Settlements & Billing

Configuration Guide: RTM Bid Cost Recovery EIM Settlement

**CC 66200**

Version 5.3

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# Purpose of Document

The purpose of this document is to capture the requirements and design specification for a Charge Code in one document.

# Introduction

## Background

Bid Cost Recovery (BCR), as applied over the Energy Imbalance Market (EIM) Balancing Authority Area (BAA), is the process by which the CAISO ensures SCs are able to recover Bid Costs for real-time Energy that the EIM Operator (CAISO) dispatches in the EIM. Bid Cost Recovery for Energy Bids applies to Bid Cost Recovery Eligible Resources in general (for example, Generating Units, Pumped-Storage Units, Proxy Demand Resources and resource-specific System Resources) scheduled or dispatched by CAISO.

Real-time Energy Bid Costs are used as inputs to calculate a resource’s net difference between RTM costs and revenues in the Pre-calculation RTM Net Amount configuration. If the difference between the total costs and the market revenues is positive, then the net amount represents a Shortfall. If the difference is negative, then the net amount represents a Surplus. For each resource the RTM Shortfalls and Surpluses are then netted over all hours of the associated Trading Day. Thus, RTM surpluses over the entire Trading Day are used to offset RTM shortfalls incurred over the entire Trading Day. If the net amount over the Trading Day is positive (a Shortfall), then the resource receives a BCR Uplift Payment equal to the net Trading Day amount under CC 66200 – RTM Bid Cost Recovery EIM Settlement.

## Description

Charge Code *CC 66200 RTM Bid Cost Recovery EIM Settlement* applies over an EIM Area. The calculation presents the Bid Cost Recovery Settlement for various Bid Cost Recovery Eligible Resources that are settled on a Resource basis. RTM Eligible Bid Costs and market revenues are netted across Trading Hours and Settlement Intervals of a Trading Day for a single RTM Uplift Payment by resource.

The net amount of Bid Costs and market revenue for each resource or MSS net entity, CAISO market, and Settlement Interval is calculated by the predecessor Pre-calculation RTM Net Amount, and then used as an input for the CC 66200 BCR EIM Settlement calculation. If the net amount for a Trading Day is positive, the Scheduling Coordinator will receive a BCR Uplift Payment; otherwise the Scheduling Coordinator will not receive the payment. The BCR payments are subsequently used as inputs by the Pre-calculation BCR Sequential Netting configuration.

# Charge Code Requirements

## Business Rules

| Bus Req ID | Business Rule |
| --- | --- |
|  | This Charge Code calculates the Bid Cost Recovery Settlement for various Bid Cost Recovery Eligible Resources of a EIM BAA that are settled on a Resource basis. Eligible Bid Costs and market revenues for RTM are netted across all Trading Hours, and Settlement Intervals in a Trading Day for a single RTM Uplift Payment by resource.  In the case of participating resources under EDAM BAAs, Eligible SUC, MLC, TC, Bid Costs and market revenues for RUC (from RCU/RCD) and RTM are netted across all Trading Hours, and Settlement Intervals in a Trading Day for a single combined RUC and RTM Uplift Payment by resource. |
|  | For Multi-Stage Generating Resources, Unrecovered Bid Cost Uplift Payments will be calculated and made at the Generating Unit level and not the MSG Configuration level. |
|  | Scheduling Coordinators shall receive RTM Unrecovered Bid Cost Uplift Payments for a Bid Cost Recovery Eligible Resource, if the net of all RTM Bid Cost Shortfalls and RTM Bid Cost Surpluses for that Bid Cost Recovery Eligible Resource over a Trading Day is positive.  In the case of participating resources under EDAM BAAs, their Scheduling Coordinators shall receive RUC and RTM Unrecovered Bid Cost Uplift Payments for a Bid Cost Recovery Eligible Resource, if the net of all RUC Bid Cost Shortfalls, RUC Bid Cost Surpluses, RTM Bid Cost Shortfalls and RTM Bid Cost Surpluses for that Bid Cost Recovery Eligible Resource over a Trading Day is positive. |
|  | The CAISO will provide EIM Participating Resources RTM Bid Cost Recovery.  The CAISO will also provide EDAM BAA Participating Resources the RUC (from RCU/RCD) Bid Cost Recovery. |
|  | This Charge Code must be computed daily on a dailybasis. |

## Predecessor Charge Codes

| Charge Code/ Pre-calc Name |
| --- |
| CC 6620 - RUC and RTM Bid Cost Recovery Settlement |

## Successor Charge Codes

| Charge Code/ Pre-calc Name |
| --- |
| Pre-calc – Bid Cost Recovery Sequential Netting |

## Inputs - External Systems

|  |  |  |
| --- | --- | --- |
| Row # | Variable Name | Description |
|  |  |  |

## Inputs - Predecessor Charge Codes or Pre-calculations

| Row # | Variable Name | Predecessor Charge Code/  Pre-calc Configuration |
| --- | --- | --- |
| 1 | BAATradingDayTotalRUCandRTMBCRUpliftAmount BruT’I’Q’M’F’md | CC 6620 - RUC and RTM Bid Cost Recovery Settlement |

## CAISO Formula

The daily uplift settlement of Bid Cost Recovery for each resource is as follows:

### EIMTradingDayTotalRTMBCRUpliftAmount BruT’I’Q’M’F’md =

BAATradingDayTotalRUCandRTMBCRUpliftAmount BruT’I’Q’M’F’md

Where Balancing\_Authority\_Area (Q’) <> ‘CISO’

## Outputs

| Row # | Name | Description |
| --- | --- | --- |
|  | In addition to any outputs listed below, all inputs shall be included as outputs. |  |
| 1 | EIMTradingDayTotalRTMBCRUpliftAmount BruT’I’Q’M’F’md | Total RTM BCR Uplift Payment (in $) for MSS and Non-MSS entities, for resources in an EIM Balancing Authority Area on a given Trading Day.  For SCs of participating resources under EDAM BAAs, this |

# Charge Code Effective Date

| Charge Code/  Pre-calc Name | Document Version | Effective Start Date | Effective End Date | Version Update Type |
| --- | --- | --- | --- | --- |
| CC 6620-EIM – RUC and RTM Bid Cost Recovery Settlement | 5.0 | 10/01/14 | 9/30/14 | Configuration Impacted |
| CC 6620-EIM – RUC and RTM Bid Cost Recovery Settlement | 5.1 | 10/01/14 | 9/30/14 | Configuration Impacted |
| CC 6620-EIM – RUC and RTM Bid Cost Recovery Settlement | 5.2 | 10/1/2014 | 4/30/26 | Documentation Edits and Configuration Impacted |
| CC 6620-EIM – RUC and RTM Bid Cost Recovery Settlement | 5.3 | 5/01/26 | Open | Configuration Impacted |