

California ISO Active Projects as of June 30, 2017

<i>Capital ID #</i>	<i>Year Apprd.</i>	<i>Project Description</i>	<i>Approved Budget</i>	<i>Forecast</i>	<i>Project to Date 2017</i>	<i>% Comp</i>	<i>Issued Contracts Unbilled</i>	<i>Total Remaining BALANCE</i>
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
12217	2015	Multi-Active Mode Operations (Parallel	\$ 387,922	\$ 387,922	\$ 264,204	68%	\$ 94,516	\$ 29,202
12219	2015	State Estimator	\$ 681,085	\$ 681,085	\$ 410,251		\$ 236,468	\$ 34,366
12220	2015	Forecasting & Data Transparency	\$ 509,944	\$ 517,824	\$ 498,386	98%		\$ 19,438
12223	2015	EMMS 3C	\$ 1,684,764	\$ 1,684,764	\$ 309,750	18%	\$ 1,147,879	\$ 227,135
12224/ 21278	2016	EMS	\$ 13,500,000	\$ 13,500,000	\$ 2,954,617	22%	\$ 7,240,943	\$ 3,304,440
12230	2017	ETCC Replacement	\$ 741,311	\$ 741,311	\$ 28,921	4%		\$ 712,390
12231	2017	SIBR WebSDK Upgrade	\$ 429,272	\$ 429,272	\$ 162,603	38%	\$ 227,644	\$ 39,025
12232	2017	RTD Performance Improvements	\$ 300,510	\$ 300,510	\$ 48,418	16%	\$ 242,092	\$ 10,000
12346	2012	Circular Scheduling Market Rule	\$ 229,685	\$ 229,685	\$ 151,360	66%		\$ 78,325
12349	2013/ 2014	Contingency Modeling Enhancements CME	\$ 1,654,535	\$ 1,654,535	\$ 1,576,855	95%	\$ 65,484	\$ 12,196
12355	2013	Integrated Optimal Outage Coordination	\$ 1,185,533	\$ 1,185,533	\$ 910,502	77%	\$ 268,787	\$ 6,243
12374	2016/ 2017	Operations Enhancements 2016/2017	\$ 1,067,500	\$ 1,067,500	\$ 5,571	1%	\$ 325,172	\$ 736,757
12378	2016/ 2017	2016-2017 Market Services Enhancements	\$ 149,159	\$ 149,159	\$ 50,541	34%		\$ 98,618
12381	2016	Voltage Stability Enhancements	\$ 422,000	\$ 422,000	\$ 276,995	66%	\$ 66,073	\$ 78,932
12382	2016/ 2017	MIP Engine Improvements	\$ 401,000	\$ 401,000	\$ 256,070	64%	\$ 7,555	\$ 137,375
12387	2016	2016 Ops/Tech Common Goal	\$ 458,816	\$ 458,816	\$ 342,057	75%	\$ 54,655	\$ 62,104
12388	2016	GenDB Masterfile Consol. & Gas Burn Report	\$ 339,420	\$ 339,420	\$ 116,101	34%		\$ 223,319
12390	2016	Aliso Canyon Phase 2	\$ 100,160	\$ 100,160	\$ 19,105	19%	\$ 32,140	\$ 48,915
12391	2016	Bidding Rules Part B	\$ 343,193	\$ 343,193	\$ 157,789	46%		\$ 185,404
12392	2016/ 2017	Reliability Services Initiative 2017	\$ 1,100,287	\$ 1,100,287	\$ 308,361	28%		\$ 791,926
12393	2017	Technology System Improvements 2017	\$ 420,550	\$ 420,550	\$ 23,458	6%		\$ 397,092
12394	2017	In House VER Forecasting System	\$ 105,147	\$ 105,147	\$ 4,424	4%		\$ 100,723
12395	2017	Imperial Valley Phase Shifter	\$ 402,379	\$ 402,379	\$ 102,807	26%	\$ 241,324	\$ 58,248

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12396	2017	Commitment cost Enhancements Phase 3	\$ 1,263,770	\$ 1,263,770	\$ 90,475	7%	\$ 41,600	\$ 1,131,696
12397	2017	EIM Enhancements 2017	\$ 677,091	\$ 677,091	\$ 93,208	14%	\$ 196,680	\$ 387,203
12398	2017	Green House Gas Enhancements for EIM	\$ 306,796	\$ 306,796	\$ 55,315	18%	\$ 78,127	\$ 173,354
12399	2017	Weather & Geospatial Data Sourcing	\$ 265,668	\$ 265,668	\$ -	0%		\$ 265,668
12504	2011/ 2012/ 2013/	RIMS 5	\$ 1,832,375	\$ 1,832,375	\$ 1,169,887	64%		\$ 662,488
14180/ 21253	2015	Lincoln Operation Center	\$ 30,400,000	\$ 26,746,969	\$24,332,969	80%	\$ 414,000	\$ 5,653,031
12512	2016/ 2017	Facilities Replacement Reserve	\$ 3,650,000	\$ 3,650,000	\$ 57,962	2%		\$ 3,592,038
12513	2017	Campus Ops 2017	\$ 250,000	\$ 250,000	\$ 107,602	43%	\$ 8,953	\$ 133,445
12625	2013	IOOC Equipment Purchase	\$ 283,000	\$ 283,000	\$ 49,320	17%		\$ 233,680
12638	2017	Operations Turret Phone Replacements	\$ 344,760	\$ 344,760	\$ 181,891	53%	\$ 135,383	\$ 27,486
12641	2017	Folsom Network Purchase	\$ 328,732	\$ 328,732	\$ -	0%	\$ 304,210	\$ 24,522
12639/ 12640	2017	2017 Hardware & Software Purchases	\$ 2,000,000	\$ 2,000,000	\$ 592,795	30%	\$ 899,254	\$ 507,950
37		Total Capital Projects	\$ 68,988,172	\$ 65,344,303	\$ 36,155,042		\$ 12,394,720	\$ 20,447,572

Requirements and Other Projects								
21097	2011	Corporate Enhancements	\$ 250,000	\$ 250,000	\$ 222,104	89%	\$ 5,600	\$ 22,297
21114	2017	Project Initialization Funding	\$ 35,200	\$ 35,200	\$ -	0%		\$ 35,200
21216	2014	Master File to SOA Modeling	\$ 722,354	\$ 722,354	\$ 567,585	79%	\$ 80,329	\$ 74,441
21250	2015/ 2016	EIM year 1 training	\$ 570,000	\$ 570,000	\$ 550,905	97%		\$ 19,095
21269	2016/ 2017	Operations Enhancements 2016/2017 Non Capital	\$ 932,500	\$ 932,500	\$ 842,620	90%		\$ 89,880
21276	2016/ 2017	Market Services Enhance. 2016/2017 Non Cap	\$ 350,841	\$ 350,841	\$ 256,272	73%		\$ 94,569
21282	2016/ 2017	Imperial Valley Phase Shifter	\$ 81,963	\$ 81,963	\$ 51,063	62%		\$ 30,900
21283	2016	Wind & Solar VER Forecast	\$ 28,384	\$ 28,384	\$ 5,551	20%		\$ 22,833
21287	2016	Metering Rules Enhancements	\$ 45,270	\$ 45,270	\$ 5,175	11%		\$ 40,095
21288	2017	BPA Work Streams	\$ 38,560	\$ 38,560	\$ -	0%		\$ 38,560

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21293	2016	Frequency Response Analysis Tool	\$ 30,000	\$ 30,000	\$ -	0%		\$ 30,000
21295	2016	In House VER Forecasting System	\$ 250,000	\$ 250,000	\$ 4,186	2%		\$ 245,814
21297	2017	EIM Study for CENACE Baja Norte	\$ 90,000	\$ 90,000	\$ 45,000	50%		\$ 45,000
21300	2016	CMRI & OASIS Performance	\$ 20,000	\$ 20,000	\$ -	0%		\$ 20,000
21301	2016	MQS Redesign	\$ 20,000	\$ 20,000	\$ 4,875	24%		\$ 15,125
21302	2016/2017	ARC Phase 3	\$ 15,000	\$ 15,000	\$ 3,382	23%		\$ 11,618
21303	2017	SMUD- RegDown	\$ 28,900	\$ 28,900	\$ 7,763	27%		\$ 21,137
21305	2017	Technology System Improvements 2017	\$ 300,000	\$ 300,000	\$ 113,573	38%		\$ 186,427
21309	2017	Shared Architecture	\$ 30,340	\$ 30,340	\$ -	0%		\$ 30,340
21313	2017	Weather & Geospatial Data Sourcing	\$ 10,000	\$ 10,000	\$ 7,500	75%		\$ 2,500
21314	2017	Market Enhancement for EMS	\$ 12,000	\$ 12,000	\$ 3,100	26%		\$ 8,900
21315	2017	Environment Alignment	\$ 20,000	\$ 20,000	\$ -	0%		\$ 20,000
21319	2017	Load Forecasting Improvements for LDF	\$ 20,000	\$ 20,000	\$ 2,964	15%		\$ 17,036
21321	2017	EIM Enhancements Winter 2017	\$ 5,000	\$ 5,000	\$ 3,220	64%		\$ 1,780
24		Total Requirements & Other Projects	\$ 3,906,311	\$ 3,906,311	\$ 2,696,837		\$ 85,929	\$ 1,123,546
		Grand Total Active Projects	\$ 72,894,483.63	\$ 69,250,614.33	\$ 38,851,879.29		\$ 12,480,648.47	\$ 21,571,117.57