

California ISO
Projects Completed July 2021 through June 2022

Capital ID #	Year Approved	Project Description	Approved Project Budget	Final Cost	% Completed to Budget
Capital Projects					
12245	2019	Settlements Replacement	\$ 69,555	\$ 69,555	100%
12249	2020	Market Software Performance & Robustness Improvements	\$ 460,000	\$ 363,906	79%
12260	2021	COTP-WAPA Settlements	\$ 20,224	\$ 18,884	93%
12440	2020	Topology State Estimator	\$ 854,467	\$ 854,467	100%
12442	2021	AIM Enhancements	\$ 200,995	\$ 208,449	104%
12445	2020	Technology System Improvement 2020	\$ 65,760	\$ 65,760	100%
12457	2020	Intertie Shadow Pricing	\$ 71,350	\$ 45,851	64%
12458	2020	Variable Operation & Maintenance Cost Review	\$ 233,110	\$ 230,319	99%
12459	2021	Operation System Improvements 2021	\$ 24,853	\$ 24,853	100%
12463	2021	Real Time Settlement Review	\$ 66,799	\$ 66,799	100%
12467	2021	RA Enhancement Track 1	\$ 377,222	\$ 377,222	100%
12468	2021	Short Long Start Definition	\$ 25,987	\$ 26,547	102%
12469	2021	DA Nodal Pricing Model Phase 2	\$ 381,523	\$ 312,221	82%
12471	2021	RA Enhancement Track 1B	\$ 92,890	\$ 92,773	100%
12473	2021	Joint Owned Units Pilot	\$ 943,547	\$ 943,547	100%
12483	2022	Summer 2022 Preparedness	\$ 42,195	\$ 34,090	81%
12522/21452	2021	2021 Campus Operation Funding	\$ 1,017,967	\$ 1,017,967	100%
12625	2013	IOOC Equipment Purchase	\$ 57,675	\$ 57,675	100%
12653/12654 /21441	2021	2021 Hardware & software Purchases	\$ 2,512,077	\$ 2,512,077	100%
19		Total Capital Projects	\$ 7,518,195	\$ 7,322,961	97%

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Requirements and Other Projects					
21373	2019/2020	WebSDK & Application Stack Upgrade	\$ 488,372	\$ 488,030	100%
21417	2021	CTS - Non Cap	\$ 14,400	\$ 14,400	100%
21429	2020	Oracle 19c Upgrade	\$ 163,882	\$ 143,007	87%
21436	2020	RC Forecast & Schedule Data Reporting Automation	\$ 32,670	\$ 32,670	100%
21439	2020	Advanced Curtailment Tool	\$ 75,272	\$ 75,272	100%
21445	2020/2021	RA Enhancement Track 1 Req.	\$ 82,681	\$ 82,681	100%
21449	2021	Flex Alert Enhancements	\$ 228,000	\$ 228,000	100%
21450	2021	Summer 2021 Readiness Non Cap	\$ 102,737	\$ 102,737	100%
21451	2021	Vendor Portal	\$ 5,994	\$ -	0%
21453	2021	Disconnected Pnode	\$ 6,234	\$ 6,234	100%
21454	2021	EIM Sub-Entity Scheduling Coordinator Role	\$ 50,774	\$ 50,774	100%
21458	2021	Joint Owned Units	\$ 225,749	\$ 225,749	100%
21459	2021	High -Resolution Rapid Refresh (HRRR)	\$ 19,037	\$ 19,037	100%
21460	2021	CBEA SC Energy Bids in SIBR	\$ 9,977	\$ 9,977	100%
21461	2021	DA Nodal Pricing Model Phase 2	\$ 16,215	\$ 16,215	100%
21466	2021	RA Enhancement Track 1B	\$ 15,590	\$ 15,590	100%
21467	2021	MV-90 Upgrade	\$ 2,680	\$ 2,680	100%
21468	2021	MIC Enhancements	\$ 28,265	\$ 28,265	100%
21471	2021	COTP WAPA Settlements	\$ 7,690	\$ 7,690	100%
21473	2021	WEIM Resource Sufficiency Evaluation Enhancements	\$ 46,835	\$ 46,835	100%
21474	2021	Summer 2022 (Reliability Demand Response Resources (RDRR) Track 1)	\$ 18,326	\$ 18,326	100%
21479	2021	OMS and ITS Prepaid Funding	\$ 180,600	\$ 180,600	100%
21480	2022	Transmission service & Market Scheduling Priorities Phase 1	\$ 5,576	\$ 5,576.00	100%
21483	2022	Central Procurement Entity	\$ 6,956	\$ 6,956	100%
21488	2022	Bronto (FlexAlert) email upgrade	\$ 125,000	\$ 59,850	48%
25		Total Requirements and Other Projects	\$ 1,959,512	\$ 1,867,151	95%
44		Grand Total Completed Projects	\$ 9,477,707	\$ 9,190,112	97%