

California ISO
Projects Completed July 2020 through June 2021

Capital ID #	Year Approved	Project Description	Approved Project Budget	Final Cost	% Completed to Budget
Capital Projects					
12215	2015	Logging System Replacement	\$ 300,841	\$ 38,003	13%
12239	2018	ADS Replacement Project	\$ 810,624	\$ 803,842	99%
12247	2020	Excess Behind the Meter Production	\$ 151,702	\$ 112,286	74%
12248	2020	Market Settlement Timeline Transformation	\$ 183,621	\$ 142,946	78%
12250	2020	MSAA Phase 2A	\$ 238,697	\$ 238,697	100%
12416	2018	Generator Contingency & RAS Modeling	\$ 821,801	\$ 781,158	95%
12422	2018 /2019	Commitment Costs & Default Energy Bid	\$ 1,831,685	\$ 960,669	52%
12424	2018	Load Forecasting Improvements For LDF	\$ 63,480	\$ 63,480	100%
12435	2019	Energy Storage & Distribution Energy Resources Phase 3B	\$ 344,285	\$ 213,081	62%
12437	2019	Dispatch Operating Target Tariff Clarification DOT	\$ 138,916	\$ 118,921	86%
12439	2019	Day Ahead Nodal Pricing Model	\$ 1,383,005	\$ 1,346,210	97%
12441	2019	Day Ahead Reliability Tool (DART)	\$ 874,109	\$ 812,593	93%
12443	2020	Operation System Improvement 2020	\$ 79,518	\$ 79,518	100%
12446	2020	Intertie Deviation Settlement	\$ 101,005	\$ 101,005	100%
12447	2020	EIM Enhancements 2020	\$ 455,601	\$ 445,703	98%
12448	2020	FERC 841 Requested Adjustments	\$ 35,572	\$ 35,572	100%
12450	2020	Slow Demand Response	\$ 182,847	\$ 158,518	87%
12451	2020	Aliso Canyon Phase 5	\$ 144,338	\$ 117,281	81%
12452	2020	CCE Tariff Clarification	\$ 19,520	\$ 19,520	100%
12453	2020	FRP Improvements Buffer & Min	\$ 160,389	\$ 83,379	52%
12454	2,020.00	Hybrid Resources Phase 1	153,873.50	158,874.54	103%
12515	2018-2020	RIMS Enhancement	\$ 612,622	\$ 612,345	100%
12520	2020	Generation Deliverability Assessment	\$ 21,875	\$ 21,813	100%
12519 21402	2019 2020	Campus Operation 2019 & 2020	\$ 551,182	\$ 551,182	100%
12651 12652	2020	2020 Hardware & Software Purchase	\$ 3,000,000	\$ 3,000,000	100%
25		Total Capital Projects	\$ 12,661,108	\$ 11,016,598	87%

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<i>Requirements and Other Projects</i>					
21367	2019	Intertie Deviation Settlement	\$ 149,597	\$ 149,597	100%
21372	2019	TSI 2019 Non Capital	\$ 650,000	\$ 647,522	100%
21391	2020	IT Applications Robustness Enhancements	\$ 7,500	\$ 7,333	98%
21403	2020	OSI 2020 Non Capital	\$ 1,220,482	\$ 1,158,326	95%
21405	2020	RC Enhancements 2020	\$ 61,568	\$ 61,568	100%
21407	2020	Generation Deliverability Assessment	\$ 37,905	\$ 37,905	100%
21411	2020	Technology System2020	\$ 824,240	\$ 739,538	90%
21413	2020	RIMS Enhancements 2 Requirements	\$ 30,074	\$ 30,074	100%
21419	2020	System Market Power Mitigation	\$ 43,575	\$ 43,494	100%
21420	2020	Hybrid Resources Phase 1	\$ 49,718	\$ 49,718	100%
21421	2020	CRR System Replacement	\$ 36,750	\$ 36,750	100%
21422	2020	Casewise Replacement	\$ 46,526	\$ 46,526	100%
21423	2020	Tie Non-Generating Resources	\$ 77,056	\$ 77,056	100%
21424	2020	CCE Tariff Clarification	\$ 29,172	\$ 29,172	100%
21426	2020	FRP Improvement Deliverability	\$ 44,521	\$ 44,521	100%
21427	2020	Barr System Replacement	\$ 47,033	\$ 47,033	100%
21431	2020	Variable Operation & Maintenance Cost Review	\$ 23,399	\$ 23,399	100%
21433	2020	FERC 831-Import Bidding & Market Parameters	\$ 49,046	\$ 49,046	100%
21434	2020	ESDER Phase 4	\$ 56,675	\$ 56,675	100%
21437	2020	Hybrid Resources Phase 2	\$ 67,371	\$ 67,371	100%
21438	2020	Real Time Settlement Review	\$ 15,015	\$ 15,015	100%
21440	2020	Short Long Start Definition	\$ 10,057	\$ 10,057	100%
22		Total Requirements and Other Projects	\$ 3,577,279	\$ 3,427,694	96%
47		Grand Total Completed Projects	\$ 16,238,387	\$ 14,444,292	89%