

Review of Settlement Charges for Convergence Bidding Cost Allocation	Charge Code	Convergence Bidding	Comments
<b>Access Charge</b>			
High Voltage Access Charge Allocation	372	N	Access Charge for UDC's and MSS's that are PTO's
High Voltage Access Revenue Payment	374	N	Distribution of access charges (CC372) to PTO's
High Voltage Wheeling Allocation	382	N	Access Charge for power existing the CAISO system at high voltage points
Low Voltage Wheeling Allocation	383	N	Access Charge for power existing the CAISO system at low voltage points
CRR Prepayment Settlement	6722	N	prepayment to CAISO from an entity that serves Load outside of the CAISO to participate in the CRR Allocation process
CRR Prepayment Remainder Allocation	6727	N	Settlement of remaining unpaid WAC at end of CRR cycle
<b>Ancillary Services</b>			
Upward Ancillary Services Neutrality Allocation	6090	N	Distribution of AS Neutrality in proportion to Upward A/S obligation. Procurement of A/S is based on CAISO forecasted demand. Virtual transactions do not affect procurement of A/S.
Day Ahead Spinning Reserve Capacity Settlement	6100	N	DA Spinning Reserve credit to Generators
No Pay Spinning Reserve Settlement	6124	N	Spinning Reserve Credit cancelled to the extent the unit is available
HASP Spinning Reserve Capacity Settlement	6150	N	HASP imported spinning reserve credit
Real Time Spinning Reserve Capacity Settlement	6170	N	RT Imported Spinning Reserve credit

Spinning Reserve Obligation Settlement	6194	N
Spinning Reserve Neutrality Allocation	6196	N
Day Ahead Non-Spinning Reserve Capacity Settlement	6200	N
No Pay Non-Spinning Reserve Settlement	6224	N
HASP Non-Spinning Reserve Capacity Settlement	6250	N
Real Time Non-Spinning Reserve Capacity Settlement	6270	N
Non-Spinning Reserve Obligation Settlement	6294	N
Non-Spinning Reserve Neutrality Allocation	6296	

Spinning Reserve Charge to Load. Virtual transactions do not affect procurement of A/S since it is based on CAISO forecasted demand. Virtual transactions have no A/S obligation.

Distribution of net spinning reserve charges over credits. Recovers from Scheduling Coordinators the total Spinning Reserve Neutrality amount, in proportion to their positive Spinning reserve Obligation. Since the procurement of A/S is based on CAISO forecasted demand virtual transactions do not affect the procurement of A/S. Virtual transactions do not have A/S obligation. DA Non-Spinning Reserve credit to Generators Non-Spinning Reserve credit cancelled to the extent that the unit is not available HASP imported non-spinning reserve credit

RT Imported Non-Spinning Reserve credit Non-Spinning Reserve Charge to Load. Procurement of A/S based on CAISO forecasted demand no impact by Virtual transactions Distribution of net Non-spinning reserve charges over credits

Day Ahead Regulation Up Capacity Settlement	6500	N
No Pay Regulation Up Settlement	6524	N
Real Time Regulation Up Capacity Settlement	6570	N
Regulation Up Obligation Settlement	6594	N
Regulation Up Neutrality Allocation	6596	N
Day Ahead Regulation Down Capacity Settlement	6600	N
No Pay Regulation Down Settlement	6624	N
Real Time Regulation Down Capacity Settlement	6670	N
Regulation Down Obligation Settlement	6694	N
Regulation Down Neutrality Allocation	6696	N
<b>Cost Recovery</b>		
IFM Bid Cost Recovery Tier 1 Allocation	6636	Y

DA Reg Up Credit to generators  
Regulation Up Credit cancelled to the extent the unit is available  
RT Imported reg up credits  
Regulation Up Charge to loads. Procurement of A/S based on CAISO forecasted demand no impact by Virtual transactions.  
Distribution of net Regulation Up charges over credits to SC.  
Procurement of A/S based on CAISO forecasted demand no impact by Virtual transactions.  
DA Reg Down credit to generators  
Reg Down credit cancelled to the extent the unit is unavailable  
RT Imported Reg Down Credits  
Reg Down charge to loads  
Distribution of net reg down charges over credits to SCs.  
Procurement of A/S based on CAISO forecasted demand no impact by Virtual transactions.

allocated costs of make whole payments based on scheduled demand. Since virtual demand may increase unit commitment in the IFM these costs should be allocated to scheduled as well as virtual demand

IFM Bid Cost Recovery Tier 2 Allocation	6637	N
Real Time Bid Cost Recovery Allocation	6678	Y
Day Ahead Residual Unit Commitment (RUC) Availability Settlement	6800	N
Day Ahead Residual Unit Commitment (RUC) Tier 1 Allocation	6806	Y
Day Ahead Residual Unit Commitment (RUC) Tier 2 Allocation	6807	N
No Pay Residual Unit Commitment (RUC) Settlement	6824	N
<b>Black Start, Voltage Support, and Emissions</b>		
Long Term Voltage Support Settlement	302	N
Emissions Cost Recovery	591	N
Emissions Cost Payment	691	N
Black Start Energy Payment	1001	N

allocated costs of make whole payments based on measured demand. Charge to physical load only.

allocates costs of RT make whole payments based on measured demand. Since RT commitment is based on energy deviations between DAM and RTM cost should apply to virtual supply since virtual supply is "short" in RT. This would only apply if a two tier charge type is developed

availability credit to units committed in RUC allocates costs of make whole payment on basis of RT load deviation Since virtual supply may result in additional procurement in RUC charges should be allocated based on net negative deviation plus virtual supply allocates remaining availability payments on basis of RT Demand. Charge to Physical Load only availability credit cancelled to the extent that unit is unavailable

Credit of LT voltage support

Charge to SCs for emissions cost payments to generators Credits to generators for emissions costs Credit for black start energy based on contracted cost

Black Start Capability Allocation	1101	N
Supplemental Reactive Energy calculation	1303	N
Black Start Energy Allocation	1353	N
Black Start Capability Settlement	3101	N
Supplement Reactive Energy Settlement	3303	N
<b>Congestion Revenue Rights</b>		
CRR Hourly Settlement	6700	N
CRR Yearly Clearing	6729	N
CRR Auction Transaction Settlement	6798	N
<b>Day Ahead AS Congestion</b>		
Day Ahead Congestion - AS Spinning Reserve Import Settlement	6710	N
Day Ahead Congestion - AS Non-Spinning Reserve Import Settlement	6720	N
Day Ahead Congestion - AS Regulation Up Import Settlement	6750	N
Day Ahead Congestion - AS Regulation Down Export Settlement	6760	N
<b>Day Ahead Energy</b>		
Day Ahead Energy, Congestion, Loss Settlement	6011	Y
IFM Marginal Losses Surplus Credit Allocation	6947	N
<b>Energy Exchange</b>		
Emergency Energy Exchange Program Neutrality Adjustment	1487	N
<b>Enforcement Protocol</b>		

charge for black start capability

charge for supplemental reactive support, allocated based on measured demand charge for black start energy allocated based on measured demand Direct charge pass through bill credit for black start capability, based on contract credit for supplemental reactive support based on opportunity costs

Hourly CRR credit  
Yearly CRR allocation  
Charges/credits for purchases/sales in CRR auctions

DA congestion charge for spinning reserve import  
DA congestion charge for non-spinning reserve import  
DA congestion charge for reg up import  
DA congestion charge for reg down import

DA energy, loss and congestion settlement to all resources. Will be paid to Virtual Supply and charged to Virtual Demand in the DAM at the LAP  
allocation of over-collected losses

settlement for transactions under EEP processes

EP Penalty Charge due CAISO Trustee	1591	Y
EP Penalty Allocation Payment	1592	N
EP Penalty Charge/Allocation for Under or Over Reported Load/Generation	1593	N
<b>This category of charges does not apply to convergence bidding</b>		
<b>Exceptional Dispatch</b>		
Exceptional Dispatch Uplift Settlement	6488	N
Exceptional Dispatch Uplift Allocation	6489	N
<b>Excess Cost and UDP</b>		

charges Scheduling Coordinators for penalties issued under the Enforcement Protocol. This Charge Code applies any time a Market Participant is found to be responsible for a violation of the Rules of Conduct as stipulated in the CAISO FERC Electric Tariff. Not specific to convergence bidding but would apply to all SCs even those engaged only in convergence bidding with the CAISO. payments to SC not assessed penalties Allocation for Under or Over Reported Load/Generation represents the charge and credit of the Market Adjustment for an Inaccurate Meter Data violation where SC owes the market (Generation was over reported or Load was under reported)

Excess Cost Payment (Uplift) for Exceptional Dispatches that are used to mitigate or resolve Congestion as a result of Transmission related modeling limitations in the FNM (Full Network Mode Payments from Exceptional Dispatch Uplift Settlement

Negative Uninstructed Deviation Penalty	4470	N
Positive Uninstructed Deviation Penalty	4480	N
Real Time Excess Cost for Instructed Energy Settlement	6482	N
Real Time Excess Cost for Instructed Energy Allocation	6486	N
Excess Cost Neutrality	6480	N
<b>FERC Fee</b>		
FERC Fee Under/Over Recovery	525	N
550 551 FERC Fee Settlement	550	N
550 551 FERC Fee Settlement	551	N
<b>Interest</b>		
Default Invoice Interest Payment	2999	N
Default Invoice Interest Charge	3999	N
FERC Mandated Interest on Re-Runs	5999	N
<b>Inter-SC Trades</b>		
Day Ahead Inter-SC Trades Settlement	6301	N
HASP Inter-SC Trades Settlement	6351	N
<b>Participating Intermittent Resources</b>		
Forecasting Service Fee	701	N
Intermittent Resources Net Deviation Settlement	711	N

charge to generators for excess net negative deviations. Part of RT\_UD  
Charge to generator for excess net positive deviations. Part of RT\_UD

credit for incremental exceptional dispatch costs in excess of LMP for System Emergencies Allocates CC 6482 to SCs on basis of net negative UIE (first tier) Allocates remainder of CC 6482 on basis of measured demand

True-up of FERC fee recovery  
Charges for costs of FERC fees  
Charges for costs of FERC fees

Monthly credit for daily interest on open AP balances  
Monthly charge for daily interest on open AR balances  
Interest charge or credit related to FERC mandated settlement re-run

DA settlement of Inter-SC Trades  
HASP settlement of Inter-SC Trades

Monthly charge to PIRs for daily forecasting service  
Monthly charge/credit for net deviation from schedules, at monthly average APN price

Intermittent Resources Net Deviation Allocation	721	N
<b>All charges in the category to not apply to Convergence Bidding</b>		
<b>Reliability Must Run</b>		
RMR Invoice	3010	N
<b>Real Time AS Congestion</b>		
HASP Congestion - AS Spinning Reserve Import Settlement	6711	N
Real Time Congestion - AS Spinning Reserve Import Settlement	6715	N
HASP Congestion - AS Non-Spinning Reserve Import Settlement	6721	N
Real Time Congestion - AS Non-Spinning Reserve Import Settlement	6725	N
Real Time Congestion - AS Regulation Down Export Settlement	6765	N
Real Time Congestion Offset	6774	N
Real Time Market Congestion Credit Settlement	6788	N
<b>Real Time Energy</b>		
HASP Energy, Congestion & Loss Predispatched Settlement	6051	N
Real Time Instructed Imbalance Energy Settlement	6470	N

Distribution to SCs with net negative UD, of difference between CC 6475 + CC 6486 and CC 711

RMR settlement amount by resource and PTO

HASP congestion charge for imported spinning reserve

costs of congestion associated with spinning reserve imports  
HASP congestion charge for imported non-spinning reserves

costs of congestion associated with non-spinning reserve imports  
Cost of congestion associated with reg down imports

Rebates HASP and RT congestion costs to SCs based on measured demand  
This Charge Code computes the Congestion credits (which can be positive or negative) to the designated Billing SCs of ETC/TORs for valid and balanced Self-Schedules post-Day-Ahead.

HASP energy, loss and congestion settlement

Settlement of the portion of imbalance energy attributable to CAISO dispatch instructions

Real Time Uninstructed Imbalance Energy Settlement	6475	Y
Real Time Imbalance Energy Offset	6477	N
<b>Transmission Loss Obligation</b>		
Transmission Loss Obligation Charge for Real Time Schedules Under Control Agreements	6976	N
Allocation of Transmission Loss Obligation Charge for Real Time Schedules Under Control Agreements	6977	N
<b>Unaccounted for Energy</b>		
Real Time Unaccounted for Energy Settlement	6474	N

settlement of the portion of imbalance energy attributable to deviations from CAISO dispatch instructions. Virtual demand will be paid RT LAP LMP, Virtual Supply will be charged RT LAP LMP

allocates sum of IIE, UIE, and UFE to SCs based on measured demand

supplemental charges for losses on basis of RT scheduled flows distribution of supplemental charges for losses on basis of measured demand

Financial settlement of UFE calculated by UDC service area and allocated to SCs on basis of metered demand and RT scheduled exports