

California ISO Active Projects as of June 30, 2019

Capital ID #	Year Approved	Project Description	Approved Project Budget	Forecast	Project to Date 2019	\$ % Complt	Issued Contracts Unbilled	Total Remaining BALANCE
Capital Projects								
12215	2015	Logging System Replacement	\$ 300,841	\$ 300,841	\$ 38,003	13%		\$ 262,838
12224	2016	EMS	\$ 15,809,580	\$ 15,809,580	\$ 7,235,665	46%	7,658,652	\$ 915,263
12239	2018	ADS Replacement Project	\$ 775,509	\$ 775,509	\$ 267,809	35%	40,000	\$ 467,701
12241	2019	Model Synchronization & Activation	\$ 246,616	\$ 246,616	\$ 93,071	38%	135,872	\$ 17,673
12242	2019	RMR & CPM Enhancements	\$ 535,124	\$ 535,124	\$ 138,197	26%	39,539	\$ 357,389
12399	2017	Weather & Geospatial Data Sourcing	\$ 225,115	\$ 225,115	\$ 133,113	59%	92,002	\$ -
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	\$ 673,112	80%	89,723	\$ 83,610
12417/ 12646 /21317	2018/ 2019	RC Services , Hardware, Facilities, Non Capital	\$ 8,534,508	\$ 8,534,508	\$ 6,163,003	72%	1,276,643	\$ 1,094,862
12418	2018	Day Ahead Market Enhancements	\$ 258,500	\$ 258,500	\$ 184,623	71%	69,674	\$ 4,203
12422	2018/2019	Commitment Cost & Default Energy Bids (CCDEDE)	\$ 2,187,607	\$ 2,187,607	\$ 112,786	5%	53,460	\$ 2,021,361
12423	2018	EMNA Functional Enhancements	\$ 1,068,149	\$ 1,068,149	\$ 653,197	61%	371,073	\$ 43,880
12424	2018	Load Forecasting Imp. For LDF	\$ 213,456	\$ 213,456	\$ 1,150	1%		\$ 212,306
12427	2019	Operation System Improvements 2019	\$ 50,000	\$ 50,000	\$ -	0%	17,170	\$ 32,830
12428	2019	Technology System Improvement 2019	\$ 50,000	\$ 50,000	\$ -	0%		\$ 50,000
12430	2019	Energy Storage & Distribution Energy Resources Phase 3	\$ 578,332	\$ 578,332	\$ 33,234		76,974	\$ 468,124
12431	2019	LMPM Enhancements	\$ 464,584	\$ 464,584	\$ 68,243	15%	164,997	\$ 231,345
12432	2019	EIM Enhancements 2019	\$ 438,869	\$ 438,869	\$ 59,789	14%	265,881	\$ 113,199
12512	2016/ 2017/ 2018/2019	Facilities Replacement Reserve	\$ 4,941,574	\$ 4,941,574	\$ -	0%		\$ 4,941,574
12514	2018	New Vehicle Purchase	\$ 100,000	\$ 100,000	\$ 73,784	74%		\$ 26,216
12515	2018	RIMS Enhancement	\$ 168,683	\$ 169,156	\$ 13,798	8%		\$ 155,357
12516	2019	Campus Operations 2019	\$ 250,000	\$ 250,000	\$ 16,358	7%	52,534	\$ 181,108
12625	2013	IOOC Equipment Purchase	\$ 283,000	\$ 283,000	\$ 113,739	40%		\$ 169,261
12649/ 12650	2019	Hardware and Software Purchase 2019	\$ 3,000,000	\$ 3,000,000	\$ 856,386	29%	12,841	\$ 2,130,773
13269	2018	Hosted Advanced Network Applications	\$ 588,349	\$ 588,349	\$ 502,687	85%	21,982	\$ 63,680

25

Total Capital Projects

\$ 42,154,370

\$ 42,154,842

\$ 17,467,673

41%

10,642,618

\$ 14,044,551

Capital ID #	Year Approved	Project Description	Approved Project Budget	Forecast	Project to Date 2019	\$ % Complt	Issued Contracts Unbilled	Total Remaining BALANCE
Requirements and Other Projects								
21114	2019	Initialization Funding	\$ 91,246.00	\$ 91,246	\$ -	0%		\$ 91,246
21278	2016	EMS Capital Non Capital	\$ 46,950.24	\$ 46,950	\$ 46,950.24	100%	-	\$ (0)
21301	2016	MQS Redesign	\$ 35,000.00	\$ 35,000	\$ 33,825.00	97%		\$ 1,175
21336	2017	Operations Training Environment Improve. /EMS	\$ 32,000.00	\$ 32,000	\$ 15,149.00	47%		\$ 16,851
21337	2017	Extending Market Operation Functionality	\$ 6,000.00	\$ 6,000	\$ -	0%		\$ 6,000
21353	2018	FERC Order 844 Uplift Cost Allocation & Transparency	\$ 113,048.00	\$ 113,048	\$ 85,578.40	76%		\$ 27,470
21355	2018	ETCC Replacement Phase 2 PLC	\$ 21,000.00	\$ 21,000	\$ 15,485.00	74%		\$ 5,515
21356	2018	Full Dynamic Transfer	\$ 18,260.00	\$ 18,260	\$ 12,788.00	70%		\$ 5,472
21357	2018	Plan B for RCSI	\$ 330,764.06	\$ 330,764	\$ 214,020.77	65%	85,914.00	\$ 30,829
21360	2018	Excess Behind the Meter Production	\$ 2,280.00	\$ 2,280	\$ 924.00	41%		\$ 1,356
21361	2018	FERC Order 845	\$ 25,500.00	\$ 25,500	\$ 16,242.00	64%		\$ 9,258
21362	2018/ 2019	Settlement Replacement	\$ 46,600.00	\$ 46,600	\$ 45,025.33	97%		\$ 1,575
21363	2018/ 2019	FERC 841 - NGR Model	\$ 22,616.00	\$ 22,616	\$ 20,105.00	89%		\$ 2,511
21366	2018	DOT Tariff Clarification	\$ 18,080.00	\$ 18,080	\$ 896.00	5%		\$ 17,184
21367	2018	Intertie Deviation Settlements	\$ 15,440.00	\$ 15,440	\$ 14,676.95	95%		\$ 763
21368	2018	Interconnection Process Enhancements	\$ 10,400.00	\$ 10,400	\$ 7,050.20	68%		\$ 3,350
21371	2019	OSI Non Capital	\$ 1,200,000.00	\$ 1,200,000	\$ 142,924.41	12%	791,457.64	\$ 265,618
21372	2019	TSI 2019 Non Capital	\$ 600,000.00	\$ 600,000	\$ 148,484.78	25%	254,880.43	\$ 196,635
21373	2019	WebSDK & Application Stack Upgrade	\$ 307,431.54	\$ 307,432	\$ 17,913.00	6%	186,286.00	\$ 103,233
21377	2019	Transmission Access Charge Structure Enhancements	\$ 25,240.00	\$ 25,240	\$ 9,200.00	36%		\$ 16,040
21379	2019	MasterFile to SOA Phase 2	\$ 49,970.00	\$ 49,970	\$ 30,018.75	60%		\$ 19,951
21380	2019	VERS Forecasting Phase 2	\$ 7,000.00	\$ 7,000	\$ 3,950.00	56%		\$ 3,050
21381	2019	Software Security Implementation	\$ 119,543.00	\$ 119,543	\$ -	0%		\$ 119,543
21382	2019	OASIS Files in the Cloud	\$ 15,000.00	\$ 15,000	\$ -	0%		\$ 15,000
21384	2019	Real Time Market Neutrality Settlement	\$ 4,248.00	\$ 4,248	\$ 3,462.50	82%		\$ 786
25		Total Requirements & Other Projects	\$ 3,163,617	\$ 3,163,617	\$ 884,669	28%	1,318,538	\$ 960,409
50		Grand Total Active Projects	\$ 45,317,987	\$ 45,318,459	\$ 18,352,342	40%	11,961,156	\$ 15,004,961