EIM CONGESTION RENT MARCH 11, 2020

Lindsey Schlekeway







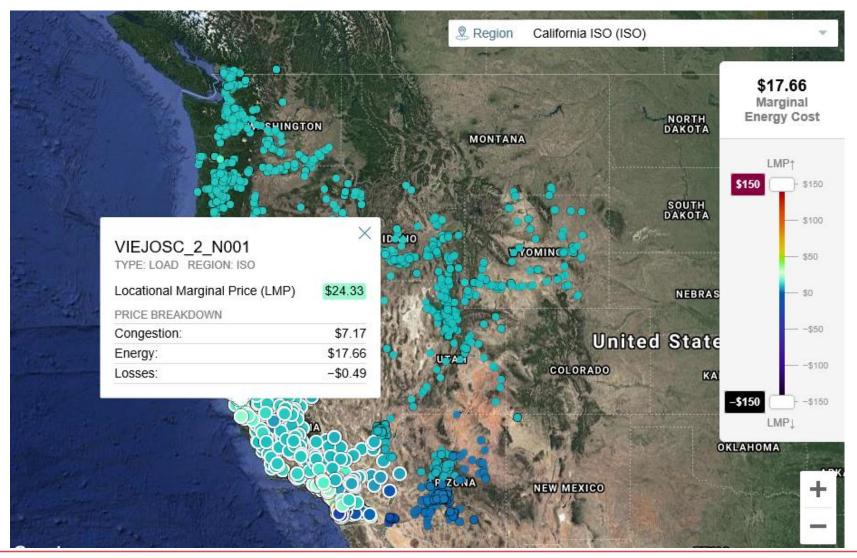






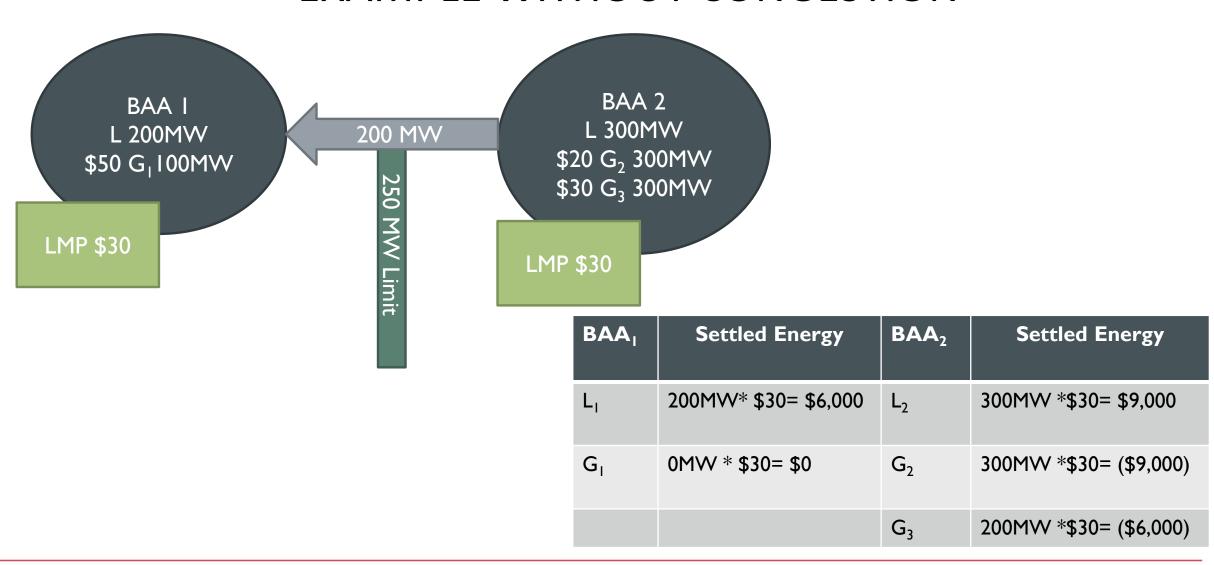


MARGINAL COST OF CONGESTION (MCC)

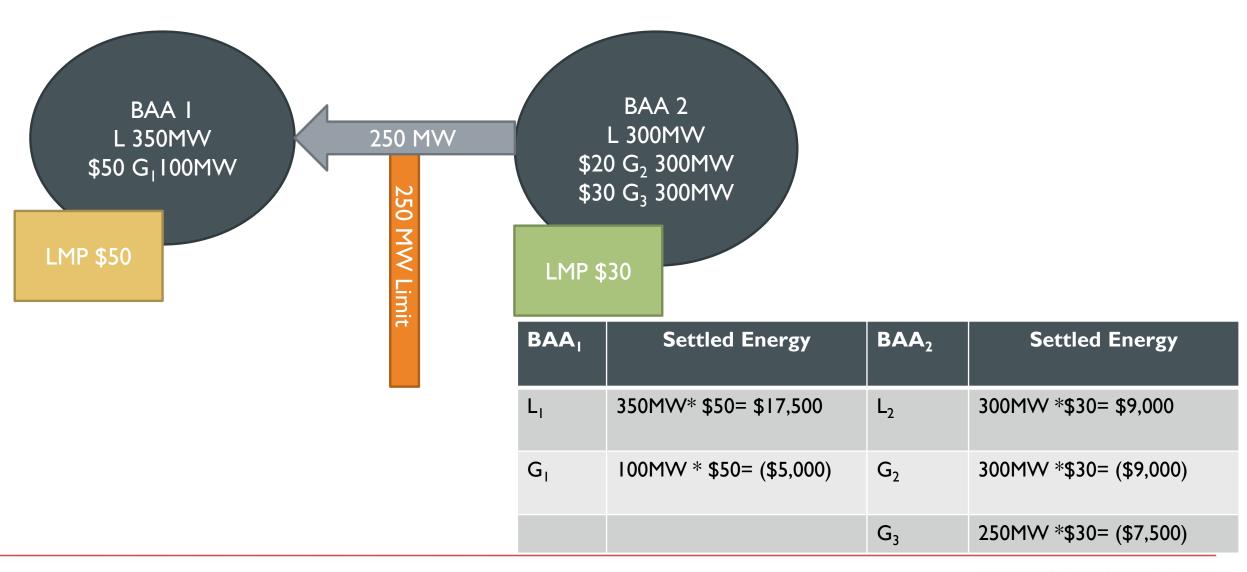


- Definition of MCC: A component of the LMP at the Pnode that accounts for congestion¹
- EIM Transfer
 Congestion is reflected
 in the MCC of the LMP
 to account for
 allocation of revenues
 at the interties.

EXAMPLE WITHOUT CONGESTION



EXAMPLE WITH CONGESTION



CONGESTION REVENUE

BAA	Settled Energy	BAA ₂	Settled Energy
L	350MW * \$50= \$17,500	L ₂	300MW * \$30= \$9,000
Gı	100MW * \$50= (\$5,000)	G ₂	300MW * \$30= (\$9,000)
		G_3	250MW * \$30= (\$7,500)
BAA _{TOTAL}	\$12,500	BAA _{TOTAL}	(\$7,500)
Congestion Rev.	\$12,500-\$7,500 = \$5,000		BAA I L 350MV
			\$50 G ₁ 100MV
			LMP \$50

CURRENT EIM CONGESTION ALLOCATION

- Congestion Revenue flows to a neutrality account called Real-Time Congestion Offset
- Congestion that occurs within a BAA is allocated to the EIM Entity of that BAA
- Congestion that occurs between EIM Entities is typically split 50/50; However, there are exceptions.
- Congestion Revenue is collected on all constraints:
 - Intertie Scheduling Limit
 - EIM Transfer Limit
 - Rate of Change Constraints

CURRENT EIM CONGESTION ALLOCATION

- **External Interties:** Interface between an EIM Entity and a Non-EIM Entity²
 - A Non-EIM Entity can enforce limits on the incremental rate of change between FMM and RTD or EIM flow limits
 - I 00% of the congestion rent is applied to the EIM Entity that is interconnected
- Internal Interties: Interface between two EIM Entities or wheeling through a non-EIM Entity²
 - Interchange Scheduling Limit (ISL) is equal to or less than the EIM Transfer Limit, then the congestion rent is split 50/50
 - ISL is greater than the total EIM Transfer Limit
 - Congestion caused by the EIM Transfer Limit will be allocated 100% to the EIM Entity that provided the transmission to the Intertie Scheduling Point
 - Congestion caused by the ISL will be allocated 100% to the EIM Entity managing the Intertie Scheduling Point

Additional Exceptions:

100% of the Congestion Revenue is allocated to the EIM Entity that is constrained due to a Down Flexible Ramp Sufficiency Test Failure, Contingency Event, or an Isolated BAA Event²

REFERENCES

- I. CAISO. November 20, 2019. "Business Practice Manual For the Energy Imbalance Market".
 https://bpmcm.caiso.com/BPM%20Document%20Library/Energy%20Imbalance%20Market_BPM_for_Energy%20Imbalance%20Market_V18_clean.docx
- CAISO. September 8, 2015. "Energy Imbalance Market Year 1 Enhancements Phase 2: Draft Final Proposal".
 http://www.caiso.com/Documents/DraftFinalProposal_EnergyImbalanceMarketYear1Enhancements_Phase2.pdf.