

Allocation of Balancing Congestion Dollars in Package 10

By AEP

2/12/2015

Allocation Concept and Principle

- Concept

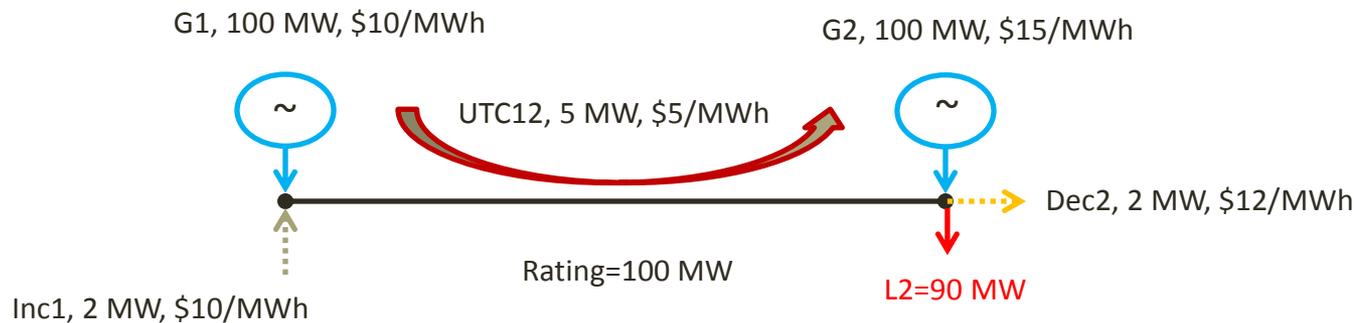
Balancing congestion dollars resulted from balancing settlement stay in balancing settlement.

- Principle

- Market participants who have un-instructed deviations from their day-ahead awards pay for balancing congestion dollars.
- Un-instructed deviations include real-time load/generation/export/import deviation MWs that are not due to PJM's instructions + Inc MWs + Dec MWs+ UTC MWs.

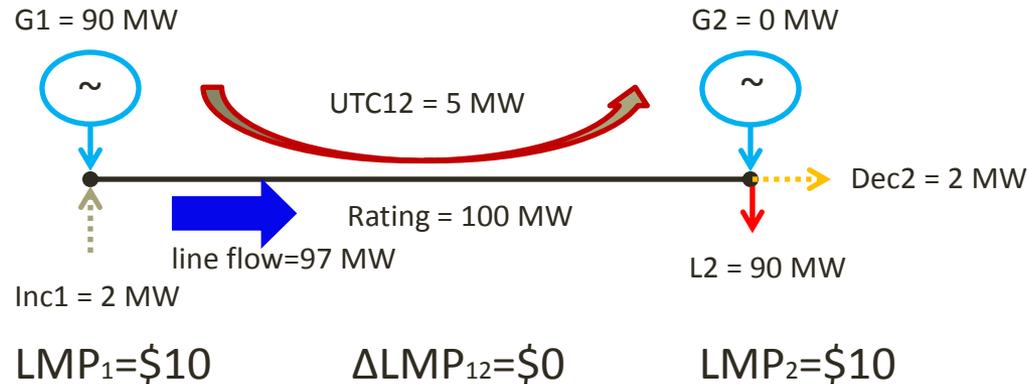
Example - Bids

	G1	G2	L2	UTC12	Inc1	Dec2
Bid MWs	100	100	90	5	2	2
Bid Dollars	\$10	\$15		\$5	\$10	\$12



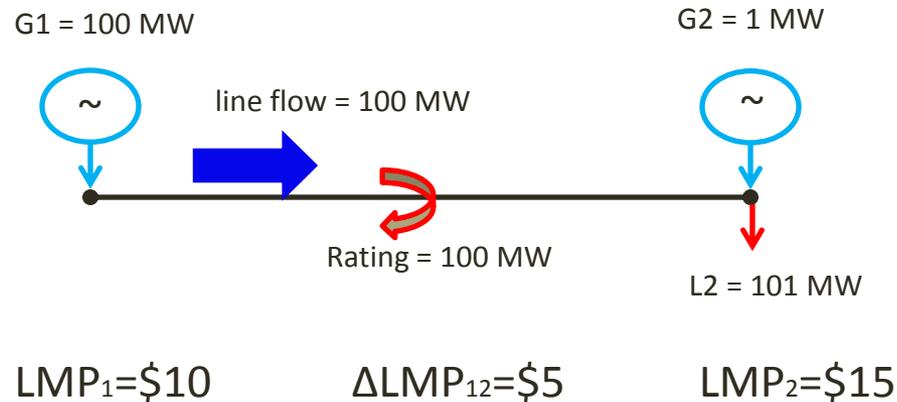
Example – DA Market

Day-ahead Settlement	G1	G2	L2	UTC12	INC1	DEC2
Cleared MWs	(90)	0	90	5	(2)	2
DA LMP1	\$10				\$10	
DA LMP2		\$10	\$10			\$10
Δ DA LMP12				\$0		
Payment	(\$900)	\$0	\$900	\$0	(\$20)	\$20
Total payment	\$0					



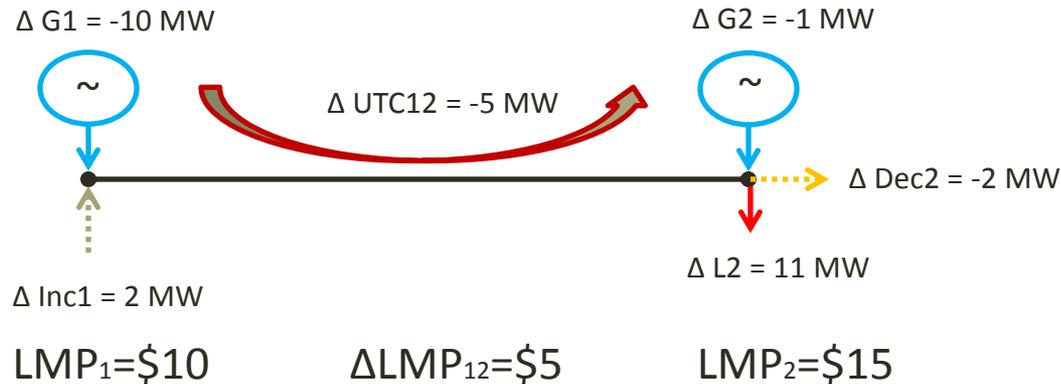
Example – RT Market

Real-time Market	G1*	G2*	L2	UTC12	INC1	DEC2
Real-time MWs	(100)	(1)	101	0	0	0
RT LMP1	\$10				\$10	
RT LMP2		\$15	\$15			\$15
Δ RT LMP12				\$5		
* G1 and G2 dispatched under PJM's instruction						



Example – Balancing Settlement

Balancing Settlement	G1	G2	L2	UTC12	INC1	DEC2
Δ MWs	(10)	(1)	11	(5)	2	(2)
RT LMP1	\$10				\$10	
RT LMP2		\$15	\$15			\$15
Δ RT LMP12				\$5		
Payment	(\$100)	(\$15)	\$165	(\$25)	\$20	(\$30)
Total payment	\$15					



Example – Allocation of Balancing Congestion Dollars

	G1	G2	L2	UTC12	INC1	DEC2
Absolute Value (un-instructed Δ MWs)	0	0	11	5	2	2
Allocation of Balancing Congestion	\$0	\$0	\$8	\$4	\$2	\$2
Total payment	\$15					

