

California Independent System Operator 2010 Cost Allocation Model Revenue Requirement and Rate Calculations	
<p>This spreadsheet takes the O&amp;M requirement requirement and functionalizes the debt service requirement, capital project funding, expense recovery budget and the Operating and Capital Reserve credit. It sums these, applies the functional association of Settlements, Metering and Client Relations costs and calculates rates applicable for 2010.</p> <p>The 2010 Rate Structure includes:                      80/20 revenue split between ETS-withdrawals (CC4505) and ETS-UE (CC4506)                      Recovery of excess SMCR revenue based on Functional Association of Charge Types                      No discount for Forward Scheduling (CC4511) or Inter SC trades (CC4512), but retains discount for Path 15 Facilitator Inter SC trades (CC4513)                      MU-Forward Energy (CC4537) based on cost of service                      ETS/MU UIE PIRP rate (CC 4546) to be simple sum of ETS-withdrawals (CC4505) and MU-deviations (CC4536) rates                      SMCR rate (CC4575) remains at \$1000                      Forward Energy bill determinant set to 20% of net of withdrawals and injections</p>	
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<b>Last updated:</b>	9/23/2009 15:44

California Independent System Operator 2010 Cost Allocation Model									
Detailed Revenue Requirement									
		Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total
<b>Operations and Maintenance</b>									
2111	CEO-General	\$ 1,263,510	\$ 490,766	\$ 14,326	\$ 139,235	\$ 432,713	\$ 114,870	\$ 793,210	\$ 3,248,631
2121	Market Monitoring	\$ 624,963	\$ -	\$ -	\$ 172,964	\$ 1,303,004	\$ 477,478	\$ 212,228	\$ 2,790,637
2122	Market Surveillance Committee (Non-labor cost)	\$ 75,313	\$ -	\$ -	\$ -	\$ 225,938	\$ -	\$ -	\$ 301,250
2211	Planning and Infrastructure Development	\$ 1,287,556	\$ 1,130,617	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,418,173
2221	Regional Transmission-North	\$ 1,990,725	\$ 1,461,259	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,451,984
2231	Regional Transmission-South	\$ 1,769,350	\$ 1,471,396	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,240,745
2241	Grid Assets	\$ 1,215,205	\$ 562,944	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,778,150
2242	Generator Interconnections	\$ 190,831	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190,831
2251	Network Applications	\$ -	\$ 1,188,757	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,188,757
2311	CFO General	\$ 317,048	\$ 122,308	\$ 3,601	\$ 33,673	\$ 90,895	\$ 43,473	\$ 238,247	\$ 849,245
2321	Accounting	\$ 996,993	\$ 387,247	\$ 11,304	\$ 109,866	\$ 341,440	\$ 90,640	\$ 625,896	\$ 2,563,386
2331	Financial Planning and Treasury	\$ 1,208,135	\$ 469,255	\$ 13,691	\$ 133,101	\$ 413,762	\$ 109,834	\$ 1,497,949	\$ 3,845,726
2341	Human Resources	\$ 2,503,210	\$ 1,021,124	\$ 28,982	\$ 184,617	\$ 616,290	\$ 367,703	\$ 1,405,432	\$ 6,127,358
2351	Facilities	\$ 3,306,179	\$ 1,348,676	\$ 38,279	\$ 243,838	\$ 813,981	\$ 485,653	\$ 1,856,261	\$ 8,092,867
2361	Procurement and Vendor Management	\$ 470,830	\$ 182,877	\$ 5,339	\$ 51,884	\$ 161,245	\$ 42,805	\$ 295,579	\$ 1,210,558
2371	Enterprise Risk Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2372	Internal Audit	\$ 265,424	\$ 103,095	\$ 3,010	\$ 29,249	\$ 90,900	\$ 24,131	\$ 166,629	\$ 682,437
2373	Information Security	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2374	Physical Security	\$ 793,936	\$ 323,867	\$ 9,192	\$ 58,555	\$ 195,467	\$ 116,623	\$ 445,757	\$ 1,943,398
2411	Information Technology-General	\$ 648,478	\$ 148,293	\$ 6,461	\$ 149,197	\$ 204,283	\$ 85,878	\$ 603,453	\$ 1,846,044
2412	Asset Management (Non-Labor costs only)	\$ 4,493,007	\$ 1,357,125	\$ 46,463	\$ 1,042,150	\$ 1,772,099	\$ 744,373	\$ 4,414,090	\$ 13,869,308
2441	Software Quality Assurance	\$ 328,344	\$ 41,967	\$ 3,055	\$ 138,250	\$ 89,599	\$ 132,167	\$ 661,809	\$ 1,395,192
2451	IT Support & Operations	\$ 4,201,152	\$ 1,129,748	\$ 43,747	\$ 1,095,021	\$ 1,408,690	\$ 264,059	\$ 3,132,401	\$ 11,274,819
2452	System & Database Administration	\$ 479,948	\$ 61,345	\$ 4,466	\$ 202,082	\$ 130,969	\$ 193,191	\$ 967,381	\$ 2,039,382
2453	Data Center & Operations	\$ 1,061,328	\$ 483,897	\$ 12,793	\$ 64,388	\$ 373,164	\$ 43,391	\$ 598,797	\$ 2,637,758
2454	Architecture & Systems Engineering	\$ 394,083	\$ 50,370	\$ 3,667	\$ 165,929	\$ 107,538	\$ 158,628	\$ 794,312	\$ 1,674,526
2462	EMS Information Technology	\$ 2,380,173	\$ 61,878	\$ 20,238	\$ -	\$ 33,722	\$ -	\$ 33,722	\$ 2,529,732
2463	Operations Information Technology	\$ 1,293,227	\$ 386,685	\$ 13,494	\$ 562,480	\$ 1,091,019	\$ -	\$ 767,198	\$ 4,114,103
2464	Corporate Systems	\$ 1,184,935	\$ 375,398	\$ 11,770	\$ 44,565	\$ 372,629	\$ 69,891	\$ 1,584,748	\$ 3,643,936
2511	Operations-General	\$ 1,198,551	\$ 426,020	\$ 19,427	\$ 34,241	\$ 391,470	\$ 53,797	\$ 452,970	\$ 2,576,476
2521	Grid Operations	\$ 386,971	\$ 136,025	\$ 8,036	\$ -	\$ 33,667	\$ -	\$ -	\$ 564,698
2522	Real-Time Operations	\$ 9,501,289	\$ 4,627,723	\$ 186,798	\$ -	\$ 1,263,650	\$ -	\$ -	\$ 15,579,459
2523	Scheduling	\$ 1,376,018	\$ 687,999	\$ 28,818	\$ -	\$ -	\$ -	\$ -	\$ 2,092,836
2524	Outage Management	\$ 2,211,743	\$ 8,636	\$ 98,075	\$ -	\$ 34,566	\$ -	\$ -	\$ 2,353,020
2531	Alhambra Grid Operations	\$ 1,254,392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,254,392
2541	Market Services	\$ 60,763	\$ -	\$ -	\$ 56,732	\$ 499,422	\$ 89,145	\$ 422,944	\$ 1,129,007
2542	Market Operations	\$ 305,617	\$ -	\$ -	\$ 777,955	\$ 3,334,316	\$ 1,222,408	\$ 305,617	\$ 5,945,913
2543	Billing and Settlements	\$ 434,865	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,026,057	\$ 3,460,922
2544	Settlement Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2545	Market Information	\$ -	\$ -	\$ -	\$ -	\$ 3,049,814	\$ -	\$ -	\$ 3,049,814
2551	Operations Support	\$ 213,733	\$ 108,533	\$ -	\$ -	\$ 9,749	\$ -	\$ 220,625	\$ 552,640
2552	Operations Data and Compliance	\$ 909,338	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,268,769	\$ 2,178,107
2553	Operations Procedures and Training	\$ 1,224,669	\$ 712,301	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,936,970
2554	Model & Contract Implementation	\$ 582,378	\$ -	\$ -	\$ -	\$ 143,743	\$ -	\$ 912,735	\$ 1,638,855
2555	Information Engineering & Analysis	\$ 129,274	\$ 681,762	\$ -	\$ -	\$ -	\$ -	\$ 658,643	\$ 1,469,679
2561	Reliability Coordination	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2611	General Counsel-General	\$ 2,936,101	\$ 1,140,425	\$ 33,291	\$ 323,549	\$ 1,005,524	\$ 266,932	\$ 1,843,235	\$ 7,549,057
2621	Asst General Counsel-Corporate	\$ 427,242	\$ 165,947	\$ 4,844	\$ 47,081	\$ 146,317	\$ 38,842	\$ 268,215	\$ 1,098,488
2631	Asst General Counsel-Regulatory	\$ 567,968	\$ 220,607	\$ 6,440	\$ 62,588	\$ 194,512	\$ 51,636	\$ 356,561	\$ 1,460,312
2641	Asst General Counsel Tariff & Compliance	\$ 453,985	\$ 176,334	\$ 5,148	\$ 50,028	\$ 155,476	\$ 41,273	\$ 285,004	\$ 1,167,248
2651	Asst Corporate Secretary	\$ 284,845	\$ 110,638	\$ 3,230	\$ 31,389	\$ 97,551	\$ 25,896	\$ 178,821	\$ 732,369
2711	Market Development-Program Mgmt-General	\$ 85,889	\$ 97,363	\$ 200	\$ 40,198	\$ 194,200	\$ 1,952	\$ 34,107	\$ 453,909
2721	Market and Product Development	\$ 59,005	\$ 118,002	\$ -	\$ 59,005	\$ 499,348	\$ -	\$ 59,005	\$ 794,364
2722	Tariff and Regulatory/Policy Development	\$ -	\$ 191,673	\$ -	\$ 383,345	\$ 1,476,473	\$ -	\$ -	\$ 2,051,491
2723	Infrastructure Policy & Contracts	\$ 586,609	\$ 574,675	\$ -	\$ -	\$ -	\$ -	\$ 130,352	\$ 1,291,636
2731	Program Office	\$ 925,249	\$ 359,380	\$ 10,491	\$ 101,960	\$ 316,869	\$ 84,118	\$ 580,856	\$ 2,378,924
2741	MRTU Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2811	External Affairs-General	\$ 124,878	\$ 48,503	\$ 1,415	\$ 13,761	\$ 42,766	\$ 11,358	\$ 726,427	\$ 969,108
2821	Communications & Public Relations	\$ 463,249	\$ 179,933	\$ 5,253	\$ 51,049	\$ 158,649	\$ 42,116	\$ 290,820	\$ 1,191,067
2822	Information Products & Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 853,410	\$ 853,410
2831	State/Federal Affairs	\$ 754,523	\$ 293,068	\$ 8,555	\$ 83,146	\$ 258,401	\$ 68,597	\$ 473,677	\$ 1,939,967
2841	Customer Services and Industry Affairs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,016,053	\$ 4,016,053
<b>Total Operations and Maintenance</b>		<b>\$ 62,203,029</b>	<b>\$ 25,426,441</b>	<b>\$ 713,898</b>	<b>\$ 6,737,071</b>	<b>\$ 23,575,827</b>	<b>\$ 5,562,857</b>	<b>\$ 38,460,002</b>	<b>\$ 162,679,125</b>
<b>Financing and Capital Project Budgets</b>									
	1998/2000 Bond Financed Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	2004 Bond Financed Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	2007 Bond Financed Capital	\$ 3,700,911	\$ 1,062,744	\$ 38,603	\$ 5,467,435	\$ 2,431,681	\$ 5,394,443	\$ 9,324,894	\$ 27,420,710
	2008 Bond Financed Capital	\$ 11,066,780	\$ 4,063,523	\$ 122,349	\$ 3,599,601	\$ 5,000,392	\$ 1,786,310	\$ 7,915,334	\$ 33,554,290

California Independent System Operator 2010 Cost Allocation Model									
Detailed Revenue Requirement									
	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total	
Cash Funded Capital	\$ 2,750,350	\$ 1,041,850	\$ 30,775	\$ 2,312,250	\$ 1,784,250	\$ 1,842,575	\$ 5,237,950	\$ 15,000,000	
<b>Total Financing and Capital Project Budgets</b>	<b>\$ 17,518,040</b>	<b>\$ 6,168,117</b>	<b>\$ 191,727</b>	<b>\$ 11,379,286</b>	<b>\$ 9,216,323</b>	<b>\$ 9,023,328</b>	<b>\$ 22,478,178</b>	<b>\$ 75,975,000</b>	
Revenue Requirement before application of credits (debits)	\$ 79,721,069	\$ 31,594,558	\$ 905,625	\$ 18,116,357	\$ 32,792,150	\$ 14,586,186	\$ 60,938,180	\$ 238,654,125	
	33.4%	13.2%	0.4%	7.6%	13.7%	6.1%	25.5%	100.0%	
<b>Credits</b>									
Expense Recovery Budget	\$ (4,522,349)	\$ (1,076,766)	\$ (14,230)	\$ (284,664)	\$ (515,267)	\$ (229,194)	\$ (1,457,529)	\$ (8,100,000)	
Operating and Capital Reserves	\$ (3,961,466)	\$ (8,817,744)	\$ 19,474	\$ 1,915,374	\$ (17,072,535)	\$ (7,509,589)	\$ (62,986)	\$ (35,489,471)	
<b>Total Credits</b>	<b>\$ (8,483,815)</b>	<b>\$ (9,894,510)</b>	<b>\$ 5,244</b>	<b>\$ 1,630,709</b>	<b>\$ (17,587,802)</b>	<b>\$ (7,738,783)</b>	<b>\$ (1,520,514)</b>	<b>\$ (43,589,471)</b>	
<b>Total Revenue Requirement</b>	<b>\$ 71,237,254</b>	<b>\$ 21,700,048</b>	<b>\$ 910,869</b>	<b>\$ 19,747,067</b>	<b>\$ 15,204,348</b>	<b>\$ 6,847,402</b>	<b>\$ 59,417,666</b>	<b>\$ 195,064,654</b>	
<b>Percent of Total</b>	<b>36.5%</b>	<b>11.1%</b>	<b>0.5%</b>	<b>10.1%</b>	<b>7.8%</b>	<b>3.5%</b>	<b>30.5%</b>	<b>100.0%</b>	
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Notes									
1. Translation of 2010 cost centers to the 2007/2008 cost centers shown here is developed in "Appendix B 2010 O&M Functionalization".									

California Independent System Operator 2010 Cost Allocation Model									
Summary of Revenue Requirement									
		Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total
<b>Operations and Maintenance</b>									
2100	CEO	\$ 4,466,995	\$ 1,511,890	\$ 43,309	\$ 496,816	\$ 2,577,945	\$ 960,051	\$ 2,410,870	\$ 12,467,876
2200	Planning and Infrastructure	\$ 6,453,668	\$ 4,626,216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,079,884
2300	CFO & Corporate Services	\$ 7,093,122	\$ 2,834,231	\$ 81,406	\$ 630,915	\$ 2,016,788	\$ 889,028	\$ 4,959,689	\$ 18,505,180
2400	IT	\$ 17,389,926	\$ 4,456,086	\$ 176,646	\$ 3,566,022	\$ 5,900,581	\$ 1,775,695	\$ 14,138,767	\$ 47,403,723
2500	Operations	\$ 19,789,600	\$ 8,577,755	\$ 341,153	\$ 868,929	\$ 8,760,397	\$ 1,365,350	\$ 7,268,360	\$ 46,971,545
2600	Legal	\$ 4,935,565	\$ 1,917,046	\$ 55,962	\$ 543,884	\$ 1,690,279	\$ 448,711	\$ 3,098,465	\$ 12,689,912
2700	Market & Product Development	\$ 731,503	\$ 981,712	\$ 200	\$ 482,548	\$ 2,170,021	\$ 1,952	\$ 223,463	\$ 4,591,399
2800	External Affairs	\$ 1,342,650	\$ 521,504	\$ 15,223	\$ 147,956	\$ 459,816	\$ 122,070	\$ 6,360,387	\$ 8,969,606
<b>Total Operations and Maintenance</b>		<b>\$ 62,203,029</b>	<b>\$ 25,426,441</b>	<b>\$ 713,898</b>	<b>\$ 6,737,071</b>	<b>\$ 23,575,827</b>	<b>\$ 5,562,857</b>	<b>\$ 38,460,002</b>	<b>\$ 162,679,125</b>
Percent Allocations		38.2%	15.6%	0.4%	4.1%	14.5%	3.4%	23.6%	100.0%
<b>Total Financing Budget - 2000 Debt</b>									
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Financing Budget - 2004 Debt</b>									
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Financing Budget - 2007 Debt</b>									
		\$ 3,700,911	\$ 1,062,744	\$ 38,603	\$ 5,467,435	\$ 2,431,681	\$ 5,394,443	\$ 9,324,894	\$ 27,420,710
<b>Total Financing Budget - 2008 Debt</b>									
		\$ 11,066,780	\$ 4,063,523	\$ 122,349	\$ 3,599,601	\$ 5,000,392	\$ 1,786,310	\$ 7,915,334	\$ 33,554,290
<b>Total Financing Budget - Cash funded</b>									
		\$ 2,750,350	\$ 1,041,850	\$ 30,775	\$ 2,312,250	\$ 1,784,250	\$ 1,842,575	\$ 5,237,950	\$ 15,000,000
Percent Allocations		23.1%	8.1%	0.3%	15.0%	12.1%	11.9%	29.6%	100.0%
<b>Total Expense Recovery Budget</b>									
		\$ (4,522,349)	\$ (1,076,766)	\$ (14,230)	\$ (284,664)	\$ (515,267)	\$ (229,194)	\$ (1,457,529)	\$ (8,100,000)
Percent Allocations		55.8%	13.3%	0.2%	3.5%	6.4%	2.8%	18.0%	100.0%
<b>Total Operating and Capital Reserves Credit</b>									
		\$ (3,961,466)	\$ (8,817,744)	\$ 19,474	\$ 1,915,374	\$ (17,072,535)	\$ (7,509,589)	\$ (62,986)	\$ (35,489,471)
Percent Allocations		11.2%	24.8%	-0.1%	-5.4%	48.1%	21.2%	0.2%	100.0%
<b>Total Revenue Requirement</b>									
		<b>\$ 71,237,254</b>	<b>\$ 21,700,048</b>	<b>\$ 910,869</b>	<b>\$ 19,747,067</b>	<b>\$ 15,204,348</b>	<b>\$ 6,847,402</b>	<b>\$ 59,417,666</b>	<b>\$ 195,064,654</b>
Percent Allocations		36.5%	11.1%	0.5%	10.1%	7.8%	3.5%	30.5%	100.0%
Notes:									
Divisions represent organizational structure as of late 2007, and this organizational structure is maintained for rate purposes, as allocation factors by cost center are specified in Appendix MRTU Tariff.									
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California Independent System Operator 2010 Cost Allocation Model								
Summary of Revenue Requirement and Rates (Assuming previous pre-MRTU rate structure and prior to GMC settlement adjustments)								
	Core Reliability	Energy Transmission - Net Energy	Energy Transmission - Deviations	Forward Scheduling	Market Usage	Settlements, Metering and Client Relations	Total	
Revenue Requirement (as filed)	\$ 71,237,254	\$ 18,088,733	\$ 4,522,183	\$ 19,747,067	\$ 22,051,751	\$ 59,417,666	\$ 195,064,654	
	36.5%	9.3%	2.3%	10.1%	11.3%	30.5%		
Functional Association of SMCR	\$ -	\$ 30,366,401	\$ 7,591,600	\$ 403,428	\$ 19,213,236	\$ (57,574,666)	\$ -	
Percent of SMCR	0.0%	52.7%	13.2%	0.7%	33.4%			
Adjusted Revenue Requirement	\$ 71,237,254	\$ 48,455,134	\$ 12,113,784	\$ 20,150,495	\$ 41,264,986	\$ 1,843,000	\$ 195,064,654	
	36.5%	24.8%	6.2%	10.3%	21.2%	0.9%	100.0%	
Billing Determinants	8,541,180	238,711,481	11,102,666	9,891,391	164,990,551	1,843		
Units	MW-months	MWh	MWh	Schedules	MWh	customer-months		
Rate	\$ 8.340	\$ 0.203	\$ 1.091	\$ 2.037	\$ 0.250	\$ 1,000.00		
Notes								
1. The as-filed October 2003 rate structure and rates form the basis for the rate structure and rates under the subsequent GMC Settlement.								
This information is used in the subsequent calculation of MRTU rates under the next worksheet "MRTU Rate"								
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California Independent System Operator 2010 Cost Allocation Model											
Development of 2010 GMC Rates (with application of Settlement related cost reallocations)											
	CRS - Peak	CRS - Off Peak	CRS Export Rate	ETS-NE	ETS-UE	CRS/ETS TOR	FS	MU	MU-FE	SMCR	Total
Revenue Requirement	\$ 71,237,254	\$ -	\$ -	\$ 17,177,864	\$ 4,522,183	\$ 910,869	\$ 19,747,067	\$ 15,204,348	\$ 6,847,402	\$ 59,417,666	\$ 195,064,654
Reassigned SMCR	\$ -	\$ -	\$ -	\$ 30,249,367	\$ 7,591,600	\$ 117,035	\$ 403,428	\$ 13,247,235	\$ 5,966,001	\$ (57,574,666)	\$ -
Adjusted Revenue Requirement	\$ 71,237,254	\$ -	\$ -	\$ 47,427,231	\$ 12,113,784	\$ 1,027,903	\$ 20,150,495	\$ 28,451,583	\$ 12,813,403	\$ 1,843,000	\$ 195,064,654
Reassignment of revenues per 2004 GMC Settlement											
CRS discount (35%)	\$ (24,933,039)	\$ -	\$ -	\$ 24,933,039	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FS discount (20%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CRS split to off peak and export	\$ (10,255,302)	\$ 1,032,223	\$ 9,223,079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
FS split to inter SC trade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Settlement reassignments	\$ (35,188,341)	\$ 1,032,223	\$ 9,223,079	\$ 24,933,039	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (0)
Revenue Requirement	\$ 36,048,913	\$ 1,032,223	\$ 9,223,079	\$ 72,360,270	\$ 12,113,784	\$ 1,027,903	\$ 20,150,495	\$ 28,451,583	\$ 12,813,403	\$ 1,843,000	\$ 195,064,654
Billing units	449,605	15,076	8,076,498	238,711,481	11,102,666	4,074,962	9,891,391	75,926,956	89,063,595	1,843	
	MW-months	MW-months	MWh	MWh	MWh	MWh	Schedules	MWh		Customer months	
Estimated 2010 Rates	\$ 80.1791	\$ 68.4673	\$ 1.1420	\$ 0.3031	\$ 1.0911	\$ 0.2522	\$ 2.0372	\$ 0.3747	\$ 0.1439	\$ 1,000	

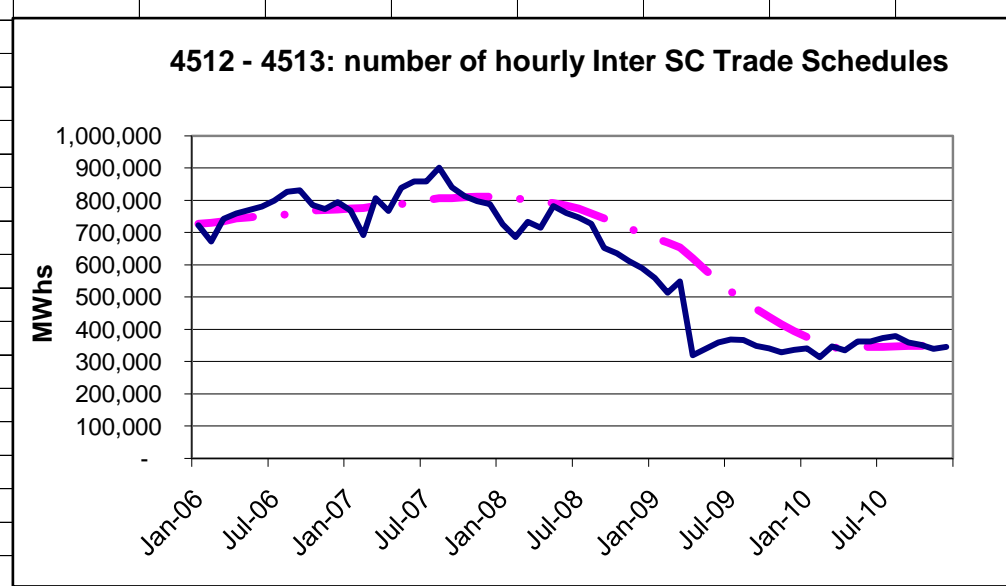
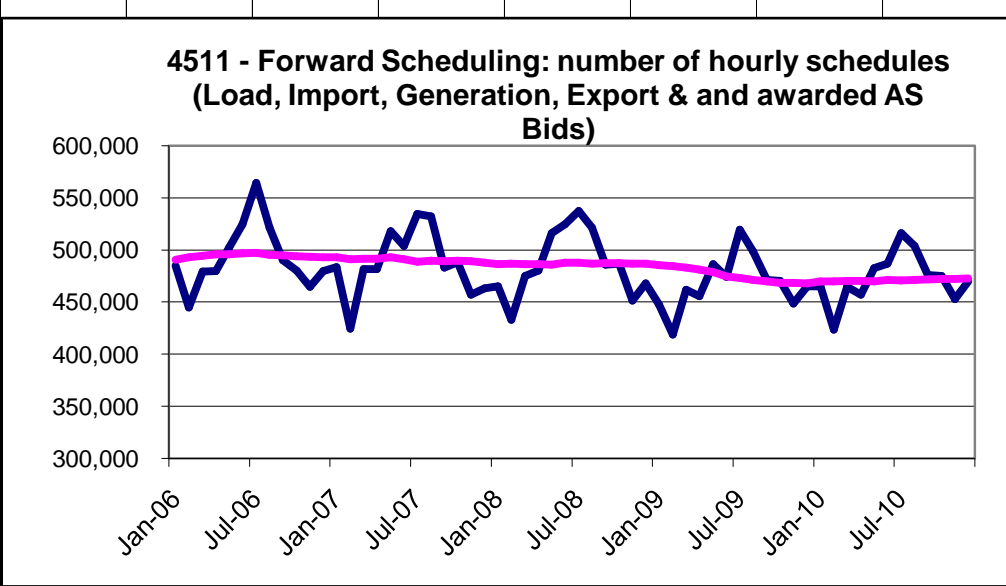
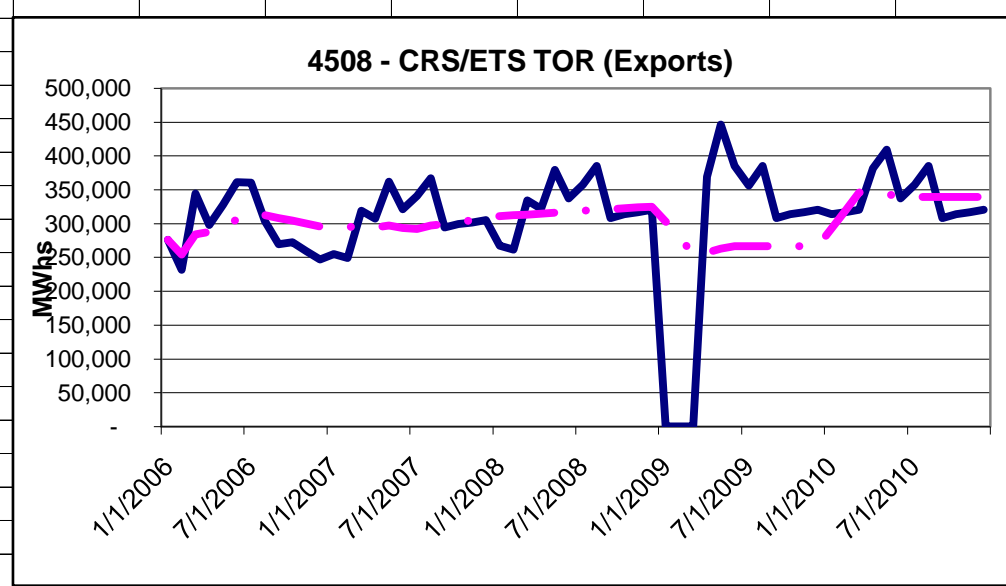
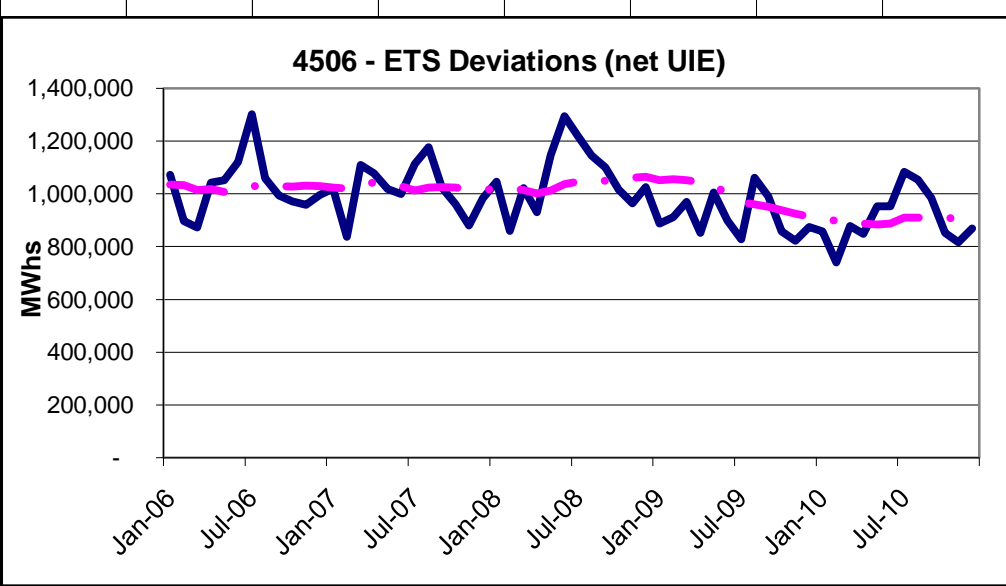
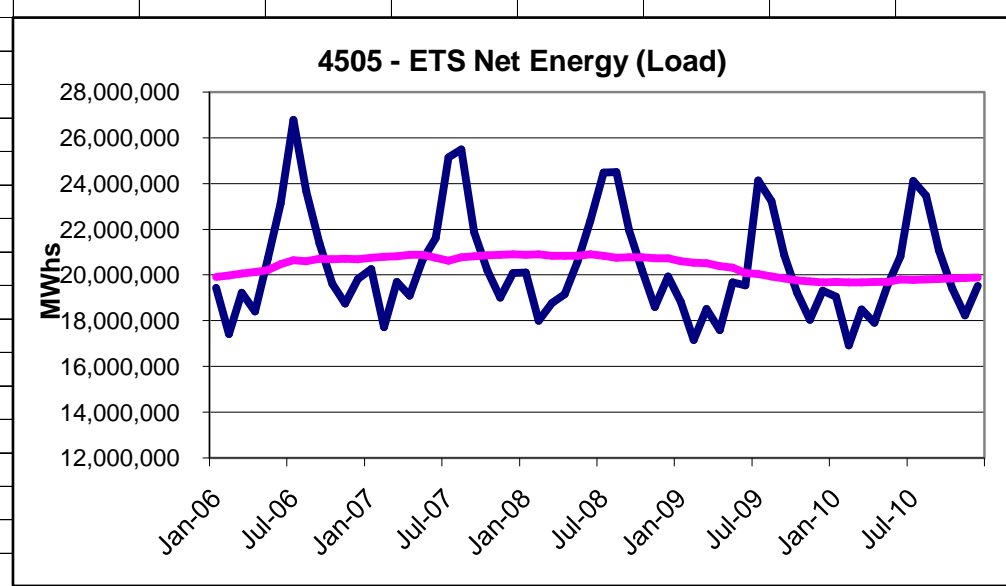
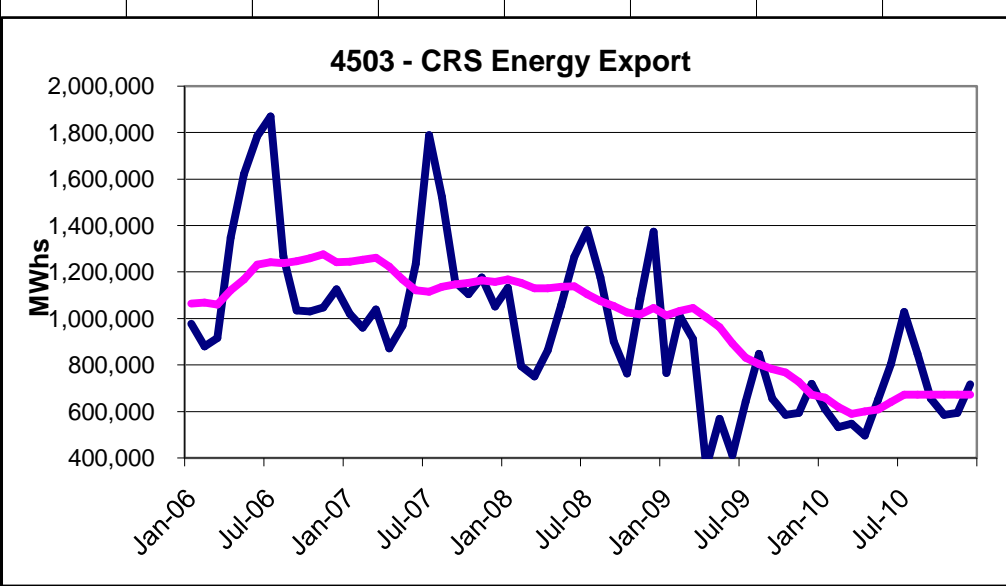
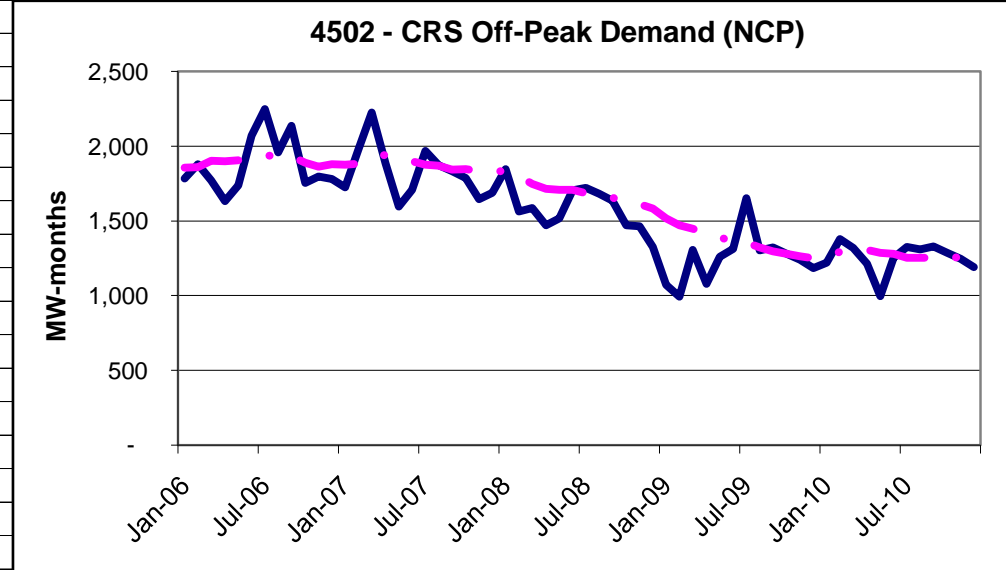
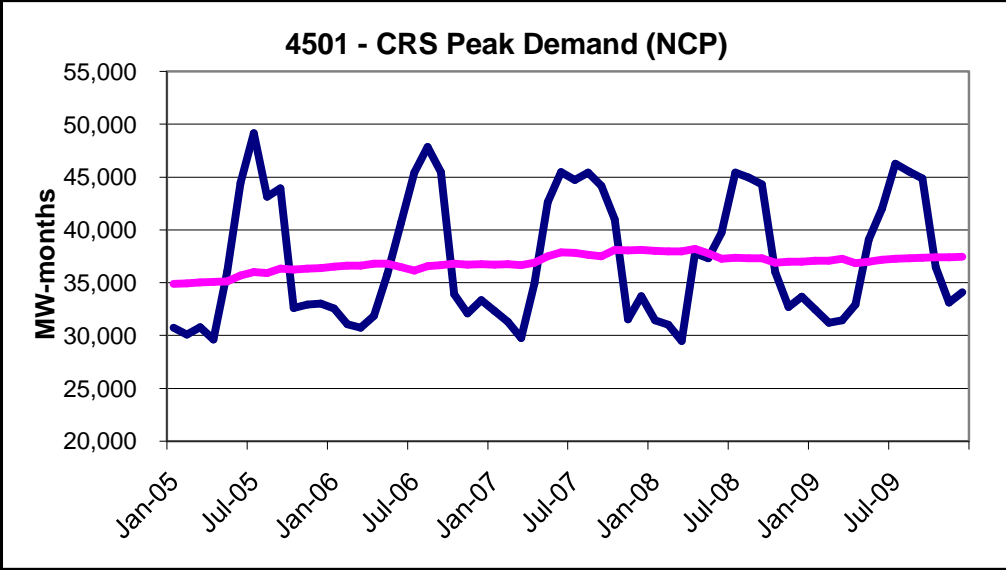


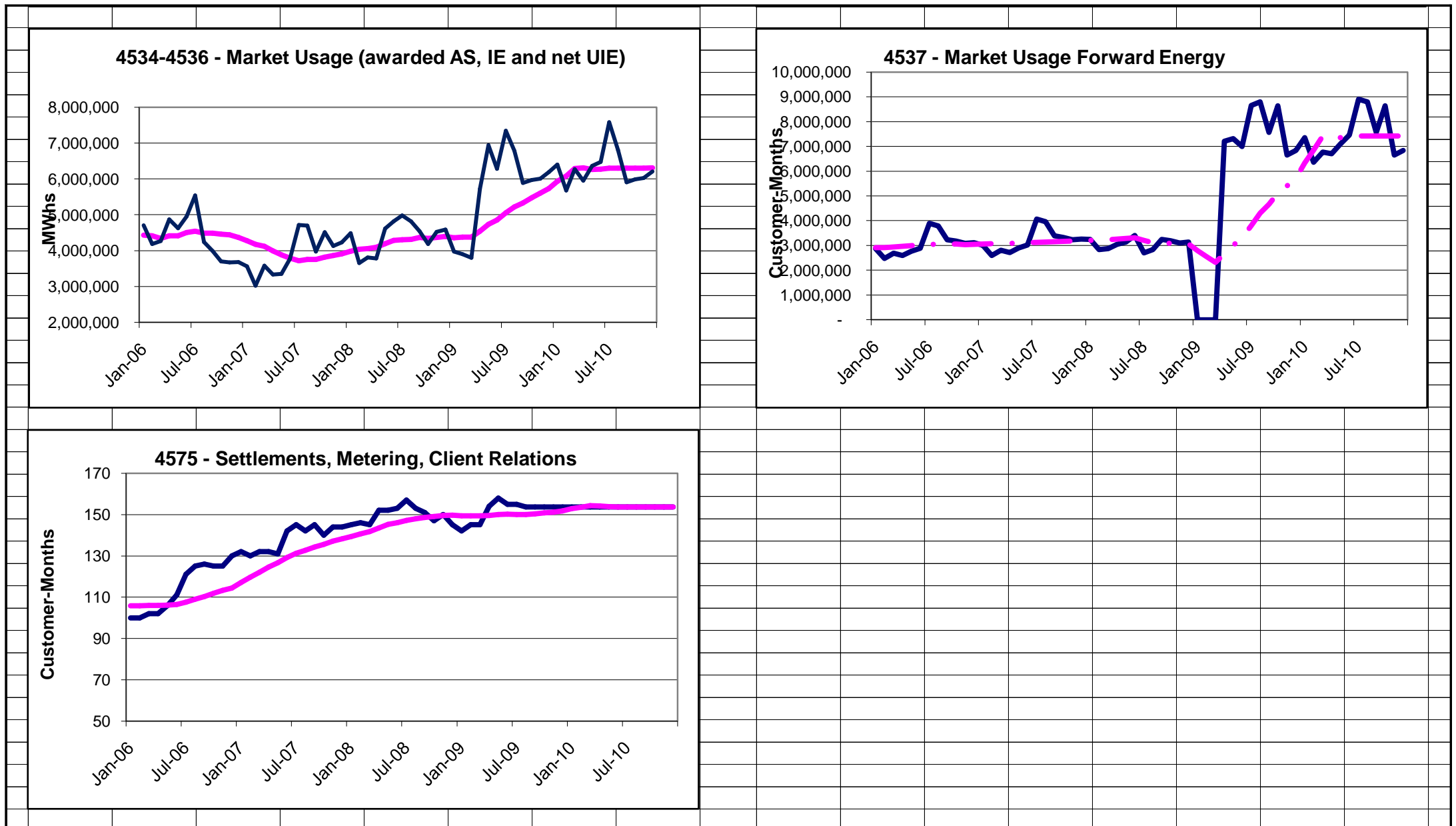
California Independent System Operator 2010 Cost Allocation Model						
Development of 2010 GMC Rates (with application of Settlement related cost reallocations)						
Development of Peak/Off Peak CRS Rates						
		CRS Peak		CRS off peak		
		Load	Export	Load	Export	
NCP	602,923	454,828	93,086	19,734	35,276	
Escalation	-	-	-	-	-	
Subtotal	602,923	454,828	93,086	19,734	35,276	
Additional Discounts @65%	-	0	-	0	-	Application of targeted CRS discount
Escalated Total	602,923	454,828	93,086	19,734	35,276	
Revenue collected	\$ 46,304,215	\$ 34,930,535	\$ 7,148,947	\$ 1,515,524	\$ 2,709,210	
Off Peak discount @	32%	\$ 1,118,378	\$ 228,889	\$ (483,301)	\$ (863,967)	Application of off peak CRS discount
Revenue after off peak discount	\$ 46,304,215	\$ 36,048,913	\$ 7,377,836	\$ 1,032,223	\$ 1,845,243	
Remaining revenue req	\$ 46,304,215	\$ 36,048,913	\$ 7,377,836	\$ 1,032,223	\$ 1,845,243	
Remaining NCP		454,828	93,086	19,734	35,276	
CRS NCP load rate		\$ 79.258		\$ 52.308		
CRS off peak discount				34.00%		
Development of CRS Volumetric Export Rate						
	Total (MWh)	Load (MWh)	Export (MWh)			
Billing Units	248,648,095	236,570,368	12,077,727			
Escalation	-	-	-			
Subtotal	248,648,095	236,570,368	12,077,727			
Less Discounted volume @65%	-	-	-			Application of targeted ETS discount
Escalated Total	248,648,095	236,570,368	12,077,727			
Export revenue (from above)			\$ 9,223,079	CRS demand revenue requirement, sum of peak and off peak CRS		
Remaining revenue req			\$ 9,223,079			
CRS volumetric export rate before revenue adjustment			\$ 0.7636			
<b>Notes:</b>						
1. Calculations in highlight above are show development of rates agreed to under GMC Settlement.						
2. Adjustments are made to the billing determinant forecast to implement the discounts or accommodations agreed to in the Settlement						

**Worksheets on Billing Determinants, Revenue Forecast,  
Financing Budget, Capital Project Funding, Expense  
Recovery Budget, Operating and Capital Reserve and  
Revenue Requirement follow**



**California Independent System Operator  
2010 Cost Allocation Model  
Billing Determinant Charts**





California Independent System Operator  
2010 Cost Allocation Model  
Billing Determinant Forecast

Charge Code	4501	4502	4503	4505	4506	4508	4511	4512	4513	4534	4535	4536	4537	4546	4575
Name	CRS Demand Peak	CRS Demand Off-Peak	CRS Energy Export	ETS - NE	ETS - UE	CRS/ETS TOR Energy	Forward Scheduling	Forward Scheduling ISC Trades	Forward Energy PGAB ISC Trades	Market Usage AS	Market Usage Instructed Energy	Market Usage Net Uninstructed Deviations	MU Forward Energy	ETS MU PIRP Deviations	SMCR
Billing Unit	Mwh Peak NCP	MWh Off Peak NCP	MWh Export NCP	MWh Metered Demand	MWh Net UE	MWh TOR	# of Schedules (no inter sc trades)	# of Inter SC Schedules	# of PGAB ISC Trades	MWh AS	Mwh IE	Mwh UIE	Mwh FE	Mwh PIRP	# of SC's
Jan-02	30,931	429	1,085,519	18,731,165	1,266,091		556,535	389,149	4,021	2,107,658					67
Feb-02	28,431	2,100	1,074,148	16,663,862	908,643		516,542	393,303	4,036	1,921,642					70
Mar-02	27,985	1,683	1,041,903	18,292,650	963,418		554,411	456,430	4,547	2,211,198					71
Apr-02	28,717	1,803	845,986	17,688,468	1,144,779		547,690	436,142	5,110	1,973,320					69
May-02	33,554	1,777	1,050,390	18,946,907	1,300,906		573,674	476,787	5,565	2,028,422					70
Jun-02	36,125	1,796	1,785,151	20,497,600	1,511,511		583,642	460,206	6,211	2,021,222					72
Jul-02	39,706	1,858	2,322,675	23,116,528	1,656,841		616,133	498,305	5,458	1,971,913					75
Aug-02	37,358	2,092	1,893,621	22,308,108	1,604,789		601,226	511,145	4,541	1,749,304					73
Sep-02	39,316	1,888	1,359,705	20,950,266	1,664,232		593,438	483,347	5,028	1,548,881					72
Oct-02	32,826	2,110	1,080,714	18,998,001	1,296,238		589,206	499,949	4,656	1,343,509					69
Nov-02	31,836	1,987	1,177,896	18,273,931	1,646,151		569,343	461,136	4,711	1,340,008					78
Dec-02	31,020	1,879	1,402,566	19,345,546	1,583,960		581,859	456,366	4,928	1,503,773					86
Jan-03	28,273	2,428	1,305,064	18,539,259	1,217,053		582,136	449,196	5,171	1,495,246					80
Feb-03	27,990	2,110	1,067,824	16,298,954	1,336,049		536,747	414,834	5,011	1,296,307					79
Mar-03	29,082	2,736	1,072,488	18,620,731	1,709,652		597,365	473,755	5,375	1,549,933					80
Apr-03	28,399	2,090	822,969	17,492,949	1,335,996		568,112	448,759	6,090	1,611,903					91
May-03	36,927	1,847	1,288,649	19,138,327	1,626,439		575,173	481,917	7,015	1,740,090					91
Jun-03	37,466	1,953	1,723,745	20,138,382	1,428,150		571,128	477,264	6,592	2,006,642					81
Jul-03	41,630	1,841	2,126,342	24,040,877	1,777,830		608,053	509,384	4,993	2,455,459					76
Aug-03	42,468	1,935	1,806,159	23,687,585	1,744,328		607,681	505,821	3,675	2,376,974					78
Sep-03	42,306	1,922	1,581,963	21,769,964	1,506,659		585,768	470,133	3,527	2,192,955					79
Oct-03	35,182	1,766	1,383,219	20,146,450	1,430,294		595,642	480,132	3,654	2,122,005					77
Nov-03	28,788	1,870	1,164,991	18,115,115	1,167,014		573,244	448,113	3,881	1,759,328					76
Dec-03	31,177	2,049	1,483,807	19,733,855	1,342,013		601,928	497,383	4,194	1,916,294					76
Jan-04	29,542	2,192	839,854	18,845,248	1,168,900		471,787	787,441	8,995	1,843,654					82
Feb-04	29,254	2,580	878,693	17,457,874	1,089,084		446,496	706,749	8,386	1,923,569					80
Mar-04	31,402	2,188	829,831	18,696,846	1,314,536		484,466	738,672	8,945	1,982,430					80
Apr-04	36,752	1,794	674,389	17,893,781	1,295,945		460,542	695,186	9,333	1,861,842					81
May-04	40,090	19	883,921	19,651,973	1,470,898		480,996	759,206	9,584	2,064,736					83
Jun-04	37,425	1,658	950,942	20,262,774	1,479,858		484,720	762,219	9,178	2,139,990					88
Jul-04	42,382	1,831	1,279,469	23,132,025	1,746,039		503,823	796,852	9,693	2,554,762					89
Aug-04	43,067	1,883	1,358,381	23,222,557	1,844,417		507,590	798,566	10,023	2,545,094					93
Sep-04	44,332	1,909	1,004,494	21,732,889	1,863,055		486,394	772,714	9,233	2,290,338					92
Oct-04	33,625	1,958	877,377	19,295,866	1,205,115		480,536	759,901	8,815	1,990,376					90
Nov-04	31,816	1,825	711,944	18,349,615	1,013,323		462,698	696,182	8,416	1,824,683					89
Dec-04	32,390	1,807	761,715	19,764,366	1,050,815		492,938	713,976	9,168	1,850,737					90
Jan-05	31,802	2,026	1,086,175	19,498,707	1,116,543		495,415	703,746	6,383	1,970,740	1,579,199	1,376,795	2,883,172		99
Feb-05	29,577	1,841	826,970	16,687,514	903,310		420,270	620,704	5,180	1,750,668	1,590,403	1,087,749	2,445,372		101
Mar-05	29,562	1,261	1,019,347	18,272,752	1,104,550		463,058	693,123	4,730	1,979,959	1,839,853	1,228,882	2,492,714		100
Apr-05	29,102	1,698	609,698	17,621,123	1,007,241		458,999	642,337	4,056	1,740,079	1,072,746	1,215,747	2,272,450		102
May-05	35,266	1,660	1,058,825	19,546,667	1,173,252		504,013	720,895	6,202	1,889,321	1,393,594	1,338,456	2,345,677		104
Jun-05	38,156	1,901	1,034,697	19,990,570	958,961		512,223	727,200	6,268	1,896,486	1,013,320	1,020,074	2,312,079		106
Jul-05	45,247	2,053	1,739,204	24,814,557	1,178,444		561,533	772,036	5,907	2,221,849	1,563,558	1,261,150	3,802,757		109
Aug-05	43,843	1,915	1,308,267	24,042,880	1,150,493		541,162	785,559	5,479	2,143,120	1,547,331	1,253,555	3,901,073		107
Sep-05	39,369	2,216	928,939	20,307,530	930,203		496,621	744,621	5,665	1,898,823	1,068,690	1,027,370	3,128,436		110
Oct-05	33,722	2,264	878,103	19,657,940	989,183		493,830	723,282	6,613	1,766,836	1,133,132	1,092,710	3,121,343		106
Nov-05	31,627	2,118	854,455	18,521,370	904,600		468,069	736,899	6,175	1,742,189	1,214,214	1,008,592	3,273,951		109
Dec-05	32,481	1,601	1,538,709	20,150,445	1,037,073		486,784	776,204	8,647	1,889,998	1,503,176	1,109,657	3,025,044		116
Jan-06	30,762	1,784	977,907	19,439,075	1,073,126	275,728	485,218	713,964	8,928	2,033,219	1,520,141	1,153,532	2,870,001		100
Feb-06	30,121	1,881	881,121	17,427,427	896,407	231,156	445,103	664,538	8,988	1,769,900	1,460,615	955,537	2,475,976		100
Mar-06	30,816	1,773	917,205	19,230,562	873,745	343,935	479,614	734,182	9,400	1,802,012	1,543,451	923,453	2,682,817		102
Apr-06	29,619	1,634	1,349,160	18,405,443	1,043,390	297,421	480,070	752,160	8,004	1,627,528	2,152,964	1,092,596	2,590,316		102
May-06	36,060	1,739	1,622,380	20,710,541	1,052,763	327,218	502,764	761,201	9,447	2,006,698	1,535,548	1,089,555	2,767,451		106
Jun-06	44,472	2,072	1,785,486	23,128,774	1,121,986	360,752	524,938	771,768	9,562	1,980,298	1,774,618	1,205,113	2,881,373		111
Jul-06	49,171	2,251	1,870,490	26,788,497	1,302,000	360,402	564,553	791,256	8,391	2,207,223	1,962,814	1,373,885	3,887,033		121
Aug-06	43,160	1,960	1,267,917	23,669,216	1,058,907	303,326	521,398	819,786	7,869	1,971,742	1,194,555	1,076,758	3,785,246		125

Sep-06	43,963	2,139	1,035,530	21,383,115	995,166	268,807	490,424	827,024	4,437	1,945,751	1,030,854	1,021,791	3,231,396	126
Oct-06	32,631	1,755	1,030,769	19,610,185	971,943	272,262	480,418	781,003	4,756	1,818,451	930,406	958,422	3,171,535	125
Nov-06	32,958	1,800	1,048,345	18,768,972	959,474	259,093	465,055	769,386	4,575	1,585,579	1,116,574	969,693	3,082,721	125
Dec-06	33,040	1,783	1,126,995	19,841,086	996,272	246,626	480,075	792,782	3,059	1,528,962	1,118,651	1,036,601	3,116,207	130
Jan-07	32,590	1,727	1,020,871	20,263,900	1,020,666	254,742	483,588	764,528	4,120	1,561,679	977,944	1,026,917	3,005,593	132
Feb-07	31,090	1,980	961,094	17,732,252	836,940	249,022	424,747	689,878	3,301	1,386,380	810,514	828,316	2,592,952	130
Mar-07	30,775	2,228	1,040,516	19,697,325	1,110,212	318,269	481,665	803,038	3,799	1,418,341	1,063,433	1,104,569	2,809,566	132
Apr-07	31,887	1,888	871,457	19,111,250	1,078,379	306,879	481,951	764,832	3,480	1,369,477	924,422	1,042,168	2,712,694	132
May-07	35,797	1,596	968,754	20,644,796	1,019,155	361,614	518,384	835,968	3,567	1,438,237	887,883	1,025,668	2,898,199	131
Jun-07	40,703	1,710	1,236,435	21,624,752	1,000,396	321,106	504,002	855,908	3,643	1,732,372	1,036,613	1,004,500	3,017,502	142
Jul-07	45,462	1,969	1,790,212	25,156,830	1,114,123	340,658	534,730	855,678	3,675	2,094,921	1,474,947	1,153,476	4,070,675	145
Aug-07	47,865	1,875	1,526,053	25,497,393	1,176,120	366,923	532,405	898,422	3,708	2,244,924	1,209,583	1,247,062	3,964,078	142
Sep-07	45,502	1,834	1,158,789	21,873,338	1,023,418	293,502	483,263	836,666	4,062	1,940,350	986,192	1,050,688	3,384,062	145
Oct-07	33,916	1,788	1,105,478	20,202,883	960,280	299,225	488,483	809,354	4,392	1,767,654	1,719,674	1,029,010	3,321,373	140
Nov-07	32,096	1,648	1,178,418	19,018,843	881,139	301,471	457,387	793,820	3,937	1,897,102	1,345,636	894,821	3,228,363	144
Dec-07	33,344	1,691	1,052,606	20,088,832	982,344	305,003	463,644	786,814	2,654	1,967,848	1,278,304	986,797	3,263,431	144
Jan-08	32,352	1,848	1,133,105	20,123,790	1,047,279	267,073	465,340	723,016	3,818	2,065,395	1,347,485	1,079,885	3,247,265	145
Feb-08	31,337	1,563	795,364	18,009,590	860,533	261,076	433,243	682,922	3,493	1,769,101	993,284	893,468	2,836,372	146
Mar-08	29,789	1,587	752,244	18,771,583	1,023,139	333,675	475,303	730,308	3,458	1,852,452	966,586	994,634	2,867,404	145
Apr-08	34,947	1,471	863,639	19,169,393	930,502	321,734	480,209	712,308	3,343	1,902,305	922,763	957,049	3,049,267	152
May-08	42,633	1,517	1,057,679	20,594,603	1,147,585	379,119	516,518	780,572	2,330	1,895,511	1,547,423	1,172,200	3,144,145	152
Jun-08	45,507	1,705	1,266,262	22,375,596	1,294,814	336,650	524,759	759,166	1,872	1,933,788	1,554,504	1,335,701	3,396,243	153
Jul-08	44,745	1,723	1,380,297	24,497,872	1,220,336	357,148	537,393	746,654	1,834	2,247,061	1,483,692	1,258,657	2,698,027	157
Aug-08	45,455	1,683	1,177,099	24,506,139	1,145,277	384,685	521,366	725,473	2,096	2,195,009	1,449,028	1,174,138	2,834,363	153
Sep-08	44,163	1,638	901,985	21,937,213	1,101,238	307,710	485,874	650,900	1,954	2,057,920	1,365,487	1,127,013	3,249,331	151
Oct-08	41,005	1,470	763,730	20,229,707	1,016,049	313,709	486,986	634,521	2,171	1,922,259	1,198,801	1,072,093	3,189,137	147
Nov-08	31,531	1,467	1,085,141	18,606,432	965,285	316,065	451,660	609,397	3,216	1,794,483	1,703,770	1,026,227	3,099,830	150
Dec-08	33,724	1,325	1,374,376	19,938,544	1,025,071	319,767	468,245	585,674	4,109	2,040,567	1,454,702	1,092,280	3,133,503	145
Jan-09	31,472	1,073	766,135	18,818,738	888,753	-	447,788	556,428	3,575	1,823,400	1,159,261	994,950	-	142
Feb-09	31,048	993	1,011,552	17,168,113	911,478	-	418,932	510,205	3,552	1,742,698	1,210,712	947,250	-	145
Mar-09	29,479	1,306	912,193	18,518,139	969,179	-	462,064	546,037	2,502	1,845,489	998,175	963,083	-	145
Apr-09	37,799	1,078	360,396	17,588,617	852,929	368,713	455,665	320,248	-	2,191,182	2,685,327	852,929	7,206,864	154
May-09	37,343	1,261	568,720	19,689,171	1,005,403	445,881	486,407	340,660	-	2,486,375	3,454,509	1,005,403	7,312,557	158
Jun-09	39,762	1,312	412,212	19,558,078	899,456	385,027	474,133	359,648	-	2,427,466	2,959,807	899,456	6,984,896	155
Jul-09	45,462	1,652	643,704	24,148,552	827,526	355,967	519,764	369,426	-	2,874,031	3,645,312	827,526	8,644,868	155
Aug-09	44,975	1,303	849,830	23,233,867	1,060,713	384,685	498,937	368,050	-	2,782,148	3,086,311	918,563	8,791,701	154
Sep-09	44,342	1,323	655,317	20,870,650	990,864	307,710	471,465	349,127	-	2,535,264	2,543,814	817,138	7,553,127	154
Oct-09	36,030	1,281	585,274	19,226,477	858,348	313,709	470,595	342,031	-	2,326,244	2,847,154	802,711	8,631,628	154
Nov-09	32,729	1,242	593,643	18,045,290	822,121	316,065	448,772	329,394	-	2,182,311	3,074,709	753,820	6,643,341	154
Dec-09	33,696	1,186	718,566	19,326,915	874,540	319,767	465,436	336,272	-	2,320,231	3,060,215	816,842	6,826,448	154
Jan-10	32,471	1,220	612,250	19,051,739	857,600	313,709	465,414	340,905	-	2,390,902	3,128,598	886,926	7,345,573	154
Feb-10	31,202	1,379	533,071	16,918,751	740,643	316,065	423,754	313,962	-	2,160,539	2,799,892	720,131	6,358,702	154
Mar-10	31,444	1,320	548,550	18,508,958	878,156	319,767	464,870	348,314	-	2,339,480	3,121,997	813,176	6,762,498	154
Apr-10	32,947	1,214	496,253	17,918,162	849,639	380,906	457,204	334,937	-	2,209,698	2,925,664	823,891	6,703,027	154
May-10	39,089	996	651,878	19,585,233	953,159	408,782	482,703	362,386	-	2,388,237	3,093,809	884,774	7,091,091	154
Jun-10	42,021	1,255	804,118	20,820,918	953,666	336,650	487,158	362,174	-	2,506,668	3,102,234	873,205	7,458,894	154
Jul-10	46,299	1,327	1,028,187	24,130,572	1,083,768	357,148	516,188	373,944	-	2,880,067	3,740,065	965,353	8,896,786	154
Aug-10	45,529	1,309	849,720	23,481,644	1,054,355	384,685	503,910	379,557	-	2,783,714	3,114,600	908,804	8,791,879	154
Sep-10	44,888	1,329	655,232	21,093,225	984,924	307,710	476,163	360,043	-	2,536,691	2,567,130	808,456	7,553,281	154
Oct-10	36,473	1,286	585,199	19,431,517	853,203	313,709	475,285	352,725	-	2,327,553	2,873,250	794,183	8,631,803	154
Nov-10	33,132	1,248	593,566	18,237,734	817,193	316,065	453,244	339,693	-	2,183,539	3,102,891	745,811	6,643,476	154
Dec-10	34,111	1,191	718,473	19,533,027	869,298	319,767	470,075	346,786	-	2,321,536	3,088,264	808,164	6,826,587	154



California Independent System Operator 2010 Cost Allocation Model 2010 Revenue Requirement Forecast by Month												
	Core Reliability Services Peak	Core Reliability Services Off Peak	Core Reliability Services Export	Energy Transmission Services: Energy Control Area Metered Load	Energy Transmission Services: Deviations Monthly Net UE	CRS/ETS TOR	Forward Scheduling Total Sch Count	Inter SC Trades Total Sch Count	Market Usage MWh	Market Usage Forward Energy MWh	Settlements, Metering & Client Relations Cust Mo	
Jan-10	32,471	1,220	612,250	19,051,739	874,855	313,709	465,414	340,905	6,613,488	7,345,573	154	
Feb-10	31,202	1,379	533,071	16,918,751	757,899	316,065	423,754	313,962	5,680,562	6,358,702	154	
Mar-10	31,444	1,320	548,550	18,508,958	895,412	319,767	464,870	348,314	6,274,653	6,762,498	154	
Apr-10	32,947	1,214	496,253	17,918,162	866,894	380,906	457,204	334,937	5,959,253	6,703,027	154	
May-10	39,089	996	651,878	19,585,233	970,414	408,782	482,703	362,386	6,366,821	7,091,091	154	
Jun-10	42,021	1,255	804,118	20,820,918	970,921	336,650	487,158	362,174	6,482,107	7,458,894	154	
Jul-10	46,299	1,327	1,028,187	24,130,572	1,101,024	357,148	516,188	373,944	7,585,485	8,896,786	154	
Aug-10	45,529	1,309	849,720	23,481,644	1,071,610	384,685	503,910	379,557	6,807,118	8,791,879	154	
Sep-10	44,888	1,329	655,232	21,093,225	1,002,179	307,710	476,163	360,043	5,912,277	7,553,281	154	
Oct-10	36,473	1,286	585,199	19,431,517	870,458	313,709	475,285	352,725	5,994,986	8,631,803	154	
Nov-10	33,132	1,248	593,566	18,237,734	834,448	316,065	453,244	339,693	6,032,241	6,643,476	154	
Dec-10	34,111	1,191	718,473	19,533,027	886,553	319,767	470,075	346,786	6,217,965	6,826,587	154	
<b>Total</b>	<b>449,605</b>	<b>15,076</b>	<b>8,076,498</b>	<b>238,711,481</b>	<b>11,102,666</b>	<b>4,074,962</b>	<b>5,675,966</b>	<b>4,215,425</b>	<b>75,926,956</b>	<b>89,063,595</b>	<b>1,843</b>	
Forecasted Monthly Revenue												
	Core Reliability Services Peak	Core Reliability Services Off Peak	Core Reliability Services Export	Energy Transmission Services: Energy	Energy Transmission Services: Deviations	CRS/ETS TOR	Forward Scheduling	Inter SC Trades	Market Usage	Market Usage Forward Energy	Settlements, Metering & Client Relations	Total
Jan-10	\$ 2,603,486	\$ 83,539	\$ 699,168	\$ 5,775,127	\$ 954,528	\$ 79,133	\$ 948,129	\$ 694,483	\$ 2,478,227	\$ 1,056,793	\$ 153,583	\$ 15,526,196
Feb-10	\$ 2,501,732	\$ 94,418	\$ 608,748	\$ 5,128,557	\$ 826,920	\$ 79,727	\$ 863,261	\$ 639,595	\$ 2,128,638	\$ 914,814	\$ 153,583	\$ 13,939,993
Mar-10	\$ 2,521,136	\$ 90,404	\$ 626,425	\$ 5,610,594	\$ 976,957	\$ 80,661	\$ 947,021	\$ 709,576	\$ 2,351,257	\$ 972,907	\$ 153,583	\$ 15,040,521
Apr-10	\$ 2,641,649	\$ 83,153	\$ 566,704	\$ 5,431,507	\$ 945,842	\$ 96,083	\$ 931,404	\$ 682,326	\$ 2,233,070	\$ 964,351	\$ 153,583	\$ 14,729,671
May-10	\$ 3,134,098	\$ 68,222	\$ 744,422	\$ 5,936,844	\$ 1,058,790	\$ 103,115	\$ 983,350	\$ 738,243	\$ 2,385,795	\$ 1,020,181	\$ 153,583	\$ 16,326,642
Jun-10	\$ 3,369,202	\$ 85,957	\$ 918,275	\$ 6,311,415	\$ 1,059,343	\$ 84,919	\$ 992,426	\$ 737,812	\$ 2,428,995	\$ 1,073,096	\$ 153,583	\$ 17,215,024
Jul-10	\$ 3,712,183	\$ 90,866	\$ 1,174,154	\$ 7,314,666	\$ 1,201,294	\$ 90,090	\$ 1,051,565	\$ 761,789	\$ 2,842,456	\$ 1,279,963	\$ 153,583	\$ 19,672,609
Aug-10	\$ 3,650,469	\$ 89,633	\$ 970,351	\$ 7,117,957	\$ 1,169,201	\$ 97,036	\$ 1,026,552	\$ 773,224	\$ 2,550,784	\$ 1,264,870	\$ 153,583	\$ 18,863,662
Sep-10	\$ 3,599,110	\$ 91,002	\$ 748,252	\$ 6,393,959	\$ 1,093,447	\$ 77,619	\$ 970,028	\$ 733,470	\$ 2,215,467	\$ 1,086,676	\$ 153,583	\$ 17,162,614
Oct-10	\$ 2,924,390	\$ 88,083	\$ 668,276	\$ 5,890,248	\$ 949,730	\$ 79,133	\$ 968,238	\$ 718,563	\$ 2,246,460	\$ 1,241,840	\$ 153,583	\$ 15,928,544
Nov-10	\$ 2,656,457	\$ 85,418	\$ 677,832	\$ 5,528,378	\$ 910,441	\$ 79,727	\$ 923,338	\$ 692,014	\$ 2,260,420	\$ 955,784	\$ 153,583	\$ 14,923,393
Dec-10	\$ 2,735,001	\$ 81,528	\$ 820,471	\$ 5,921,018	\$ 967,291	\$ 80,661	\$ 957,625	\$ 706,463	\$ 2,330,015	\$ 982,127	\$ 153,583	\$ 15,735,784
<b>Total GMC</b>	<b>\$ 36,048,913</b>	<b>\$ 1,032,223</b>	<b>\$ 9,223,079</b>	<b>\$ 72,360,270</b>	<b>\$ 12,113,784</b>	<b>\$ 1,027,903</b>	<b>\$11,562,936</b>	<b>\$ 8,587,559</b>	<b>\$ 28,451,583</b>	<b>\$12,813,403</b>	<b>\$ 1,843,000</b>	<b>\$ 195,064,654</b>
Other revenue												
<b>Total collection</b>	<b>\$ 36,048,913</b>	<b>\$ 1,032,223</b>	<b>\$ 9,223,079</b>	<b>\$ 72,360,270</b>	<b>\$ 12,113,784</b>	<b>\$ 1,027,903</b>	<b>\$11,562,936</b>	<b>\$ 8,587,559</b>	<b>\$ 28,451,583</b>	<b>\$12,813,403</b>	<b>\$ 1,843,000</b>	<b>\$ 195,064,654</b>
<b>Rate</b>	<b>\$ 80.1791</b>	<b>\$ 68.4673</b>	<b>\$ 1.1420</b>	<b>\$ 0.3031</b>	<b>\$ 1.0911</b>	<b>\$ 0.2522</b>	<b>\$ 2.0372</b>	<b>\$ 2.0372</b>	<b>\$ 0.3747</b>	<b>\$ 0.1439</b>	<b>\$ 1,000</b>	
Notes:	Revenues are not known until approximately two months after the trade month ends. Forecast revenues will be subject to later adjustments.											

California Independent System Operator 2010 Cost Allocation Model								
	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total
1998-2000 Bonds	30.6%	8.6%	0.3%	11.9%	16.5%	1.0%	31.1%	100.0%
2004 Bonds	16.6%	5.2%	0.2%	17.7%	10.9%	14.0%	35.5%	100.0%
2007 Bonds	13.5%	3.9%	0.1%	19.9%	8.9%	19.7%	34.0%	100.0%
2008 Bonds	33.0%	12.1%	0.4%	10.7%	14.9%	5.3%	23.6%	100.0%
2010 Cash Financed	18.3%	6.9%	0.2%	15.4%	11.9%	12.3%	34.9%	100.0%
1998-2000 Bonds Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2004 Bond Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2007 Bond Debt Service	\$ 3,700,911	\$ 1,062,744	\$ 38,603	\$ 5,467,435	\$ 2,431,681	\$ 5,394,443	\$ 9,324,894	\$ 27,420,710
2008 Bond Debt Service	\$ 11,066,780	\$ 4,063,523	\$ 122,349	\$ 3,599,601	\$ 5,000,392	\$ 1,786,310	\$ 7,915,334	\$ 33,554,290
2010 Cash Financed	\$ 2,750,350	\$ 1,041,850	\$ 30,775	\$ 2,312,250	\$ 1,784,250	\$ 1,842,575	\$ 5,237,950	\$ 15,000,000
Capital and Debt Service	\$ 17,518,040	\$ 6,168,117	\$ 191,727	\$ 11,379,286	\$ 9,216,323	\$ 9,023,328	\$ 22,478,178	\$ 75,975,000
	23.1%	8.1%	0.3%	15.0%	12.1%	11.9%	29.6%	100%
<b>Notes:</b>								
See "Debt Mapping worksheet" to determine mapping of debt service costs related to the 2008 bond offering that refinanced previous debt and provided new money for 2008-2010 capital expenditures.								

California Independent System Operator 2010 Cost Allocation Model								
	Principal	Interest	Total Debt Service	Percent of Total				
<b>2008 Bonds, Total Debt Service for 2010</b>	<b>52,812,500</b>	<b>8,162,500</b>	<b>60,975,000</b>	<b>100%</b>				
(Budgeted at 125% of debt service)								
Comprised of: (see allocation below)								
Refinancing 2000 Bonds	-	-	-	0%				
2004 Bond Offering	-	-	-	0%				
2007 Bond Offering	23,750,000	3,670,710	27,420,710	45%				
2008 Bond Offering (new money portion)	29,062,500	4,491,790	33,554,290	55%				
Notes:								
In June 2008, the ISO issued new bonds to provide funding for capital expenditures and to refinance/retire all previously outstanding debt.								
As a result, the 2010 revenue requirement will contain debt service related to only the new bonds, but in this cost allocation model, amounts must be attributed to "old" and "new" money.								
It therefore becomes necessary to allocate the annual debt service payments to "new" and "old" money so that cost allocations can be made to the GMC service categories based on ISO system allocations.								
Year debt service is collected in GMC	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>Total</b>
Year debt service is due	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>		
<u>Principal Payments of Bonds issued in June 2008 for new money and to refinance existing debt</u>								
2008 Bonds	31,000,000	39,100,000	42,250,000	25,130,000	36,025,000	23,465,000		196,970,000
<u>Schedule of Principal Payments from previously outstanding bonds</u>								
2004 Bonds	28,900,000	46,200,000						75,100,000
2007 Bonds		5,500,000	19,000,000	15,300,000	20,200,000			60,000,000
Total previous bonds	28,900,000	51,700,000	19,000,000	15,300,000	20,200,000	-		135,100,000
Ratio of Total Old Debt to Total June Issuance								69%
<u>Ratio of each series to total previously outstanding bonds</u>								
2004 Bonds		89%	0%	0%	0%			
2007 Bonds		11%	100%	100%	100%			
Allocation is by year, with old money portion the lessor of previous old money amount, or total new debt service								
New Money Portion	2,100,000	-	23,250,000	9,830,000	15,825,000	23,465,000		74,470,000
Old Money Portion	28,900,000	39,100,000	19,000,000	15,300,000	20,200,000	-		122,500,000
Ratios: New Money Portion	7%	0%	55%	39%	44%	100%		38%
Old Money Portion	93%	100%	45%	61%	56%	0%		62%



California Independent System Operator 2010 Cost Allocation Model										
Summary of Expense Recovery Budget										
	Budget	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total	
<b>Expense Recovery Budget</b>										
SC Application and Training Fees	\$ (500,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (500,000)	\$ (500,000)	
WECC Reimbursement/NERC Reimbursement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
COI Path Operator Fee	\$ (2,000,000)	\$ (1,419,683)	\$ (580,317)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,000,000)	
Large Generator Interconnection Project	\$ (1,850,000)	\$ (1,850,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,850,000)	
Interest Earnings	\$ (3,750,000)	\$ (1,252,666)	\$ (496,449)	\$ (14,230)	\$ (284,664)	\$ (515,267)	\$ (229,194)	\$ (957,529)	\$ (3,750,000)	
<b>Total Expense Recovery Budget</b>	<b>\$ (8,100,000)</b>	<b>\$ (4,522,349)</b>	<b>\$ (1,076,766)</b>	<b>\$ (14,230)</b>	<b>\$ (284,664)</b>	<b>\$ (515,267)</b>	<b>\$ (229,194)</b>	<b>\$ (1,457,529)</b>	<b>\$ (8,100,000)</b>	
Percent		56%	13%	0%	4%	6%	3%	18%	100%	
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California Independent System Operator 2010 Cost Allocation Model								
Summary of Operating and Capital Reserves								
	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total
<b>Operating and Capital Reserves Credit</b>	\$ 3,961,466	\$ 8,817,744	\$ (19,474)	\$ (1,915,374)	\$ 17,072,535	\$ 7,509,589	\$ 62,986	\$ 35,489,471
<b>Allocation to new charges</b>								\$ -
<b>Total</b>	\$ 3,961,466	\$ 8,817,744	\$ (19,474)	\$ (1,915,374)	\$ 17,072,535	\$ 7,509,589	\$ 62,986	\$ 35,489,471
Notes: Mapping of Reserve Credit Amounts from Operating & Capital Reserve Worksheet to these Service Categories:								
CRS--->CRS								
ETS--->ETS								
Forward Scheduling--->Forward Scheduling								
Congestion Management & Market Usage-->Market Usage								
Settlements, Metering and Client Relations-->Settlements, Metering and Client Relations								
In "Allocation to new charges", 20% of the Market Usage Operating and Capital Reserves credit is allocated to Market Usage Forward Energy.								
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California Independent System Operator 2010 Cost Allocation Model Rates by Charge Code					
Function	Charge	CC #	Amount	Billing Unit	
CRS	CRS Peak	4501	\$ 80.1791	MW-months	
	CRS Off-Peak	4502	\$ 68.4673	MW-months	
	CRS-Export Energy	4503	\$ 1.1420	MWh	
ETS	ETS-NE	4505	\$ 0.3031	MWh	
	ETS-UE	4506	\$ 1.0911	MWh	
CRS/ETS	CRS/ETS-TOR	4508	\$ 0.2522	MWh	
FS	Non-IS Trades	4511	\$ 2.0372	Schedules	
	IS Trades	4512	\$ 2.0372	IS Trade	
	PGAB	4513	\$ 1.5401	PGAB IS Trade	
MU	AS	4534	\$ 0.3747	MWh	
	IE	4535	\$ 0.3747	MWh	
	UE	4536	\$ 0.3747	MWh	
	Forward Energy	4537	\$ 0.1439	MWh	
ETS/MU	PIRP	4546	\$ 1.4658	MWh	
SMCR	SMCR	4575	\$ 1,000	Customer months	
<p>The revised CAISO GMC Rate Proposal includes:                      80/20 revenue split between ETS-withdrawals (CC4505) and ETS-UE (CC4506)                      Recovery of excess SMCR revenue based on Functional Association of Charge Types                      No discount for Forward Scheduling (CC4511) or Inter SC trades (CC4512), but retain discount for Path 15 Facilitator Inter SC trades (CC4513)                      MU-Forward Energy (CC4537) based on cost of service                      ETS/MU UIE PIRP rate (CC 4546) to be simple sum of ETS-withdrawals (CC4505) and MU-deviations (CC4536) rates                      SMCR rate (CC4575) remains at \$1000                      Forward Energy bill determinant set to 20% of net of withdrawals and injections                      CRS/ETS TOR rate based on cost of service</p>					
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California Independent System Operator 2010 Cost Allocation Model									
Summary of Revenue Requirement Calculation									
	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total	
<b>Revenue Requirement</b>									
Operations and Maintenance	\$ 62,203,029	\$ 25,426,441	\$ 713,898	\$ 6,737,071	\$ 23,575,827	\$ 5,562,857	\$ 38,460,002	\$ 162,679,125	
Financing Budget-2000 debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Financing Budget-2004 debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Financing Budget-2007 debt	\$ 3,700,911	\$ 1,062,744	\$ 38,603	\$ 5,467,435	\$ 2,431,681	\$ 5,394,443	\$ 9,324,894	\$ 27,420,710	
Financing Budget-2008 debt	\$ 11,066,780	\$ 4,063,523	\$ 122,349	\$ 3,599,601	\$ 5,000,392	\$ 1,786,310	\$ 7,915,334	\$ 33,554,290	
Financing Budget-cash funded	\$ 2,750,350	\$ 1,041,850	\$ 30,775	\$ 2,312,250	\$ 1,784,250	\$ 1,842,575	\$ 5,237,950	\$ 15,000,000	
<b>Revenue Requirement before application of other credits</b>	<b>\$ 79,721,069</b>	<b>\$ 31,594,558</b>	<b>\$ 905,625</b>	<b>\$ 18,116,357</b>	<b>\$ 32,792,150</b>	<b>\$ 14,586,186</b>	<b>\$ 60,938,180</b>	<b>\$ 238,654,125</b>	
Percent of Total	33%	13%	0%	8%	14%	6%	26%	100%	
<b>Other Credits</b>									
Expense Recovery Budget	\$ (4,522,349)	\$ (1,076,766)	\$ (14,230)	\$ (284,664)	\$ (515,267)	\$ (229,194)	\$ (1,457,529)	\$ (8,100,000)	
Operating and Capital Reserves	\$ (3,961,466)	\$ (8,817,744)	\$ 19,474	\$ 1,915,374	\$ (17,072,535)	\$ (7,509,589)	\$ (62,986)	\$ (35,489,471)	
<b>Total Other Credits</b>	<b>\$ (8,483,815)</b>	<b>\$ (9,894,510)</b>	<b>\$ 5,244</b>	<b>\$ 1,630,709</b>	<b>\$ (17,587,802)</b>	<b>\$ (7,738,783)</b>	<b>\$ (1,520,514)</b>	<b>\$ (43,589,471)</b>	
<b>Total Revenue Requirement</b>	<b>\$ 71,237,254</b>	<b>\$ 21,700,048</b>	<b>\$ 910,869</b>	<b>\$ 19,747,067</b>	<b>\$ 15,204,348</b>	<b>\$ 6,847,402</b>	<b>\$ 59,417,666</b>	<b>\$ 195,064,654</b>	
Percent of Total	37%	11%	0%	10%	8%	4%	30%	100%	

California Independent System Operator 2010 Cost Allocation Model									
Summary of Revenue Requirement Calculation: Current Year									
	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total	
<b>Revenue Requirement</b>									
Operations and Maintenance	\$ 62,203,029	\$ 25,426,441	\$ 713,898	\$ 6,737,071	\$ 23,575,827	\$ 5,562,857	\$ 38,460,002	\$ 162,679,125	
Financing Budget-2000 debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Financing Budget-2004 debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Financing Budget-2007 debt	\$ 3,700,911	\$ 1,062,744	\$ 38,603	\$ 5,467,435	\$ 2,431,681	\$ 5,394,443	\$ 9,324,894	\$ 27,420,710	
Financing Budget-2008 debt	\$ 11,066,780	\$ 4,063,523	\$ 122,349	\$ 3,599,601	\$ 5,000,392	\$ 1,786,310	\$ 7,915,334	\$ 33,554,290	
Financing Budget-cash funded	\$ 2,750,350	\$ 1,041,850	\$ 30,775	\$ 2,312,250	\$ 1,784,250	\$ 1,842,575	\$ 5,237,950	\$ 15,000,000	
<b>Revenue Requirement before application of other credits</b>	<b>\$ 79,721,069</b>	<b>\$ 31,594,558</b>	<b>\$ 905,625</b>	<b>\$ 18,116,357</b>	<b>\$ 32,792,150</b>	<b>\$ 14,586,186</b>	<b>\$ 60,938,180</b>	<b>\$ 238,654,125</b>	
Percent of Total	33%	13%	0%	8%	14%	6%	26%	100%	
<b>Other Credits</b>									
Expense Recovery Budget	\$ (4,522,349)	\$ (1,076,766)	\$ (14,230)	\$ (284,664)	\$ (515,267)	\$ (229,194)	\$ (1,457,529)	\$ (8,100,000)	
Operating and Capital Reserves	\$ (3,961,466)	\$ (8,817,744)	\$ 19,474	\$ 1,915,374	\$ (17,072,535)	\$ (7,509,589)	\$ (62,986)	\$ (35,489,471)	
<b>Total Other Credits</b>	<b>\$ (8,483,815)</b>	<b>\$ (9,894,510)</b>	<b>\$ 5,244</b>	<b>\$ 1,630,709</b>	<b>\$ (17,587,802)</b>	<b>\$ (7,738,783)</b>	<b>\$ (1,520,514)</b>	<b>\$ (43,589,471)</b>	
	71%	-516%	5%	-204%	78%	212%	-77%		
<b>Total Revenue Requirement</b>	<b>\$ 71,237,254</b>	<b>\$ 21,700,048</b>	<b>\$ 910,869</b>	<b>\$ 19,747,067</b>	<b>\$ 15,204,348</b>	<b>\$ 6,847,402</b>	<b>\$ 59,417,666</b>	<b>\$ 195,064,654</b>	
Percent of Total	37%	11%	0%	10%	8%	4%	30%	100%	

California Independent System Operator 2010 Cost Allocation Model									
Summary of Revenue Requirement Calculation: Prior Year									
	Core Reliability	Energy Transmission Services	CRS/ETS TOR	Forward Scheduling	Market Usage	Market Usage Forward Energy	Settlements, Metering and Client Relations	Total	
<b>Revenue Requirement</b>									
Operations and Maintenance	\$ 58,476,446	\$ 24,005,130	\$ 663,366	\$ 6,798,307	\$ 22,325,540	\$ 5,410,568	\$ 39,063,317	\$ 156,742,674	
Financing Budget-2000 debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Financing Budget-2004 debt	\$ 8,791,235	\$ 2,760,773	\$ 93,597	\$ 9,367,670	\$ 5,774,221	\$ 7,446,130	\$ 18,823,768	\$ 53,057,394	
Financing Budget-2007 debt	\$ 852,504	\$ 244,803	\$ 8,892	\$ 1,259,423	\$ 560,137	\$ 1,242,609	\$ 2,147,988	\$ 6,316,356	
Financing Budget-2008 debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Financing Budget-cash funded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Revenue Requirement before application of other credits</b>	\$ 68,120,185	\$ 27,010,706	\$ 765,855	\$ 17,425,400	\$ 28,659,898	\$ 14,099,307	\$ 60,035,073	\$ 216,116,424	
<b>Percent of Total</b>	32%	12%	0%	8%	13%	7%	28%	100%	
<b>Other Credits</b>									
Expense Recovery Budget	\$ (3,429,576)	\$ (905,776)	\$ (9,178)	\$ (208,831)	\$ (343,468)	\$ (168,970)	\$ (1,075,049)	\$ (6,140,849)	
Operating and Capital Reserves	\$ (1,523,283)	\$ 3,282,866	\$ 14,152	\$ (1,354,948)	\$ (9,527,046)	\$ (2,308,868)	\$ (5,580,073)	\$ (16,997,202)	
<b>Total Other Credits</b>	\$ (4,952,859)	\$ 2,377,089	\$ 4,973	\$ (1,563,779)	\$ (9,870,514)	\$ (2,477,838)	\$ (6,655,123)	\$ (23,138,051)	
<b>Total Revenue Requirement</b>	\$ 63,167,325	\$ 29,387,795	\$ 770,828	\$ 15,861,621	\$ 18,789,384	\$ 11,621,469	\$ 53,379,950	\$ 192,978,373	
<b>Percent of Total</b>	33%	15%	0%	8%	10%	6%	28%	100%	

<b>California Independent System Operator 2010 Cost Allocation Model</b>									
		<b>Core Reliability</b>	<b>Energy Transmission Services</b>	<b>CRS/ETS TOR</b>	<b>Forward Scheduling</b>	<b>Market Usage</b>	<b>Market Usage Forward Energy</b>	<b>Settlements, Metering and Client Relations</b>	<b>Total</b>
<b>Overall change in revenue requirement</b>		\$ 8,069,929	\$ (7,687,747)	\$ 140,040	\$ 3,885,445	\$ (3,585,036)	\$ (4,774,066)	\$ 6,037,716	\$ 2,086,281
<b>Consisting of:</b>									
O&M Budget Change		\$ 3,726,583	\$ 1,421,311	\$ 50,532	\$ (61,236)	\$ 1,250,287	\$ 152,290	\$ (603,315)	\$ 5,936,451
Debt Service and Capital		\$ 7,874,301	\$ 3,162,542	\$ 89,238	\$ 752,193	\$ 2,881,965	\$ 334,589	\$ 1,506,422	\$ 16,601,250
Expense Recovery// Operating & Capital Reserve		\$ (3,530,955)	\$ (12,271,600)	\$ 271	\$ 3,194,488	\$ (7,717,287)	\$ (5,260,945)	\$ 5,134,608	\$ (20,451,420)
<b>Percentage of change due to:</b>									
<b>Total</b>		12.8%	-26.2%	18.2%	24.5%	-19.1%	-41.1%	11.3%	1.08%
O&M Budget Change		5.9%	4.8%	6.6%	-0.4%	6.7%	1.3%	-1.1%	3.08%
Debt Service and Capital		12%	11%	12%	5%	15%	3%	3%	8.60%
Expense Recovery// Operating & Capital Reserve		-6%	-42%	0%	20%	-41%	-45%	10%	-10.60%
Percentages calculated as Dollar amount change divided by 2009 Revenue Requirement by GMC Service Category.									