Alberhill-Serrano 500kV: Form the Alberhill-Serrano 500 kV line by looping the existing Serrano-Valley 500 kV line into Alberhill Sub.	900502072	High	Jan-26	200	-	-	200	200	-	-	200
06092	Alberhill-Valley 500kV: Form the Alberhill-Valley 500 kV line by looping the existing Serrano-Valley 500 kV line into Alberhill Substation	900502073	High	Jan-26	38	-	-	38	38	-	-	38
06092	Total Alberhill System				27,131	2,000	1,600	30,731	14,330	1,048	838	16,216
07546	Eldorado-Lugo-Mohave Upgrade											
07546	ELMSC Real Properties Acquisition	801648460	High	Dec-21	804	300	1,649	2,753	804	300	1,649	2,753
07546	Eldorado Sub: Upgrade Terminal Equipment	901056467	High	May-22	19,790	3,243	3,872	26,905	19,790	3,243	3,872	26,905
07546	Lugo Sub: Upgrade Terminal Equipment and	901056468	High	Nov-21	23,449	5,219	6,426	35,094	23,449	5,219	6,426	35,094
07546	Mohave Sub:Install CBs, Disc.&series cap	901490550	High	Apr-21	20,766	6,928	4,015	31,709	20,766	6,928	4,015	31,709
07546	Mid-Line Cap:Inst cap on Eldor Lugo T/L	901624163	High	Jun-22	18,535	5,896	5,059	29,490	18,535	5,896	5,059	29,490
07546	Inst Eldo-Lug-Mhve Series Caps at Ludlow	901826564	High	Jan-22	19,190	6,030	4,836	30,056	19,190	6,030	4,836	30,056
07546	Eldorado-Mohave T/L: Instal OPGW, splice	901904770	High	Jul-22	4,370	2,127	1,189	7,686	4,370	2,127	1,189	7,686
07546	Lugo-Mohave T/L(CA): Instal OPGW, splice	901904772	High	Jul-22	11,437	4,395	3,779	19,611	11,437	4,395	3,779	19,611
07546	Lugo-Mohave T/L(NV): Instal OPGW, splice	901904773	High	Jul-22	654	392	430	1,476	654	392	430	1,476
07546	Eldorado-Lugo T/L(CA): Clear infractions	901904774	High	Jul-22	2,679	2,474	1,498	6,651	2,679	2,474	1,498	6,651
07546	Total Eldorado-Lugo-Mohave Upgrade				121,675	37,004	32,753	191,432	121,675	37,004	32,753	191,432
07555	Mesa Substation											
07555	Build new Mesa 230/66/16 kV substation. Install an L90 relay, since an L90 relay is being added at Walnut Substation.	900959223	High	Dec-19	-	211	-	211	-	107	-	107
07555	Laguna Bell: Replace (4) 230 kV CBs	901192480	High	Apr-20	-	1	-	1	-	1	-	1
07555	Lighthipe:Replace (2) 230kV CBs&disconct	901192481	High	Dec-19	-	(11)	-	(11)	-	(11)	-	(11)
07555	Rio Hondo Sub: Upgrade/Update Protection	901192483	High	May-20	-	0	-	0	-	0	-	0
07555	Relocation of the Laguna Bell-Rio Hondo, Lighthipe-Mesa, Goodrich-Laguna Bell, Eagle Rock-Mesa, Mesa-Vincent #1 and 2, Redondo-Mesa, Center-Mesa, and Mesa-Walnut 230kV lines	901197441	High	Jun-20	-	146	-	146	-	146	-	146
07555	Mesa-Redondo 220kV: Install 4 structures and 2300 ckt ft of conductor.	901560422	High	Jun-20	-	312	-	312	-	312	-	312
07555	Center Sub:Replc 3 GE relays	901564026	High	May-20	-	-	-	-	-	-	-	-
07555	Redondo Sub: Replc 1 SEL-311L relay.	901564029	High	Feb-20	-	-	-	-	-	-	-	-
07555	Eagle Rock-Mesa: Install 1 structure and 1500 ckt ft of conductor	902124236	High	Jun-20	-	217	-	217	-	217	-	217
07555	Goodrich-Mesa: Install 1000 ckt ft of conductor	902124387	High	Jan-20	-	68	-	68	-	68	-	68
07555	Laguna Bell-Mesa #1 220kV: Install 2300 ckt ft of conductor	902124388	High	Jun-20	-	84	-	84	-	84	-	84
07555	Laguna Bell-Mesa #2: Install 3 structures and 1400 ckt ft of conductor	902124389	High	Jun-20	-	32	-	32	-	32	-	32
07555	Lighthipe-Mesa: Install 3 structures, 2 shoofly Emergency Steel Poles (ESPs), 1200 ckt ft of shoofly conductor, and 1000 ckt ft of permanent conductor	902124390	High	Dec-19	-	78	-	78	-	78	-	78
07555	Mesa-Rio Hondo #1 220kV: Install 4 structures and 3000 ckt ft of conductor	902124394	High	Jan-21	1,905	(321)	-	1,584	1,905	(321)	-	1,584
07555	Mesa-Rio Hondo #2: Install 3000 ckt ft of conductor	902124395	High	Jan-21	3,087	(425)	-	2,662	3,087	(425)	-	2,662
07555	Mesa-Vincent #1: Install 2 structures, 2 shoofly ESPs, 800 ckt ft of shoofly conductor, and 1300 ckt ft of permanent conductor.	902124396	High	Dec-19	-	219	-	219	-	219	-	219
07555	Mesa-Vincent #2: Install 2 structures and 1400 ckt ft of conductor	902124398	High	Jun-20	-	416	-	416	-	416	-	416
07555	Mesa-Walnut: Install 4 structures and 2900 ckt ft of conductor	902124580	High	Dec-20	-	158	-	158	-	158	-	158
07555	Redondo-Vincent: Install 1500 ckt ft of shoofly conductor.	902124582	High	May-18	-	-	-	-	-	-	-	-

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07555	Goodrich-Laguna Bell: Install 1500ft cnd	902132965	High	May-18	-	-	-	-	-	-	-	-
07555	Laguna Bell-Rio Hondo: Install 1 shoofly ESP and 500 ckt ft of shoofly conductor.	902132967	High	Jun-20	-	30	-	30	-	30	-	30
07555	Mesa: Upgrade Mesa from a 230/66/16kV substation to a 500/230/66/16kV substation	902178838	High	Sep-21	113,726	70,586	45,562	229,874	113,726	70,586	45,562	229,874
07555	Mesa-Mira Loma: Install 2 new structures and 1600 ckt ft of conductor	902124234	High	Jul-22	1,105	2,867	623	4,596	1,105	2,867	623	4,596
07555	Mesa-Vincent: Install 1600 ckt ft of conductor	902124235	High	Jul-22	295	1,006	-	1,302	295	1,006	-	1,302
07555	Mira Loma 500kV T/L: Install (1) L90 relay. Install (2) SEL-411L relays. Install (2) RFL-9745 channels.	902472308	High	Nov-21	153	41	-	193	153	41	-	193
07555	Vincent 500 kV T/L: Install (1) L90 relay. Install (2) SEL-411L relays. Install (2) RFL-9745 channels	902472309	High	May-21	168	89	-	257	168	89	-	257
07555	Mesa: SCE 50% MWD Wa	901777019	High	Jun-18	-	840	-	840	-	605	-	605
07555	Total Mesa Substation				120,439	76,647	46,185	243,271	120,439	76,308	46,185	242,932
05450	Riverside Transmisison Riability Project (RTRP)											
05450	Mira Loma-Vista No. 1 220 kV T/L: Engineer and construct approximately 10 miles of new line	800062516	High	Jul-23	11,494	(45)	-	11,448	11,494	(45)	-	11,448
05450	WILDLIFE (FORMERLY JURUPA 5057-5001): Engineer, design, a 220kV Interconnection Facility to loop the existing Mira Loma–Vista	800062777	High	Feb-24	6,984	-	-	6,984	6,984	-	-	6,984
05450	RTRP-Real Property	801979678	High	Dec-22	-	3,286	44,536	47,822	-	3,282	44,492	47,774
05450	Vista Sub: Upgrade the line protection on the existing	901487150	High	Jan-23	1	46	200	246	1	46	200	246
05450	Mira Loma Sub: Upgrade line protection on the existing	901487151	High	Aug-26	1	30	131	162	1	30	131	162
05450	Mira Loma-Vista No. 1 220kV T/L UG: Engineer and construct approximately 2 miles of new 220kV underground double circuit line.	902220349	High	Oct-26	676	2,707	30,247	33,630	676	2,707	30,247	33,630
05450	MIRA LOMA-VISTA NO.1 Subtation	903112093	High	Oct-26	147	980	-	1,127	147	980	-	1,127
05450	WILDLIFE -Sub SCE -CAISO Controlled facilities	903112254	High	Feb-24	2	102	-	104	2	102	-	104
05450	Total Riverside Transmisison Riability Project				19,304	7,106	75,114	101,524	19,304	7,102	75,070	101,476
Total Incentive Transmission Projects					895,068	183,428	176,856	1,245,778	882,267	182,133	176,050	1,240,449
Total Incentive Transmission Projects (Closing by Dec 2022)					844,514	171,541	135,272	1,151,327	844,514	171,198	135,228	1,150,939