

2012-2016 California ISO Active Projects as of March 31, 2016

Capital ID #	Year Apprd.	Project Description	Approved Budget	Forecast	Project to Date Actual 2016	\$ % Comp I.	Issued Contracts Unbilled	Total Remaining BALANCE
Full Funding for Active Capital Projects								
12213	2014	CUI -- WebSDK Enhancements	\$ 470,968	\$ 472,250	\$ 374,293	79%	97,957	\$ (1,282)
12215	2015	Logging System Replacement	\$ 300,841	\$ 300,841	\$ 38,003	13%		\$ 262,838
12216	2015	EMMS Phase 3B	\$ 1,174,965	\$ 1,174,965	\$ 536,924	46%	615,142	\$ 22,900
12217	2015	Multi-Active Mode Operations (Parallel Operations)	\$ 387,922	\$ 387,922	\$ 264,204	68%	94,516	\$ 29,202
12218	2015	JBPM (MDS) Replacement	\$ 94,320	\$ 94,320	\$ 90,239	96%		\$ 4,081
12219	2015	State Estimator	\$ 681,085	\$ 681,085	\$ 252,486	37%	49,980	\$ 378,619
12220	2015	Forecasting & Data Transparency	\$ 509,944	\$ 517,824	\$ 365,323	72%	6,310	\$ 146,191
12221	2015	DR Enhancement for Operations	\$ 251,631	\$ 251,631	\$ 140,431	56%	-	\$ 111,200
12222	2015	DRRS Enhancements	\$ 210,933	\$ 210,933	\$ 142,387	68%	30,800	\$ 37,746
12223	2015	EMMS 3C	\$ 1,684,764	\$ 1,684,764	\$ 19,665	1%	1,437,964	\$ 227,135
12225	2016	OMAR Replacement	\$ 146,867	\$ 146,867	\$ 50,314	34%		\$ 96,553
12226	2016	MV90 Upgrade	\$ 21,054	\$ 21,054	\$ -	0%	21,054	\$ -
12227	2016	Sonic Replacement	\$ 297,630	\$ 297,630	\$ -	0%		\$ 297,630
12346	2012	Circular Scheduling Market Rule	\$ 229,685	\$ 229,685	\$ 147,475	64%		\$ 82,210
12349	013/ 201	Contingency Modeling Enhancements CME	\$ 1,654,535	\$ 1,654,535	\$ 1,456,685	88%	185,654	\$ 12,196
12355	2013	Integrated Optimal Outage Coordination	\$ 1,153,790	\$ 1,153,790	\$ 786,324	68%	273,783	\$ 93,683
12362	2015	2015 Operations & MSE Enhancements	\$ 792,834	\$ 792,834	\$ 755,856	95%	29,467	\$ 7,510
12363	2015	BARR 2.0	\$ 131,469	\$ 143,803	\$ 143,381	109%	422	\$ (12,334)
12364	2015	Capacity Procurement Mechanism CPM	\$ 936,053	\$ 936,053	\$ 750,931	80%	182,223	\$ 2,899
12366	2015	Initial Conditions & Transitional Schema	\$ 189,268	\$ 189,268	\$ 8,527	5%	171,255	\$ 9,486
12368	2015	Reliability Services Initiative	\$ 991,765	\$ 1,012,817	\$ 1,012,817	102%		\$ (21,052)
12369	2015	Pricing Enhancements	\$ 779,747	\$ 779,747	\$ 176,128	23%	39,200	\$ 564,419
12370	2015	Commitment Costs Phase 2	\$ 174,850	\$ 174,850	\$ 174,846	100%		\$ 4
12371	2015	Interchange Scheduling Mgmt.	\$ 172,976	\$ 172,976	\$ 122,189	71%	4,276	\$ 46,511

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12372	2015	RTPD LMPM Improvements	\$ 165,000	\$ 167,285	\$ 21,500	13%	145,785	\$ (2,285)
12373	2016	Bid Cost Recovery & Variable Energy Resources Settlement	\$ 250,000	\$ 250,000	\$ 37,909	15%	36,163	\$ 175,928
12374	2016	Operations Enhancements 2016	\$ 900,000	\$ 900,000	\$ 2,000	0%	150,000	\$ 748,000
12375	2016	Market Clearing Tech. Upgrade	\$ 217,465	\$ 217,465	\$ 17,616	8%		\$ 199,849
12376	2016	Bidding Rules Enhancement Part A	\$ 89,211	\$ 89,211	\$ 44,556	50%	39,267	\$ 5,388
12377	2016	Flexible Ramping Product	\$ 1,260,983	\$ 1,260,983	\$ 13,258	1%	83,175	\$ 1,164,550
12378	2016	2016 Market Services Enhancements	\$ 250,000	\$ 250,000	\$ 7,500	3%	154,917	\$ 87,583
12379	2016	EIM Yr. 1 Phase 2	\$ 406,849	\$ 406,849	\$ 28,662	7%	160,413	\$ 217,774
12380	2016	RTD LMPM	\$ 363,043	\$ 363,043	\$ 8,596	2%	291,723	\$ 62,724
12381	2016	Voltage Stability Enhancements	\$ 422,000	\$ 422,000	\$ -	0%	330,368	\$ 91,632
12382	2016	MIP Engine Improvements	\$ 130,000	\$ 130,000	\$ 15,000	12%		\$ 115,000
12383	2016	OE 2016 System Changes	\$ 250,000	\$ 250,000	\$ -	0%		\$ 250,000
12384	2016	BAL-003 Frequency Response	\$ 14,243	\$ 14,243	\$ -	0%		\$ 14,243
12504	2011/ 2012/ 2013	RIMS 5	\$ 932,834	\$ 932,834	\$ 723,601	78%	19,657	\$ 189,577
12507	2014	Access Identity Mgmt.	\$ 115,967	\$ 115,967	\$ 97,266	84%		\$ 18,701
12510	2015	Alhambra Video Wall	\$ 225,000	\$ 225,000	\$ -	0%		\$ 225,000
12511	2016	2016 Campus Operations	\$ 250,000	\$ 250,000	\$ -	0%		\$ 250,000
12635	2016	2016 Hardware Budget	\$ 1,400,000	\$ 1,400,000	\$ 33,456	2%		\$ 1,366,544
12636	2016	2016 Software Purchases	\$ 200,000	\$ 200,000	\$ 15,551	8%		\$ 184,449
12637	2016	Folsom Security Upgrade	\$ 265,953	\$ 265,953	\$ -	0%		\$ 265,953
44		Total Active Projects	\$ 21,548,443	\$ 21,593,276	\$ 8,875,900		\$ 4,651,470	\$ 8,028,954

Active Requirements and Other Projects

21097	2011	Corporate Enhancements	\$ 250,000	\$ 250,000	\$ 181,104	72%		\$ 68,897
21114	2016	Initialization funding 2016	\$ 27,027	\$ 27,027	\$ -	0%		\$ 27,027
21136	2012	Circular Scheduling Non Cap	\$ 111,315	\$ 111,315	\$ 111,315	100%		\$ -
21192	2013	Expanding Metering & Telemetry Stakeholder Initiative	\$ 15,000	\$ 15,000	\$ 7,335	0%		\$ 7,665

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21206	2014/2016	BAL-003 Frequency Response	\$ 36,357	\$ 36,357	\$ 17,495	48%		\$ 18,862
21216	2014	Master File to SOA Modeling	\$ 722,354	\$ 722,354	\$ 412,353	57%	228,374	\$ 81,627
21221	2015	Reliability Services Initiative Requirements	\$ 135,885	\$ 135,885	\$ 135,885	100%	-	\$ -
21226	2015	Interchange Scheduling Mgmt. Improve. & Automation	\$ 168,160	\$ 168,160	\$ 163,497	97%	2,320	\$ 2,343
21229	2016	Peak RC Additional Data	\$ 33,939	\$ 33,939	\$ 4,071	12%	6,138	\$ 23,730
21235	2015	2015 OE Non Capital	\$ 538,717	\$ 538,617	\$ 517,637	96%	20,980	\$ 0
21236	2015	Post Market Consolidation	\$ 74,400	\$ 74,400	\$ 54,626	73%		\$ 19,774
21241	2015	Post Implementation OMS Enhancements	\$ 235,866	\$ 235,866	\$ 203,306	86%	8,158	\$ 24,402
21249	015/ 201	Energy Costs & Indices Calculator - Phase 2	\$ 40,000	\$ 40,000	\$ 38,029	95%		\$ 1,971
21250	2015	EIM year 1 training	\$ 420,000	\$ 420,000	\$ 42,278	10%		\$ 377,722
21254	2015	Reactive Power & Financial Compensation	\$ 270	\$ 270	\$ 270	100%		\$ -
21255	2015	CCE3 change request Initialization	\$ 6,363	\$ 6,363	\$ -	0%		\$ 6,363
21255	2015	Commitment Cost Phase 3	\$ 39,700	\$ 39,700	\$ 36,695	92%		\$ 3,005
21256	2015	State Estimator - Requirements	\$ 101,700	\$ 101,700	\$ 59,413		5,850	\$ 36,437
21257	2015	RSI Phase 1B CR	\$ 6,000	\$ 6,000	\$ -	0%		\$ 6,000
21257	2015	Reliability Services Initiative Phase 1B	\$ 15,000	\$ 15,000	\$ 9,694	65%		\$ 5,306
21260	015/ 201	Energy Storage & Distributed Energy Resources	\$ 23,000	\$ 23,000	\$ 6,670	29%		\$ 16,330
21262	2015	Bidding Rules Enhancements	\$ 7,000	\$ 7,000	\$ 3,848	55%		\$ 3,152
21264	2016	Application Recovery Alignment	\$ 7,000	\$ 7,000	\$ 2,573	37%		\$ 4,427
21265	015/ 201	Flexible Ramping Product	\$ 78,417	\$ 78,417	\$ 78,417	100%		\$ -
21267	2016	Market Clearing Tech. Upgrade Requirements	\$ 5,735	\$ 5,735	\$ 5,735	100%		\$ -
21268	2016	GenDB Masterfile Consolidation	\$ 25,500	\$ 25,500	\$ 4,235	17%		\$ 21,265
21269	2016	OE 2016 Non Capital	\$ 100,000	\$ 100,000	\$ -	0%	50,000	\$ 50,000
21271	2016	Real Time Dispatch Local Market Power Mitigation	\$ 14,602	\$ 14,602	\$ 14,602	100%		\$ -
21274	2016	SB 350 Consultants	\$ 1,996,000	\$ 1,996,000	\$ 1,167,872		828,128	\$ (0)
21275	2016	Bidding Rules Enhancement Part B	\$ 27,500	\$ 27,500	\$ 4,550	17%		\$ 22,950

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21277	2016	2016 Ops/Tech Common Goal	\$ 49,800	\$ 49,800	\$ 3,795	8%		\$ 46,005
21279	2016	Gas Burn Report UI/API	\$ 25,000	\$ 25,000	\$ -	0%		\$ 25,000
21280	2016	Aliso Canyon	\$ 12,000	\$ 12,000	\$ -	0%		\$ 12,000
21281	2016	OE 2016 System Changes-Non Cap	\$ 200,000	\$ 200,000	\$ -	0%	100,000	\$ 100,000
34		Total Requirements & other Projects	\$ 5,549,607	\$ 5,549,507	\$ 3,287,299		\$ 1,249,949	\$ 1,012,260
		Grand Total Active Projects	<u>\$ 27,098,051</u>	<u>\$ 27,142,783</u>	<u>\$ 12,163,199</u>		<u>\$ 5,901,419</u>	<u>\$ 9,041,213</u>