

California ISO Active Projects as of June 30, 2018

Capital ID #	Year Approved	Project Description	Approved Project Budget	Forecast	Project to Date 2018	\$ % Compltd	Issued Contracts Unbilled	Total Remaining BALANCE
Capital Projects								
12213	2014	CUI -- WebSDK Enhancements	\$ 470,968	\$ 472,250	\$ 406,470	86%	\$ 65,780	\$ -
12215	2015	Logging System Replacement	\$ 300,841	\$ 300,841	\$ 38,003	13%		\$ 262,838
12223	2015	EMMS 3C	\$ 1,684,764	\$ 1,684,764	\$ 1,056,601	63%	\$ 631,091	\$ (2,927)
12224	2016	EMS	\$ 13,115,680	\$ 13,130,124	\$ 5,529,248	42%	\$ 6,307,690	\$ 1,278,742
12230	2017	ETCC Replacement	\$ 741,311	\$ 741,311	\$ 376,747	51%		\$ 364,564
12233	2017	Market Enhancement for EMS	\$ 128,950	\$ 114,506	\$ 121,897	95%	\$ 7,053	\$ (0)
12234	2017	CRR Upgrade	\$ 202,000	\$ 202,000	\$ 86,400	43%	\$ 115,600	\$ -
12235	2017	ARC Phase 3	\$ 161,898	\$ 161,898	\$ 36,469	23%		\$ 125,428
12236	2018	Settlements Performance Improvements	\$ 215,105	\$ 215,105	\$ 25,538	12%		\$ 189,567
12237	2018	CMRI & OASIS Performance Improvements	\$ 98,168	\$ 98,168	\$ 43,372	44%		\$ 54,796
12238	2018	CRR Auction Efficiency 1A	\$ 554,706	\$ 554,706	\$ 9,653	2%	\$ 84,750	\$ 460,303
12374	2016/ 2017	Operations Enhancements 2016/2017	\$ 24,746	\$ 24,746	\$ 24,746	100%		\$ (0.00)
12393	2017	Technology System Improvements	\$ 94,008	\$ 94,008	\$ 23,458	25%		\$ 70,550
12396	2017	Commitment cost Enhancements Phase 3	\$ 1,508,483	\$ 1,508,483	\$ 992,030	66%	\$ 435,630	\$ 80,824
12398	2017	Green House Gas Enhancements for EIM	\$ 306,796	\$ 306,796	\$ 184,240	60%	\$ -	\$ 122,556
12399	2017	Weather & Geospatial Data Sourcing	\$ 197,179	\$ 197,179	\$ 112,990	57%		\$ 84,189
12412	2017	Energy Storage& Distribution Energy Resources Phase 2 (ESDER)	\$ 338,608	\$ 338,608	\$ 110,498	33%		\$ 228,110
12413	2017	BAL-002 NERC Standards	\$ 16,804	\$ 16,804	\$ 13,803	82%	\$ -	\$ 3,001
12414	2017	Operations System Improvements (OSI)	\$ 100,000	\$ 100,000	\$ -	0%		\$ 100,000
12415	2017	ETSR Enhancements for EIM	\$ 239,529	\$ 239,529	\$ 35,929	15%	\$ 203,600	\$ -
12416	2018	Generator Contingency & RAS Modeling	\$ 846,446	\$ 846,446	\$ 37,761	4%	\$ 173,496	\$ 635,189
12417	2018	RC Services	\$ 5,635,603	\$ 5,635,603	\$ 81,597	1%	\$ 100,800	\$ 5,453,207
12418	2018	Day Ahead Market Enhancements (POC)	\$ 258,000	\$ 258,000		0%	\$ 174,186	\$ 83,814
12419	2018	Integration Services	\$ 322,560	\$ 322,560	\$ 22,000	7%	\$ 187,000	\$ 113,560
12420	2018	CTA with BPA 2018	\$ 181,598	\$ 181,598	\$ 39,897	22%	\$ 80,843	\$ 60,858
12421	2018	EIM Enhancements 2018	\$ 321,203	\$ 321,203	\$ 20,025	6%		\$ 301,178

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12512	2016/ 2017/ 2018/	Facilities Replacement Reserve	\$ 3,566,574	\$ 3,565,014	\$ -	0%		\$ 3,565,014
12513	2017	Campus Ops 2017	\$ 500,000	\$ 500,000	\$ 330,962	66%		\$ 169,038
12625	2013	IOOC Equipment Purchase	\$ 283,000	\$ 283,000	\$ 113,739	40%	\$ 2,323	\$ 166,938
12639/ 12640	2017	Misc. Hardware & Software	\$ 4,863,802	\$ 4,863,802	\$ 3,535,776	73%	\$ 74,294	\$ 1,253,732
12645	2018	HF Radios (Business Continuity)	\$ 41,325	\$ 41,325	\$ -	0%		\$ 41,325

31	Total Capital Projects	\$ 37,320,654	\$ 37,320,376	\$ 13,409,848	36%	\$ 8,644,135	\$ 15,266,392
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Requirements and Other Projects

21269	2016/ 2017	OE 2016/2017 Non Capital	\$ 1,915,596	\$ 1,915,596	\$ 1,590,232	83%		\$ 325,364
21276	2016/ 2017	MSE 2016/2017 Non Cap	\$ 509,116	\$ 509,116	\$ 449,002	88%	60,114.68	\$ -
21278	2016	EMS Capital Non Capital	\$ 243,270	\$ 243,270	\$ 46,950	19%		\$ 196,319
21289	2018	EIA 930 Data Request	\$ 27,673	\$ 27,673	\$ 26,131	94%		\$ 1,542
21301	2016	MQS Redesign	\$ 20,000	\$ 20,000	\$ 11,274	56%		\$ 8,726
21305	2017	Technology System Improvements	\$ 1,476,542	\$ 1,476,542	\$ 1,115,518	76%		\$ 361,024
21317	2017	RC Services Non Capital Costs	\$ 447,138	\$ 447,138	\$ 244,413	55%		\$ 202,725
21329	2017	Iron Point Lobby Redesign	\$ 402,800	\$ 402,800	\$ 95,850	24%	54,250.00	\$ 252,700
21330	2017	CBT Training Development for SC	\$ 400,000	\$ 400,000	\$ 18,349	5%	300,000.00	\$ 81,651
21333	2017	Commitment Costs & Default Energy Bid Requirements	\$ 31,000	\$ 31,000	\$ 46,425	150%		\$ (15,425)
21334	2017	Resolution Settlements Disputes	\$ 300,000	\$ 300,000	\$ 79,573	27%	200,000.00	\$ 20,427
21335	2017	RIMS Enhancements	\$ 33,600	\$ 33,600	\$ 10,999	33%		\$ 22,601
21336	2017	Operations Training Environment Improve. /EMS	\$ 32,000	\$ 32,000	\$ 9,375	29%		\$ 22,625
21337	2017	Extending Market Operation Functionality	\$ 6,000	\$ 6,000	\$ -	0%		\$ 6,000
21338	2017/ 2018	Model Synchronization & Activation	\$ 20,500	\$ 20,500	\$ 10,245	50%		\$ 10,255
21340	2017	Operations System Improvements Non Capital	\$ 1,149,956	\$ 1,150,000	\$ 199,507	17%	500,000.00	\$ 450,493
21341	2018	Contingency Modeling Enh. Transmission - (on hold)	\$ 42,000	\$ 42,000	\$ 53,972	129%		\$ (11,972)
21342	2018	EMNA Functional Enhancements	\$ 12,600	\$ 12,600	\$ 9,240	73%		\$ 3,360
21343	2018	ADS UI Replacement (coming for project funding)	\$ 30,030	\$ 30,030	\$ 59,058	197%		\$ (29,028)
21349	2018	Review of RMR & CPM	\$ 30,000	\$ 30,000	\$ 4,309	14%		\$ 25,691

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21350	2018	CRR Auction Efficiency 1B	\$ 44,000	\$ 44,000	\$ 8,627	20%		\$ 35,373
21351	2018	Imbalance Conformance Enhancements	\$ 22,330	\$ 22,330	\$ 8,360	37%		\$ 13,970
21352	2018	FERC Order 842	\$ 5,500	\$ 5,500	\$ 3,300	60%		\$ 2,200
21353	2018	FERC Order 844 Uplift Cost Allocation & Transparency	\$ 32,500	\$ 32,500	\$ 7,100	22%		\$ 25,400
21354	2018	Energy Storage & Distributed Energy Resources Phase 3	\$ 8,000	\$ 8,000	\$ -	0%		\$ 8,000
25		Total Requirements & Other Projects	\$ 7,242,152	\$ 7,242,196	\$ 4,107,809	57%	\$ 1,114,365	\$ 2,020,022
56		Grand Total Active Projects	\$ 44,562,805	\$ 44,562,571	\$ 17,517,657	39%	\$ 9,758,500	\$ 17,286,414