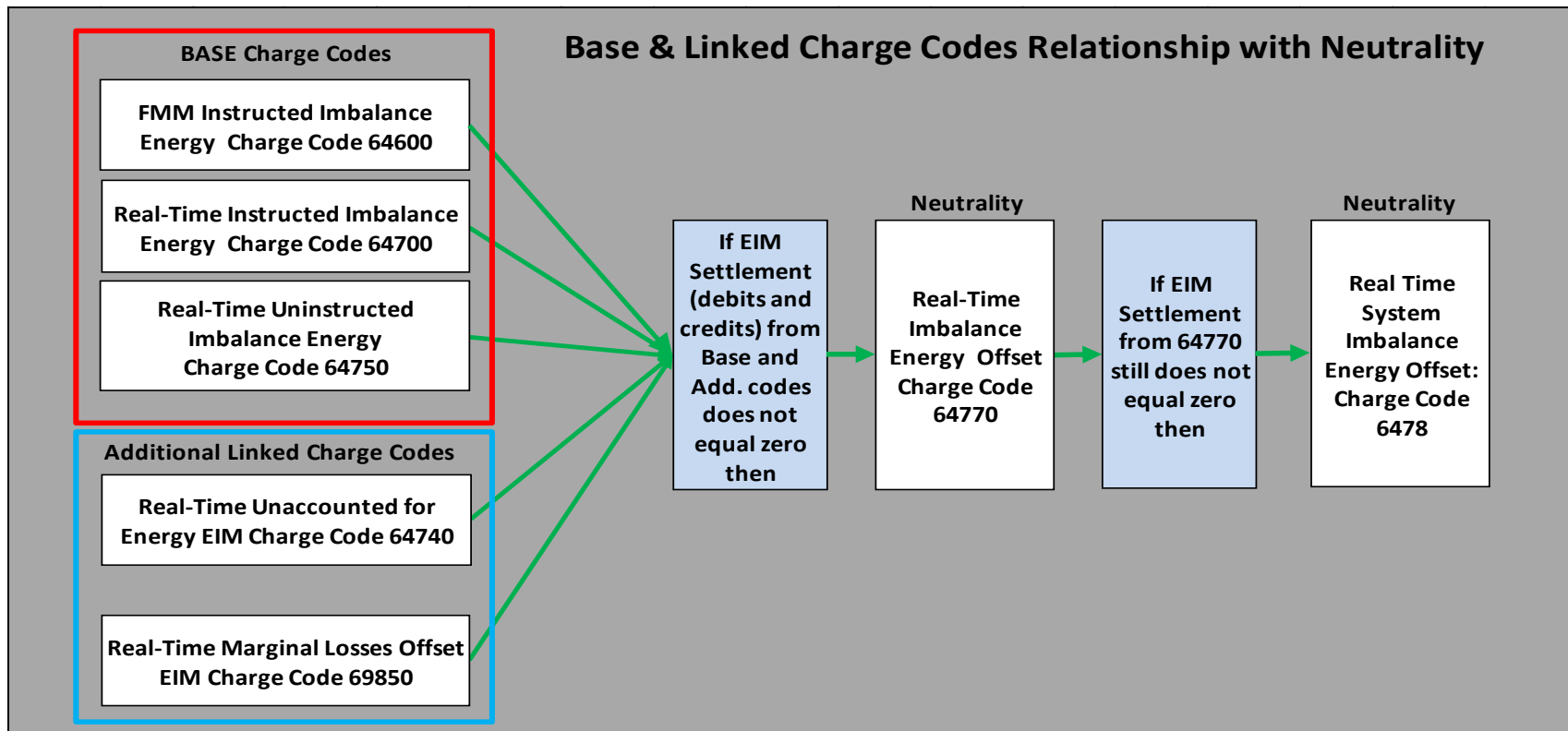


Base & Linked Charge Codes

Continued Relationship Discussion



FERC “Approved” Sub-Allocation

Sub-Allocated Codes (slide 1 of 4)

Understanding the Data:

- The following FERC “approved” charge codes represent all the charge codes sub-allocated by EIM entities.
- Not every entity sub-allocates the entire list. Codes in **Red** are sub-allocated by all EIM BAA’s.
- Net and average results are based on the entire set of historical data Bonneville has tracked. PacifiCorp starts in 2016, Idaho Power in 2018, and Nevada in 2018
- Net is the sum of all debits and credits for the entire set of data for each provider
 - The Net has been included to display how debits and credits could behave over an extended period of time.
- Average is the average of all debits and credits for the entire set of data for each provider
 - Average can be viewed as an estimated monthly cost or credit
- Dollar amounts in **Red** represent Net and Average credits to Bonneville for each data set

**** Represents combined charge code allocation in billing**

For Further Charge Code Details, See CAISO Code Matrix: <http://www.caiso.com/Documents/ISOChargeCodesMatrix.xls>

FERC “Approved” Sub-Allocation

Sub-Allocated Codes (slide 2 of 4)

- Ignoring different lengths in available data below is the sum of all charge codes paid to date

Code Number	Description	
All	Net of All EIM Sub-Allocated Charge Codes from All Providers Below	\$267,164

Code Number	Description	PAC AVERAGE	PAC NET	IPC AVERAGE	IPC NET	NV AVERAGE	NV NET
4564	GMC EIM Transaction Charge	--	--	\$2,582	\$64,556	\$471	\$12,726
4575	GMC Scheduling Coordinator ID Charge	--	--	\$93	\$2,319	\$27	\$399
4989	Daily Rounding Adjustment	--	--	--	--	--	--
4999	Monthly Rounding Adjustment	--	--	--	--	--	--
6045	Under/Over Schedule Load Charge	(\$354)	(\$14,884)	\$33	\$826	\$47	\$1,259
6046	Under/Over Schedule Load Allocation	**	**	(\$625)	(\$15,628)	(\$131)	(\$3,530)
6478	Real Time Imbalance Energy Offset	--	--	(\$35)	(\$492)	--	(\$12)

**** Represents combined charge code allocation in billing**

For Further Charge Code Details, See CAISO Code Matrix: <http://www.caiso.com/Documents/ISOChargeCodesMatrix.xls>

FERC “Approved” Sub-Allocation

Sub-Allocated Codes (slide 3 of 4)

Code Number	Description	PAC AVERAGE	PAC NET	IPC AVERAGE	IPC NET	NV AVERAGE	NV NET
64750	Uninstructed Imbalance Energy	N/A	N/A	N/A	N/A	N/A	N/A
64600	FMM Instructed Imbalance Energy	N/A	N/A	N/A	N/A	N/A	N/A
64700	Real-Time Instructed Imbalance Energy	N/A	N/A	N/A	N/A	N/A	N/A
64770	Real Time Imbalance Energy Offset EIM	(\$17,732)	(\$668,599)	\$31,645	\$791,120	(\$1,777)	(\$47,987)
67740	Real Time Congestion Offset EIM	(\$1,287)	(\$54,043)	(\$13,030)	(\$352,758)	(\$3,134)	(\$84,622)
66200	RTM Bid Cost Recovery EIM Settlement	--	--	(\$35)	(\$867)	(\$65)	(\$1,750)
66780	Real Time Bid Cost Recovery EIM Allocation	\$6,348	\$266,617	\$5,403	\$135,080	\$2,154	\$58,166
69850	Real Time Marginal Losses Offset EIM	--	--	(\$3,659)	(\$91,466)	(\$325)	(\$8,785)
64740	Real Time Unaccounted for Energy	N/A	N/A	N/A	N/A	N/A	N/A

Charge Codes 64750, 64600, and 64700 are based on scheduling behavior. Therefore charges and credits Bonneville has received are not applicable to this analysis.

FERC “Approved” Sub-Allocation

Sub-Allocated Codes (slide 4 of 4)

Code Number	Description	PAC AVERAGE	PAC NET	IPC AVERAGE	IPC NET	NV AVERAGE	NV NET
7070	Flexible Ramp Forecast Movement Settlement	\$5,271	\$221,366	\$1135	\$28,367	\$1,103	\$29,786
7076	Flexible Ramp Forecast Movement Allocation						
7077	Daily Flexible Ramp Up Uncertainty						
7078	Monthly Flexible Ramp Up Uncertainty						
7087	Daily Flexible Ramp Down Uncertainty						
7088	Monthly Flexible Ramp Down Uncertainty						
8989	Daily Neutrality Adjustment	--	--	--	--	--	--
8999	Monthly Neutrality Adjustment	--	--	--	--	--	--
701	Forecasting Service Fee	--	--	--	--	--	--
1592	Enforcement Protocol Penalty Allocation	--	--	--	--	--	--

All Individual Flex Ramp charge codes are aggregated into 7070 for simplicity

BP-22 Proposed Sub-Allocation

Code Number	Description
6045	Under/Over Schedule Load Charge
6046	Under/Over Schedule Load Allocation
6478	Real Time Imbalance Energy Offset
64600	FMM Instructed Imbalance Energy (Schedule 4, Bonneville Interpretation)
64700	Real-Time Instructed Imbalance Energy (Schedule 4, Bonneville Interpretation)
64750	Uninstructed Imbalance Energy (Schedule 4)
64770	Real Time Imbalance Energy Offset EIM
67740	Real Time Congestion Offset EIM
69850	Real Time Marginal Losses Offset EIM
64740	Real Time Unaccounted for EIM Energy Settlement

BP-24 Potential Codes to be Added

Issue: Uncertainties Around Cost Causation

Depending on data availability along with staff time to evaluate and make determinations on cost causation charge codes may get pushed to BP-26

Code Number	Description
66200	RTM Bid Cost Recovery EIM Settlement
66780	Real Time Bid Cost Recovery EIM Allocation
7070	Flexible Ramp Forecast Movement Settlement
7076	Flexible Ramp Forecast Movement Allocation
7077	Daily Flexible Ramp Up Uncertainty Award Allocation
7078	Monthly Flexible Ramp Up Uncertainty Award Allocation
7087	Daily Flexible Ramp Down Uncertainty Award Allocation
7088	Monthly Flexible Ramp Down Uncertainty Award Allocation
1592	Enforcement Protocol (EP) Penalty Allocation Payment

BP-24 Potential Codes to be Added

Issue: Uncertainties Around Necessity to Sub-Allocate

Code Number	Description
4564	GMC EIM Transaction Charge (Schedule 1A NEVP)
4575	GMC Scheduling Coordinator ID Charge
4989	Daily Rounding Adjustment
4999	Monthly Rounding Adjustment
8989	Daily Neutrality Adjustment
8999	Monthly Neutrality Adjustment