

California ISO Projects Completed April 2016 through June 2017

<i>Capital ID #</i>	<i>Year Approved</i>	<i>Project Description</i>	<i>Approved Project Budget</i>	<i>Final Cost</i>	<i>% Completed to Budget</i>
Capital Projects					
12216	2015	EMMS Phase 3B	\$ 1,174,965.00	\$ 1,148,268	98%
12218	2015	JBPM (MDS) Replacement	\$ 94,320.00	\$ 94,264	100%
12221	2015	DR Enhancement for Operations	\$ 181,081.40	\$ 181,081	100%
12222	2015	DRRS Enhancements	\$ 210,933.00	\$ 231,130	110%
12225	2016	OMAR Replacement	\$ 183,878	\$ 260,067	141%
12226	2016	MV90 Upgrade	\$ 21,054	\$ 20,959	100%
12227	2016	Sonic Replacement	\$ 202,362	\$ 175,013	86%
12228	2016	Energy Costs & Indices Calculator Phase 2A	\$ 8,280	\$ 8,280	100%
12229	2016	MRI-S Metering Enhancements	\$ 28,000	\$ 28,000	100%
12362	2015	2015 Operations & MSE Enhancements	\$ 769,499.30	\$ 764,071	99%
12363	2015	BARR 2.0	\$ 128,887.62	\$ 128,888	100%
12364	2015	Capacity Procurement Mechanism CPM	\$ 936,053	\$ 937,735	100%
12366	2015	Initial Conditions & Transitional Schema	\$ 189,268	\$ 179,782	95%
12368	2015	Reliability Services Initiative	\$ 991,765	\$ 792,809	80%
12369	2015/ 2016	Pricing Enhancements	\$ 1,256,282	\$ 1,131,626	90%
12370	2015	Commitment Costs Phase 2	\$ 174,850	\$ 172,373	99%
12371	2015	Interchange Scheduling Mgmt.	\$ 136,974	\$ 127,225	93%
12373	2015	Bid Cost Recovery & Variable Energy Resources Settlement	\$ 250,000	\$ 102,917	41%
12372	2015	RTPD LMPM Improvements	\$ 165,000	\$ 164,898	100%
12375	2016	Market Clearing Tech. Upgrade	\$ 217,465	\$ 130,237	60%
12376	2016	Bidding Rules Enhancement Part A	\$ 89,211	\$ 88,223	99%
12377	2016	Flexible Ramping Product	\$ 1,260,807	\$ 1,185,364	94%
12380	2016	RTD LMPM	\$ 363,043	\$ 405,172	112%

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12379	2016	EIM Yr. 1 Phase 2	\$ 406,849	\$ 375,295	92%
12384	2016	BAL-003 Frequency Response	\$ 16,303	\$ 18,890	116%
12385	2016	Aliso Canyon	\$ 100,402	\$ 89,095	89%
12386	2016	Energy Storage & Distributed Energy Resources	\$ 228,291	\$ 228,669	100%
12389	2016	CRR Clawback Modification	\$ 31,033	\$ 27,196	88%
12507	2014	Access Identity Mgmt.	\$ 115,967	\$ 97,266	84%
12510	2015	Lincoln Video Wall	\$ 225,000	\$ 194,323	86%
12511	2016	2016 Campus Operations Purchase	\$ 250,000.00	\$ 250,000	100%
12635/ 12636	2016	2016 Hardware & Software Purchases	\$ 1,600,000.00	\$ 1,600,000	100%
12637	2016	Folsom Security Upgrade	\$ 265,953	\$ 261,236	98%

32 **Total Completed Capital Projects** \$ 12,273,776 \$ 11,600,352

Requirements and Other Projects					
21192	2013	Expanding Metering & Telemetry Stakeholder Initiative	\$ 15,000	\$ 7,335	49%
21206	2014/ 2016	BAL-003 Frequency Response	\$ 25,297	\$ 69,732	276%
21217	2014	EMMS Phase 3	\$ 23,775.00	\$ 23,775	100%
21221	2015	Reliability Services Initiative Requirements	\$ 135,885	\$ 135,885	100%
21225	2015	HWSW Non Capital 2015	\$ 64,282	\$ 64,282	100%
21226	2015	Interchange Scheduling Mgmt. Improve. & Automation	\$ 204,462	\$ 213,862	105%
21235	2015	2015 OE Non Capital	\$ 562,051	\$ 561,951	100%
21236	2015	Post Market Consolidation	\$ 74,400	\$ 54,626	73%
21241	2015	Post Implementation OMS Enhancements	\$ 235,866	\$ 219,496	93%
21249	2015/ 2016	Energy Costs & Indices Calculator -Phase 2	\$ 41,364	\$ 41,364	100%
21254	2015	Reactive Power & Financial Compensation	\$ 10,645	\$ 10,375	97%

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21255	2015	Commitment Cost Phase 3	\$ 64,061	\$ 64,061	100%
21256	2015	State Estimator - Requirements	\$ 101,700	\$ 65,263	64%
21257	2015	Reliability Services Initiative Phase 1B	\$ 28,882.00	\$ 28,882	100%
21260	2015/ 2016	Energy Storage & Distributed Energy Resources	\$ 7,000	\$ 10,580	151%
21261	2015	Reliability Services Initiative Phase 2 Requirements	\$ 1,883	\$ 1,883.00	100%
21262	2015	Bidding Rules Enhancements	\$ 7,000	\$ 3,848	55%
21264	2016	Application Recovery Alignment	\$ 7,000	\$ 2,573	37%
21265	2016/ 2016	Flexible Ramping Product	\$ 78,593.10	\$ 78,593	100%
21267	2016	Market Clearing Tech. Upgrade Requirements	\$ 5,735	\$ 5,735	100%
21268	2016	GenDB Masterfile Consolidation	\$ 28,071	\$ 28,071	100%
21271	2016	Real Time Dispatch Local Market Power Mitigation	\$ 14,602	\$ 14,602	100%
21274	2016	SB 350	\$ 3,259,985	\$ 3,129,149	96%
21275	2016	Bidding Rules Enhancement Part B	\$ 49,863	\$ 49,863	100%
21277	2016	2016 Ops/Tech Common Goal	\$ 69,853	\$ 69,853	100%
21280	2016	Aliso Canyon	\$ 11,040	\$ 11,040	100%
21282	2016	Imperial Valley Phase Shifter Modeling	\$ 22,125	\$ 22,125	100%
21284	2016	CRR Clawback Modification	\$ 8,530	\$ 8,530	100%
21286	2016/ 2017	TOP IRO Standard Implementation	\$ 271,805	\$ 284,907	105%
21291	2016/ 2017	EIM 2017	\$ 123,925	\$ 123,925	100%
21294	2016	Aliso Canyon Phase 2	\$ 5,040	\$ 2,676	53%
21295	2016	In House FSP	\$ 16,676	\$ 16,676	100%
21308	2017	Green House Gas Enhancements for EIM	\$ 17,650	\$ 17,650	100%

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Total Requirements & Other Projects

\$ 5,594,046

\$ 5,443,167

Grand Total Completed Projects

\$ 17,867,822

\$ 17,043,519