
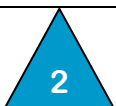







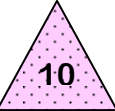

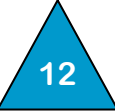



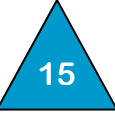












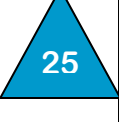
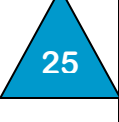

	Touch Point (time)	Process: Demand	Reference
	Congestion Revenue Rights Annual Allocation/Auction process (includes Long Term CRR)	<p>Participate in the CRR auction/allocation (approximately 4 months prior to the trade year) NOTE: For CRR year 2008, the last CRR offered training will be Jun 6-8, 2007. Auction/Allocation process starts in July. Training is required to participate in the CRR auction/allocation processes</p> <p>Prior to the trade year, Load Serving Entity's (LSE) to provide historical load data from the yearly CRR auction/allocation process. CAISO will calculate "upper bounds" of the available CRR's and LSE will request specific CRR's. Results available from CRR Market User Interface (MUI)</p>	<p><i>CAISO Tariff</i></p> <ul style="list-style-type: none"> <li>• Section 36 – General</li> <li>• Section 36.8 – Process</li> <li>• Section 36.8.2.1 – seasonal quantity</li> </ul> <p><i>CAISO BPM for CRR</i></p> <ul style="list-style-type: none"> <li>• Section 4.3 – Key Steps</li> <li>• Section 7 – Pre-allocation</li> <li>• Section 8- Allocation Process</li> <li>• Section 9 – Auction Process</li> </ul>
	Award/Allocate Annual Seasonal CRR	Provide SC notice of CRR ownership in Market User Interface (MUI)	<p><i>CAISO BPM for CRR</i></p> <ul style="list-style-type: none"> <li>• Section 4.3 – Key Steps</li> </ul>
	Deliverability Study	To assess the deliverability of Generation to serve load in the CAISO control area	<p><i>CAISO Tariff 40.4.6.1</i></p> <p><i>CAISO BPM Reliability Requirements</i></p> <ul style="list-style-type: none"> <li>• Section 5.1.3.4</li> </ul> <p><i>Technical paper at CAISO.com</i></p>
	Technical Study	CAISO will publish a technical study of minimum amount of local Capacity Area Resource that must be available to CAISO within each local capacity Area.	<p><i>CAISO Tariff 40.3.1</i></p> <p><i>CAISO BPM for Reliability Requirements</i></p> <ul style="list-style-type: none"> <li>• Section 7</li> <li>• Attachment C</li> </ul>




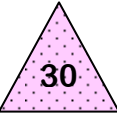

	Touch Point (time)	Process: Demand	Reference
	Annual election of Reserve Sharing LSE or Modified Reserve Sharing LSE	Must elect to either be a Reserve Sharing LSE or a Modified Reserve Sharing LSE by Sept 20.	<i>CAISO Tariff Section 40.1</i> <i>CAISO Business Practice Manual for Reliability Requirements:</i> <ul style="list-style-type: none"> <li>• Section 3.1</li> <li>• Section 6.1 and 6.2</li> </ul>
	Annual Resource Adequacy Plans	Reserving Sharing:  CPUC LSE: <ul style="list-style-type: none"> <li>• Provide Resource Adequacy Plan</li> </ul> Non-CPUC: <ul style="list-style-type: none"> <li>• Provide Demand Forecast unless use CEC Forecast</li> <li>• Provide Annual Resource Adequacy Plan</li> </ul> Modified Reserve Sharing LSE <ul style="list-style-type: none"> <li>• Provide Annual Resource Adequacy Plan</li> </ul> Load Following MSS: <ul style="list-style-type: none"> <li>• Provide an Annual Resource Adequacy Plan</li> </ul>	<i>CAISO Tariff Section 40 – General</i>  <i>CAISO BPM for Reliability Requirements</i> <ul style="list-style-type: none"> <li>• Section 2.4</li> <li>• Section 3.2.1</li> <li>• Section 3.2.2</li>   <li>• Section 3.5</li>   <li>• Section 3.3</li> <li>• Section 3.5</li>   <li>• Section 3.4</li> <li>• Section 3.5</li> </ul>
	Monthly CRR allocation/auction process	Participate in the CRR auction/allocation. Similar to the annual, LSE will submit historical load, CAISO will calculate upper bounds. LSE's will then request specific CRR's. The monthly CRR auction/allocation process for Feb 08 will begin in October '07. Results available from CRR UI	<i>CAISO Tariff</i> <ul style="list-style-type: none"> <li>• 36.8 – General Allocation</li> <li>• 36.8.2.2 – Monthly quantities</li> </ul> <i>CAISO BPM for CRR</i> <ul style="list-style-type: none"> <li>• Section 10</li> <li>• Section 11</li> </ul>




	Touch Point (time)	Process: Demand	Reference
	Award/Allocate Monthly CRRs	Provide SC notice of CRR ownership in MUI	<i>CAISO BPM for CRR</i> <ul style="list-style-type: none"> <li>• Section 4.3 – Key Steps</li> </ul>
	Monthly Resource Adequacy Plans	CPUC LSE: Provide Resource Adequacy Plan Non-CPUC: Provide Demand Forecast unless use CEC Forecast Provide Resource Adequacy Plan  Modified Reserve Sharing: Provide Resource Adequacy Plan Load Following MSS: Provide a Resource Adequacy Plan	<i>CAISO Tariff Section 40</i>  <i>CAISO BPM for Reliability Requirements</i> <ul style="list-style-type: none"> <li>• Section 3.2</li> <li>• Section 3.3</li> <li>• Section 3.5</li> </ul>
	Transmission Rights and Transmission Curtailment Instructions (TRTC)	Updated as necessary	<i>CAISO Tariff Section 16.4</i>  <i>CAISO BPM for Market Operations</i> <ul style="list-style-type: none"> <li>• Section 5.1.6</li> </ul> <i>CAISO Technical Paper at CAISO.com for Implementation Guide</i>
	Establish a Load ID in Master File	As necessary	<i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Attachment B</li> </ul>
	Submit change in CRR ownership	This must be done prior to 5 days prior to the operating day via the Secondary Registration System	<i>CAISO Tariff 36.7</i>  <i>CAISO BPM for CRR</i> <ul style="list-style-type: none"> <li>• Section 13</li> </ul>
	OASIS publication (T-7)	Publish Peak Load Forecast by IOU service Territory	<i>CAISO Tariff 6.5.2.3</i>  <i>CAISO BPM for Market Operations</i> <ul style="list-style-type: none"> <li>• Section 6.4.2</li> </ul>
	T-7: Day Ahead Market OPENS		<i>CAISO Tariff 30.1</i>




	Touch Point (time)	Process: Demand	Reference
	(T-7) SC can submit Bids into the Day Ahead Market (DAM)	7 day prior SC begin to submit Bids into the Day Ahead Market. Bids validation prior to midnight the day before the Day Ahead Market will include validation for content, business rules validation, and for missing components (more applicable to generators, not load). If the Bid passes all these validations, the Bid will become conditionally valid or conditionally modified. The Bid will stay in this state until the Master File update, the day before the close of the DAM.	
	OASIS publication (T-2 1800)	Publish Demand Forecast, Ancillary Service requirements and OTC/ATC	<i>CAISO Tariff 6.5.2.3</i>  <i>CAISO BPM for Market Operations</i> <ul style="list-style-type: none"> <li>• Section 6.1.5</li> <li>• Section 6.1.6</li> </ul>
	Master File Update	For T-1 trade date at 0000. This will be the copy of the Master File that will be used for both the Day Ahead Market as well as the Real Time Market. After the update, all bids will go through the validation process again, this time using the actual Master File data that will be used when the DAM runs. The Bid will exit this stage as either valid or modified.	<i>CAISO Tariff Section 30.7.3.3</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 8.2.1.2</li> <li>• Section 8.2.1.3</li> </ul>
	Real time Inter-SC Trade market for T OPENS.		<i>CAISO Tariff Section 28.1.3</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 9.1.1</li> </ul>

	Touch Point (time)	Process: Demand	Reference
	SC's can submit Inter-SC Trades	Begin submitting Inter-SC Trades for Energy, Ancillary Services and IFM Load Uplift Obligation	<p><i>CAISO Tariff Section 28</i></p> <p><i>CAISO BPM for Market Instruments Section 9</i></p>
	Daily (by 0600) Day Ahead Inter-SC Trade validation will occur on a 20 minute basis		<i>CAISO BPM for Market Instruments Section 9.1.1</i>
	Daily (by 0600) Demand Forecast	<p>By 6am Load Scheduling Requirement</p> <p>Currently LSE must schedule 95% of the forecasted demand in the Day Ahead time frame. MRTU will have a form of LSE scheduling requirements based on the FERC order. The CAISO has been ordered to file a scheduling requirement on the LSE until convergence bidding has been successfully implemented. What this requirement looks like is currently in stakeholder process (April/May 07) and it is anticipated a white paper will be posted in the April/May 07 time frame.</p>	<p><i>CAISO Tariff Section 31.6.1</i></p> <p>Scheduling requirement in stakeholder process. Expect white paper Mid March to Mid April</p> <p>The system to take this information is still to be determined</p>
	Demand Bid/Schedule for Day Ahead Market Deadline: 1000 T-1	<p>A LSE can submit a Self-Schedule, a Bid, or some combination of both. Can submit a separate Bid for every hour.</p>	<p><i>CAISO Tariff</i></p> <ul style="list-style-type: none"> <li>• <i>Section 30 – General</i></li> <li>• <i>Section 30.5.3</i></li> </ul> <p><i>CAISO BPM for Market Instruments</i></p> <ul style="list-style-type: none"> <li>• <i>Section 5.2</i></li> <li>•</li> </ul>

	Touch Point (time)	Process: Demand	Reference
	Demand Response availability	This is an estimate by the LSE of expected Demand response available if the CAISO calls on interruptible power. This will be used in the Residual Unit Commitment (RUC) process	<i>CAISO BPM for Market Operations</i> <ul style="list-style-type: none"> <li>Section 6.7.2.4.3</li> </ul> <p>System to take this information is still to be determined</p>
	CLOSE the Day Ahead Market	10am T-1	<i>CAISO Tariff 30.5.1 (a)</i>
	SIBR will generate Clean Bids to be used in the Integrated Foreword Market  Demand Bid/Schedule for DAM	Any resource with a requirement to submit Bids will be validated that all required capacity is bid in.	<i>CAISO Tariff Section 30.7</i>  <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>Section 8.1</li> <li>Section 8.2</li> </ul>
	Day Ahead Market Processes (10am – 1PM)	There are three process in the Day Ahead Market:	<i>CAISO Tariff Section 31</i> <i>CAISO BPM for Market Operations Section 6 - General</i> <ul style="list-style-type: none"> <li>Tariff 31.2, BPM for MO 6.5</li> <li>Tariff 31.3&amp;4, BPM for MO 6.6</li> <li>Tariff 31.5, BPM for MO 6.7</li> </ul>
		Market Power Mitigation (MPM)	
		Integrated Forward Market (IFM)	
		Residual Unit Commitment (RUC)	
	Pre-Market Validation of Inter-SC Trades	For Aggregated Price Node (APN) Trades For Physical (PHY) trades	<i>CAISO Tariff Section 28.1.5 – General</i> <i>CAISO Tariff Section 28.1.6.4 - APN</i> <i>CAISO Tariff Section 28.1.6.3 - PHY</i> <i>Market Instruments Section 9.1.2.3</i>

	Touch Point (time)	Process: Demand	Reference
	Inter-SC Trades must be submitted by 1200	The CAISO can facilitate Inter-SC Trades of Energy, Ancillary Services, and IFM Load Uplift Obligation through the settlement process. The Day Ahead Inter-SC Trade is only for Energy	<i>CAISO Tariff Section 28 - General</i> <i>CAISO BPM for Market Operations</i> <ul style="list-style-type: none"> <li>• Section 2.5.3</li> </ul> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 9</li> </ul>
	Post market Validation of Inter-SC Trade	ONLY for Physical trades	<i>CAISO Tariff Section 28.1.6.3</i> <i>CAISO BPM for Market Instruments</i> Section 9.1.2.3
	DAM Results – CAISO Market Results Interface (CRMI) for Schedules and Awards	Scheduling Coordinators will retrieve any DA schedules for Energy or Ancillary Service Awards in the CAISO Market Results Interface (CRMI). This is an Accuate-based reporting tool	<i>CAISO Tariff Section 6.5.3.1</i>  <i>CMRI Reporting User guide on CAISO.com/MRTU/Training</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 11.1.2</li> </ul>
	Day Ahead Market Results – OASIS for public market information		<i>CAISO.com - OASIS</i> <i>CAISO Tariff Section 6.5.3.2.2</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 13</li> </ul>
	Day Ahead Market Load Aggregation Point (LAP) Settlement for Demand for Integrated Forward Market (IFM)		<i>CAISO Tariff</i> <ul style="list-style-type: none"> <li>• Section 11.2.1.2</li> <li>• Section 27.2.2.1</li> </ul>
	DAM Inter-SC Trade results	Can be found in the SIBR system	<i>CAISO Tariff Section 28</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 9 – General</li> <li>• Section 11.1.23 - Reports</li> </ul> <i>Configuration Guide: Day Ahead InterSC trade of Energy</i> CC 6301/6351

	Touch Point (time)	Process: Demand	Reference
	Real Time Market Opens.	At the publication of the Day Ahead Market – 1PM the day prior to the operating day, the Real Time Market will open. NON-PARTICIPATING DEMAND CAN NOT submit Bids into the Real Time Market	
	Real Time Market closes. SC's must have any real time bid submitted by T-75	For Demand resources no bids are accepted	
	Real Time Inter-SC Trade Market Closes.	T-45. Any Inter-SC Trade for Energy, Ancillary Service or IFM Load Uplift obligation must be submitted by T-45	<i>CAISO Tariff Section 28 – General</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 9</li> </ul>
	Dispatch instruction for Real Time Market	Via ADS	
	Real Time Results - OASIS	Since non-participating demand can not submit bids into the Real Time market, there are no market results from CMRI. Public market information will be available via OASIS	<i>CAISO Tariff</i> <ul style="list-style-type: none"> <li>• Section 27.2.2.2</li> <li>• Section 6.5.4.2 - HASP</li> <li>• Section 6.5.5.2 – RTM</li> </ul> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 13</li> </ul>
	Real Time Inter-SC Trades (IST) – Energy	Trades of Energy in Real Time are completely separate from any trade in the Day Ahead Market and are settled at the Real Time Market dispatch interval LMP and the HASP Advisory Schedules for Supply	<i>CAISO Tariff Section 28.1</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• Section 9.1</li> </ul> <i>Configuration Guide InterSC trades</i> <i>HASP CC 6351</i>

	Touch Point (time)	Process: Demand	Reference
	Real Time Inter-SC Trade – Ancillary Services	Trade of Ancillary Services is only allowed in the Real Time Market. The trade of an Ancillary Services lowers the “from” SC AS obligation, and raises the “to” AS obligation	<i>CAISO Tariff Section 28.2</i> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• <i>Section 9.2</i></li> </ul>
	Real Time Inter-SC Trade - IFM Load uplift obligation	Trade of the IFM load uplift obligation is only allowed in the Real Time Market. IFM Tier 1 allocation of Bid Cost Uplift Obligation is the difference between total Demand scheduled in the Day Ahead Market and Self-Scheduled Generation. The “from” SC will lower their obligation and the “to” SC will increase their obligation.	<i>CAISO Tariff</i> <ul style="list-style-type: none"> <li>• <i>Section 28.3</i></li> <li>• <i>Section 11.8.6.4</i></li> </ul> <i>CAISO BPM for Market Instruments</i> <ul style="list-style-type: none"> <li>• <i>Section 9.3</i></li> </ul> <i>Configuration Guide InterSC trades</i> <i>Parent Group: Cost Recovery</i> <i>CC6636</i>
	Settlements		
	Meter Data	Submit meter data. For Non-participating demand the metering must be at least an hourly quantity unless granted an exemption by CAISO. Participants can review meter data using OMAR – Online. Data is typically available the next business day. If there is problem with the meter data, CAISO can be contacted at:  <a href="mailto:MDAS@caiso.com">MDAS@caiso.com</a>	<i>CAISO Tariff Section 10</i> <i>CAISO BPM for Metering</i> <ul style="list-style-type: none"> <li>• <i>Section 4.3</i></li> </ul>

	Touch Point (time)	Process: Demand	Reference
36	Ancillary Service Obligation	Each SC has an obligation of ancillary Service. The SC may Self-Provide the Ancillary Service, trade the obligation, or allow the CAISO to procure the AS via the markets. Each SC will be charged the service specific Ancillary Service User Rate for their net obligation. If an SC over Self-Provides, and the service is accepted, the SC will be paid the User Rate for the additional accepted MW.	<p><i>CAISO Tariff</i></p> <ul style="list-style-type: none"> <li>• Section 8.6</li> <li>• Section 11.10.2</li> </ul> <p><i>Configuration Guides</i>  <i>Parent Group Ancillary Services:</i>  <i>Spin CC6194 and 6196</i>  <i>Non-spin CC6294 and 6296</i>  <i>Regulation Up CC6594 and 6596</i>  <i>Regulation Down CC6694 and 6696</i></p>
37	Bid Cost Recovery Allocation by market		<p><b>IFM:</b>  <i>CAISO Tariff 11.8.6.4</i>  <i>Configuration Guide: Cost Recovery CC 6636 (Tier 1) and 6637 (Tier 2)</i></p> <p><b>RUC:</b>  <i>CAISO Tariff 11.8.6.5</i>  <i>Configuration Guide: Cost Recovery CC 6800 RUC, 6806 (Tier 1) and 6807 (Tier 2)</i></p> <p><b>RTM:</b>  <i>CAISO Tariff 11.8.6.6 RTM</i>  <i>Configuration Guide: Cost Recovery CC 6678</i></p>
38	Residual Unit Commitment (RUC) allocation charges	RUC charges are included in the Bid Cost Recovery allocation. CC 6800 is a pre-calc to these charge codes	<p><i>CAISO Tariff 11.8.6.5</i>  <i>Configuration Guide: Cost Recovery CC 6800, 6806, and 6807</i></p>
39	Allocation of Marginal Loss Surplus Credit	IFM Marginal Losses Surplus Credit = Product of IFM Marginal Loss Surplus rate (\$/MWh) and the MWh of Measured Demand for the SC.	<p><i>CAISO Tariff 11.2.1.6</i>  <i>BPM Configuration Guide: Parent Group DA Energy-Congestion-Losses</i>  <i>Charge Code 6947</i></p>

	Touch Point (time)	Process: Demand	Reference
40	CRR Settlement – Hourly Settlement		<i>CAISO Tariff 11.2.4 BPM Configuration guide: Parent Group DA Energy-Congestion-Losses Charge Code 6700</i>
41	CAISO Settlements	CAISO will settle: GMC, BCR, IFM, RUC, RTM, HASP, High Voltage Access charges and transition charges, wheeling access charges, voltage Support and Black start, excess cost payments, default interest charges , CRR, ISTS, neutrality adjustments, FERC annual charges, distribution of excess marginal losses, miscellaneous charges and payments	<i>CAISO Tariff 11.1.2 BPM Settlements and Billing Attachment E shows links to configuration guides</i>
	GMC		
41	Initial Settlement Statement	1 trade day per statement	CAISO BPM Settlements and Billing: <ul style="list-style-type: none"> <li>• Section 2.3.3 – General</li> <li>• Section 2.3.2 – explanation</li> <li>• Section 2.3.3 - content</li> </ul>