

California Independent System Operator
2010 Cost of Service: MRTU Rate Structure
Capital Expenditure Detail for 2010 Revenue Financed Expenditures

This spreadsheet contains the detailed listing of revenue financed capital projects in 2010. Each listed project or expenditure is either associated with a system or directly assigned.

**California Independent System Operator
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Cash Financed Capital Expenditures**

System	Cash Financed	CRS	ETS	CRS/ETS TOR	FS	MU	MU-FE	SMCR	Total
Internal Development		23.53%	3.01%	0.22%	9.91%	6.42%	9.47%	47.44%	100.00%
Masterfile		19.84%	0.00%	0.16%	20.00%	55.00%	0.00%	5.00%	100.00%
MRTU Capital		12.68%	4.68%	0.14%	19.01%	10.75%	15.41%	37.33%	100.00%
Office Automation - desktop/laptop (OA)		40.34%	19.26%	0.49%	1.52%	14.24%	1.70%	22.45%	100.00%
Storage (EMC symmetrix)		24.86%	6.18%	0.21%	13.62%	17.62%	4.11%	33.40%	100.00%
Total	\$ 15,000,000								

California Independent System Operator 2010 Cost of Service: MRTU Rate Structure Bond Financed Capital Expenditures		
2010 Capital Listing	Funding from 2008 Bonds	GMC System Allocation
Congestion Revenue Rights(CRR) Enhancements for 2010		Congestion Revenue Rights (CRR)
Facilities Furniture Purchase- Annual Request 2010		Physical Facilities Software Application/Furniture/Leasehold Improvements
Bid Cost Recovery for Units Running over Multiple Operating Days		MRTU Capital
Capabilities Maturity - Performance Reporting		Office Automation - desktop/laptop (OA)
CAPS Integration into SaMC		Compliance
Control Area Scheduler (CAS) Application Upgrade & Hosting Option		Scheduling & Tagging Next Generation (STiNG) - CAS
Customer Relationship Management System (CRM)		Client Relations Tools
Data Warehouse Design and Implementation		DataWarehouse
Day Ahead Scheduling of Intermittent Resoruces		MRTU Capital
Energy Management System (EMS) Grid Operations Training Simulator (GOTS)		Grid Operations Training Simulator (GOTS)
EMS System Enhancements, Automatic Generation Control (AGC) Tuning Tool, Resource Monitor		Energy Management System (EMS)
Web Based tariff (eTariff)		Office Automation - desktop/laptop (OA)
Financial Systems Enhancements		Oracle Corporate Financials
Engineering Analysis Tools		Engineering Analysis Tools
Implement Network Application Tools - Dynamic Stability		Network Applications
Integration of Renewable Resources Program - IRRP		Participating Intermittent Resource Project (PIRP)
Load Aggregation Point Granularity		Integrated Forward Market (IFM)
Microsoft Communication server (Jabber replacement)		Office Automation - desktop/laptop (OA)
New Reporting Platform (Actuate replacement)		Office Automation - desktop/laptop (OA)
Operational Meter Analysis & Reporting (OMAR) New Features, Corrections, and Automation		Operational Meter Analysis and Reporting (OMAR)
Operational Improvements to Market Systems		MRTU Capital
Operational Tools - Netting Checker, Existing Transmission Contracts, Risk Predictor, Load Shedding		Existing Transmission Contracts Calculator (ETCC)
Oracle Identity Management Enhancements		Oracle Corporate Financials
Outage Management System - Multi Year Projects		Scheduling & Logging for ISO California (SLIC)
Phasor Measurement Infrastructure & Wide Area Monitoring		Network Applications
Procedure to Apply Resource Adequacy (RA) to Must Offer Obligation (MOO) for a Subset of Hours		Scheduling Infrastructure Business Rules (SIBR)
Resource Interconnection Management System (RIMS) - Release 3		New Resource Interconnection (NRI)
Rules to Encourage Dispatchability of Wind and Solar Resources		Scheduling Infrastructure Business Rules (SIBR)
Total Bond Funded Capital	\$ 18,000,000	