



Review of High Balancing and Operating Reserve (BOR)

Energy Market Uplift
September 17, 2013

- January 26, 2013 (Saturday)
 - Biggest hitters \$1,433,228
- January 27, 2013 (Sunday)
 - Biggest hitters \$2,161,439
- Load was in the 107,000 range
- Both days
 - Local Contingency
 - Local Voltage Support

- April 2, 2013 (Tuesday)
 - Biggest hitters \$774,490
- April 3, 2013 (Wednesday)
 - Biggest hitters \$1,926,173
- Load was in the 100,000 range
- Both days
 - Two different transformer outages
 - Local Contingencies

- High Economic Minimums
 - Relieved constraints
 - Set price for only a few intervals
- Minimum Down Times contribute
- Balancing and Operating Reserve Cost Allocation (BORCA) chart
 - Combination of RTO and East Deviations

- High load does not necessarily equate to high BOR
- Issues were related to local constraints
- Problems were masked by high economic minimums