

RTOs/ISOs - Selected Posting Materials



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- **Commitment Process Related:**
 - Reliability Analysis Schedule MW (Markets Gateway)
 - Units logged by dispatch during the Reliability Assessment Commitment (RAC)
 - Categories: Reason, Aggregated Economic Max Total
 - Totals are for RTO by reason category
 - Totals = Daily Economic maximum of all units scheduled
 - Includes units logged from 14:15 (close of re-bid period) to midnight
 - Data is retained / displayed up to 10 days
 - Day-Ahead Schedule MW (Markets Gateway)
 - Units logged by Day-Ahead (DA)
 - Data is retained/displayed up to 10 days
 - Categories: Reason, Aggregated Economic Max MW Total

- **Uplift Related:**
 - Energy Market Uplift Data
 - Daily uplift credits by zone by day
 - Frequency: Monthly

 - PJM Markets Report
 - Monthly aggregated by categories: Day-Ahead Operating Reserve, Balancing Operating Reserve, Reactive, Black Start, Lost Opportunity Cost
 - Frequency: Monthly

- **Commitment Process Related:**

- **Operational Announcements**

- Dispatcher Notices, Committed for Reliability, 15 Minute Scheduling Disabled, Market Monitor Notices, Market Pricing Notices
- Frequency: As updates occur

- **Uplift Related:**

- **Operations Performance Metrics**

- Monthly Power Supplier Uplift components
- Frequency: Monthly



New York ISO Operational Announcements Example

Dispatcher Notices	Message
20-Dec-2016 06:07:05	ISO REQUESTS GILBOA__2 OUT OF MERIT. COMMITTED FOR ISO RELIABILITY AT START TIME 12/20/2016 06:00 FOR SCHEDULED TRANSMISSION OUTAGE.

Committed for Reliability	Message
20-Dec-2016 05:04:16	12/20/2016 05:04:16 Generator: Arthur_Kill_2 requested for Day Ahead Reliability in DAM market for 12/21/2016 00 to 12/21/2016 23 ARR:37

- **Commitment Process Related:**
 - **Real-Time Revenue Sufficiency Guarantee Commitments**
 - Market Interval, Commitment Reason (Constraint name), Total Economic Max, Number of Resources
 - Frequency: Every five minutes
- **Uplift Related:**
 - **Revenue Sufficiency Guarantee**
 - Market-wide settlement results of Day Ahead (DA) and Real Time (RT) RSG Make Whole Payments
 - Frequency: Week lag and includes data from up to 13 months in history



MISO Real-Time RGD Example

Market Interval	COMMIT REASON	TOTAL ECON MAX	NUM RESOURCES
2017-02-14T09:40:00	Fncy_Pnt_500_230_AT 1_Xmfr_FLO_Wbre +++ EE50144	411	3 or less

- **Uplift Related:**
 - **Net Commitment Period Compensation “Make Whole”**
 - Day-Ahead and Real-Time categories with breakdown
 - Further breakdown of Real-Time is provided (RT Out of Merit, RT Cancelled Start, RT Hourly Shortfall, RT Posturing)
 - Reliability payments by Reliability Region
 - Frequency: One week lag



ISO New England Day-Ahead & Real-Time NCPC Example

Date	1st Contingency Reliability Cost Payments (Internal Locations)	1st Contingency Reliability Cost Payments (External Locations)	2nd Contingency Reliability Cost Payments	Voltage Reliability Cost Payments	Distribution Reliability Cost Payments	Generator Performance Audit
1-Jan-16	\$10,163	\$0	\$0	\$0	\$0	N/A
2-Jan-16	\$28,009	\$0	\$0	\$0	\$0	N/A
3-Jan-16	\$10,912	\$246	\$0	\$0	\$0	N/A
4-Jan-16	\$76,501	\$0	\$0	\$0	\$0	N/A

- **Commitment Process Related:**
 - **Daily Exceptional Dispatch Report**
 - Provides Market Participants with data on the volume of exceptional dispatches initiated
 - Provides exceptional dispatch volume in Megawatt Hours (MWh) and the associated reason
 - Frequency: Three day lag

TRADE_DATE	REASON	OTHER_REASON	MWH
12FEB2017:00:00:00	Operating Procedure Number and Constraint	OP 6310 PATH 15 (MIDWAY-LOS BANOS)	89.57
12FEB2017:00:00:00	Operating Procedure Number and Constraint	OP 7110 (HUMBOLDT AREA)	127.08
12FEB2017:00:00:00	Planned Transmission Outage and Constraint	SYSTEM OPERATING LIMIT - PLANNED OMS WORK	40.18
12FEB2017:00:00:00	Software Limitation	N/A	251.92
12FEB2017:00:00:00	Unplanned Outage	N/A	1.79
12FEB2017:00:00:00	Voltage Support	N/A	1507.96

- PJM – Uplift Data
 - <http://www.pjm.com/markets-and-operations/energy/uplift-data.aspx>
- PJM – PJM Markets Report
 - <http://www.pjm.com/~media/committees-groups/committees/mc/20170123-webinar/20170123-item-10a-markets-report.ashx>
- NYISO – Operational Announcements
 - http://www.nyiso.com/public/markets_operations/market_data/reports_info/index.jsp
- NYISO – Management Committee
 - http://www.nyiso.com/public/markets_operations/committees/meeting_materials/index.jsp?com=mc

- MSO- Real-Time RSG Commitments
 - <https://www.misoenergy.org/MarketsOperations/RealTimeMarketData/Pages/Real-TimeRSGCommitments.aspx>
- MISO - Revenue Sufficiency Guarantee
 - <https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx>
- ISO NE - Net Commitment Period Compensation
 - <https://www.iso-ne.com/markets-operations/market-performance/performance-reports>
- CAISO – Daily Exceptional Dispatch Report
 - <http://www.caiso.com/market/Pages/DailyExceptionalDispatch/Default.aspx>
- CAISO – Operating procedures guide rules and policy implementation
 - <https://www.caiso.com/rules/Pages/OperatingProcedures/Default.aspx>