

MSRS Reports Impacted by Sub-hourly Settlements



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<u>New Report Formats to display current data on a sub-hourly basis</u>
These reports will be changed to report data on a 5 minute interval basis. All existing data fields on the report will remain.
CT Lost Opportunity Cost Forfeiture
Emergency Energy Transactions
Explicit Congestion Charges
Explicit Loss Charges
Load Response Regulation Credits
Load Response Tier 1 Credits
Load Response Tier 2 Credits
Non-Synchronized Reserve Credits
Operating Reserve for Load Response Resource Deviations
Operating Reserve Lost Opportunity Cost Credits
Operating Reserve Lost Opportunity Cost for Pump Hydro Credits
Preliminary Non-Synchronized Reserve Summary
Preliminary Regulation Summary
Preliminary Synchronized Reserve Summary
Reactive Services Credits
Regulation Credits
Synchronized Reserve Credit Summary
Synchronized Reserve Tier 1 Credits
Synchronized Reserve Tier 2 Credits
Synchronous Condensing Credits

<u>New Report Formats that change data elements from current format</u>	
These reports will have new formats that change data elements in addition to reporting data on a 5 minute interval basis. Specific changes are noted.	
<u>Report</u>	<u>Update</u>
Day-Ahead Generator LMP Charges	New report format of Generator LMP Charges will only display Day-ahead values
Day-Ahead Operating Reserve Generator Credit Details	New report format of Operating Reserve Generator Credit Details will only display Day-ahead values
Day-Ahead Operating Reserves for Load Response Credit	New report format of Operating Reserves for Load Response Credit will only display Day-ahead values
Emergency Energy Charge and Credit Allocation Summary	New report format will break interchange columns up into columns for Injections and Withdrawals and report allocations on sub-hourly basis
Emergency Load Response Allocation Summary	New report format will break interchange columns up into columns for Injections and Withdrawals
FERC EQR	Adding in 5 and 15 min increment values, updates to transaction begin date and transaction end date to store 5 minute values, updates to point of delivery specific location for more granular data
Non-Synchronized Reserve Summary	New report format will remove NSRMCP, NSRMCP Credits will be the sum of credits from a sub-hourly basis
Regulation Summary	New report format will remove regulation market clearing prices, will add in total amounts of RMCCP and RMPCP credits for allocation
Spot Market Energy Charge Summary	New report format will display Withdrawal and Injection energy instead of Net Interchange. Report will no longer display RT Energy Price.
Synchronized Reserve Tier 2 Charge Summary	New report format will remove synchronized reserve market clearing price, will add in total synchronized reserve T2 credits for the hour interval

<u>New Reports</u>	
New reports that will be created in support of sub-hourly settlements	
<u>Report</u>	<u>Function</u>
Balancing Generator LMP Charges	New report to display balancing injection and withdrawal values and charges for generators on a sub-hourly basis
Balancing Operating Reserve Generator Credit Details	New report to display all supporting balancing generator credit data details on a sub-hourly basis
Balancing Operating Reserves for Load Response Credit	New report to display all supporting balancing load response resource information for operating reserve credit on sub-hourly basis
Balancing Operating Reserve Transaction Credits	New report to display balancing operating reserves for transactions on a sub-hourly basis
Day-Ahead Economic Load Response Credits	New report to separate Day-ahead Economic Load Response Credits from Real-time Economic Load Response Credits
Energy Market and Congestion Loss Charge Details	New report that displays DA and RT spot market energy charges, implicit congestion charges, and implicit loss charges on a sub-hourly basis
Operating Reserve Deviation Summary - 5 min	New report to display generator deviations and supporting injection and withdrawal values on a sub-hourly basis
Operating Reserve Generator Deviations - 5 min	New report to display generator deviation values on a sub-hourly basis, will only display Real-time values
Real-time Economic Load Response Credit	New report to display Real-time Economic Load Response Credits on a sub-hourly basis

<u>Terminated Reports</u>	
These reports will be terminated. Functionality will be covered on a different report or is no longer needed	
<u>Report</u>	<u>Update</u>
Implicit Congestion and Loss Charge Details	Report format will terminate 2/1/2018. Implicit congestion and implicit loss charges will be reported on a sub-hourly basis on the Energy Market and Congestion Loss Charge Details report

- For sub-hourly settlements MSRS report updates, as new reports and new report formats are created, PJM will stop creating new Online/Crystal Report files for these reports that are updated or created.
- MSRS Reports that are not affected by sub-hourly settlements will continue to support Online/Crystal Report files.



Crystal Report download statistics

Total Processed MSRS Report Downloads May 2017	Total Crystal Report Views May 2017	Crystal Report Percentage of Total Downloads
20822872	10000	$10000/20822872 * 100\% = 0.048\%$

Report	Online View Count
Weekly Billing Statement - Online and PDF	2576
Monthly Billing Statement - Online and PDF	1133
Month-to-Date Billing Summary - Online	1123
Weekly Month-to-Date Billing Summary - Online	179
Weekly Billed Report Versions	38
Monthly Billing Statement Recipients	37
Billing Line Item Adjustment Summary	26
Weekly Billing Statement Recipients	16
Billing Line Item Transfer Summary	8
Net Bill Report	8
Total	5144