



Schedule 9-PSI Settlement Update

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Market Settlements Development
Market Settlements Subcommittee
December 13th, 2022

- Effective, January 1, 2022, PJM implemented the provisional approved FERC Docket ER22-26
 - Docket set for Settlement hearings
 - Settlement reached and filed on March 31, 2022
 - Settlement judge certified uncontested offer on May 3, 2022
- November 9, 2022, FERC approved ER22-26 in full
- PJM Compliance Filing submitted December 8, 2022 requesting revisions to be effective February 1, 2023
 - Settlement updates to take effect starting February 1, 2023
- Settlement filed was limited in scope
 - Refunds back to January 1, 2022 are not applicable
 - Modifications to 9-PJMSettlement rate

Prior to January
1, 2022

- Stated Rate

January 1, 2022

- Formula Rate
- Rate = Actual Monthly Costs / Number of invoices in each month
- Charge = Rate * number of invoices issued in a month to each account

February 1,
2023

- Formula Rate
- Rate, Component 1 = (Actual Monthly Costs * 0.68) / Number of invoices in each month
- Charge, Component 1 = Rate * number of invoices issued in a month to each account
- Rate, Component 2 = six different rates will be calculated
- Charge, Component 2 = applied using Schedule 9-1 through Schedule 9-4 determinants

- How does PJM determine the Invoice Count?
 - PJM issues weekly and monthly bills within each calendar month
 - Count the number of total weekly and monthly bill each month (calendar not activity month)
 - Adjustments to a prior month BLI will trigger a monthly bill, therefore, an Invoice Count will be triggered and Schedule 9-PSI will be charged
 - Activity must trigger an Invoice Count, being charged only for Schedule 9-PSI does not trigger an Invoice Count



9-PSI, Component 2 breakdown

	Component 2a (Schedule 9-1)	Component 2b (Schedule 9-2, Component 1)	Component 2c (Schedule 9-2, Component 2)	Component 2d (Schedule 9-3, Component 1)	Component 2e (Schedule 9-3, Component 2)	Component 2f (Schedule 9-4)
Rate Numerator	PSI Actual Costs * 0.32 * 0.25	PSI Actual Costs * 0.32 * 0.25 * 0.6	PSI Actual Costs * 0.32 * 0.25 * 0.4	PSI Actual Costs * 0.32 * 0.25 * 0.987	PSI Actual Costs * 0.32 * 0.25 * 0.013	PSI Actual Costs * 0.32 * 0.25
Rate Denominator	Sum of Transmission Customer's actual hourly transmission use during the month (MWh)	Sum of FTR holder's hourly FTR MWs for each hour of month that FTR is in effect	Total number of hours associated with all bids to buy FTR Obligations + (5 * number of hours associated with all bids to buy FTR Options)	Total MWhs from Transmission Customers, Generation Providers using PJM transmission system and accepted sell offer/buy bids	Total number of bid/offer segments submitted by all Market Participant	Sum of LSEs monthly Accounted-for Obligations during the month (including FRRs) and Capacity Resource Owner's Unforced Capacity (MWd)
Charge Usage	Customer's Total Transmission Use for Month	Total FTR MWh	Number of hours in all bids to buy FTR Obligations + (5 * number of hours in all bids to buy FTR Options)	Transmission Customer MWh Usage + Generation Provider MWh Usage + Market Participant cleared bid/offer MWh	Market Participant's Day-ahead Energy Market Bid/Offer Segments (including rebidding period)	LSE = Total Daily Unforced Capacity Obligation Capacity Resources = Unforced Capacity MWs
Recon	Yes	No	No	Yes	No	No

- Archived as of May 1, 2022
 - Schedule 9 and 10 Charge Details
- Proposed changes with FERC approval of Settlement
 - Schedule 9 and 10 Charge Summary
 - Schedule 9 and 10 Daily Usage Details
 - Schedule 9 and 10 Load Reconciliation Charge Summary



Schedule 9 and 10 Charge Summary

- Updates effective February 1, 2023
- Add additional rows for 9-PSI, Component 2 to current report
- No report format changes; update column 4001.61 to handle 3 decimals

4000.01	4000.02	4000.03	4001.61	4000.74	3012.31	3012.27	3012.29	4000.07
Customer ID	Customer Code	Month	Schedule 9-10 ID	Schedule	Total Monthly Usage	Rate	Charge (\$)	Version
1	Text	Month, YYYY	1301	9-1: Control Area Administration	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1302.1	9-2: Financial Transmission Rights - Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1302.2	9-2: Financial Transmission Rights - Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1303.1	9-3: Market Support - Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1303.2	9-3: Market Support - Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1305	9-4: Capacity Resource and Obligation Management	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.1	9-PSI: PJM Settlement, Inc. - Per Invoice	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.21	9-PSI: PJM Settlement, Inc. - 9-1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.221	9-PSI: PJM Settlement, Inc. - 9-2 Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.222	9-PSI: PJM Settlement, Inc. - 9-2 Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.231	9-PSI: PJM Settlement, Inc. - 9-3 Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.232	9-PSI: PJM Settlement, Inc. - 9-3 Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1313.24	9-PSI: PJM Settlement, Inc. - 9-4	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1319	9-CAPS: Consumer Advocates of PJM States, Inc. Funding	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1315	9-FERC: FERC Annual Charge Recovery	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1314.1	9-MMU: Market Monitoring Unit (MMU) Funding - Component 1	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1314.2	9-MMU: Market Monitoring Unit (MMU) Funding - Component 2	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1316	9-OPSI: Organization of PJM States, Inc. Funding	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1317	10-NERC: North American Electric Reliability Corporation Charge	1.123	1.123	1.123	Text
1	Text	Month, YYYY	1318	10-RFC: Reliability First Corporation Charge	1.123	1.123	1.123	Text



Schedule 9 and 10 Daily Usage Details

- Updates effective February 1, 2023
- Add additional rows for 9-PSI, Component 2 to current report
- No report format changes; update column 4001.61 to handle 3 decimals

4000.01	4000.02	4000.04	4001.61	4000.74	3004.11	3004.12	3004.13	3004.14	3004.15	3004.16	3004.17	3004.18	3004.19	3004.2	3004.21	3004.22	3004.23	3004.24	3004.25	3004.26	3004.27	3004.28	4000.07
Customer ID	Customer Code	Date	Schedule 9-10 ID	Schedule	RT Load with Losses (MWh)	RT PTP Transmission Use (MWh)	Financial Transmission Rights (MW)	FTR Bid Obligations	FTR Bid Options X5	DA Cleared Increment Offers (MWh)	DA Cleared Decrement Bids (MWh)	DA Cleared Up To Congestion Energy (MWh)	RT Generation (MWh)	RT Network Import Use (MWh)	RT Spot Import Use (MWh)	Transmission Use Excluding Wheel-Throughs (MWh)	Generation Offer Segments	DA Market Bid/Offer Segments	Unforced Capacity Including FRR (MW)	UCAP Obligation (MW)	RT Schedule 10 Load with Losses (MWh)	Non-Dispatch Charging Energy (MWh)	Version
1	Text	MM/DD/YYYY	1301	9-1: Control Area Administration	1.123	1.123																	Text
1	Text	MM/DD/YYYY	1302.1	9-2: Financial Transmission Rights - Component 1			1.123																Text
1	Text	MM/DD/YYYY	1302.2	9-2: Financial Transmission Rights - Component 2				1.123	1.123														Text
1	Text	MM/DD/YYYY	1303.1	9-3: Market Support - Component 1	1.123					1.123	1.123	1.123	1.123	1.123	1.123	1.123						1.123	Text
1	Text	MM/DD/YYYY	1303.2	9-3: Market Support - Component 2													1.123	1.123					Text
1	Text	MM/DD/YYYY	1305	9-4: Capacity Resource and Obligation Management															1.123	1.123			Text
1	Text	MM/DD/YYYY	1313.21	9-PSI: PJM Settlement, Inc. - 9-1	1.123	1.123																	Text
1	Text	MM/DD/YYYY	1313.221	9-PSI: PJM Settlement, Inc. - 9-2 Component 1			1.123																Text
1	Text	MM/DD/YYYY	1313.222	9-PSI: PJM Settlement, Inc. - 9-2 Component 2				1.123	1.123														Text
1	Text	MM/DD/YYYY	1313.231	9-PSI: PJM Settlement, Inc. - 9-3 Component 1	1.123					1.123	1.123	1.123	1.123	1.123	1.123	1.123						1.123	Text
1	Text	MM/DD/YYYY	1313.232	9-PSI: PJM Settlement, Inc. - 9-3 Component 2													1.123	1.123					Text
1	Text	MM/DD/YYYY	1313.24	9-PSI: PJM Settlement, Inc. - 9-4															1.123	1.123			Text
1	Text	MM/DD/YYYY	1314.1	9-MMU: Market Monitoring Unit (MMU) Funding - Component 1	1.123					1.123	1.123	1.123	1.123	1.123	1.123	1.123						1.123	Text
1	Text	MM/DD/YYYY	1314.2	9-MMU: Market Monitoring Unit (MMU) Funding - Component 2													1.123	1.123					Text
1	Text	MM/DD/YYYY	1315	9-FERC: FERC Annual Charge Recovery	1.123	1.123																1.123	Text
1	Text	MM/DD/YYYY	1316	9-OPSI: Organization of PJM States, Inc. Funding	1.123	1.123																1.123	Text
1	Text	MM/DD/YYYY	1317	10-NERC: North American Electric Reliability Corporation Charge																	1.123	1.123	Text
1	Text	MM/DD/YYYY	1318	10-RFC: Reliability First Corporation Charge																	1.123	1.123	Text
1	Text	MM/DD/YYYY	1319	9-CAPS: Consumer Advocates of PJM States, Inc. Funding	1.123																	1.123	Text



Schedule 9 & 10 Load Reconciliation Charge Summary

- Clean up current Schedule 9 & 10 Load recon report
 - Remove ‘Refund’ and AC2 columns

4000.01	4000.02	4000.03	4000.04	3000.66	1440.11	1440.01	1441.11	1441.01	1440.12	1440.02	1441.12	1441.02	1442.11	1442.01	1444.11	1444.01	1445.11	1445.01	1446.11	1446.01	1447.11	1447.12	1447.01	1448.11	1448.12	1448.01	1449.11	1449.01	4000.07
Customer ID	Customer Code	Billing Month	Date	Schedule 9 Load with Losses Reconciliation Energy (MWh)	Schedule 9-1 Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-1 Load Reconciliation Charge (\$)	Schedule 9-1 Refund Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-1 Refund Load Reconciliation Charge (\$)	Schedule 9-3 Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-3 Load Reconciliation Charge (\$)	Schedule 9-3 Refund Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-3 Refund Load Reconciliation Charge (\$)	Schedule 9-6 AC2 Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-6 AC2 Load Reconciliation Charge (\$)	Schedule 9-MMU Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-MMU Load Reconciliation Charge (\$)	Schedule 9-FERC Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-FERC Load Reconciliation Charge (\$)	Schedule 9-OPSI Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-OPSI Load Reconciliation Charge (\$)	Schedule 10-NERC Load with Losses Reconciliation Energy (MWh)	Schedule 10-NERC Load Reconciliation Billing Determinant (\$/MWh)	Schedule 10-NERC Load Reconciliation Charge (\$)	Schedule 10-RFC Load with Losses Reconciliation Energy (MWh)	Schedule 10-RFC Load Reconciliation Billing Determinant (\$/MWh)	Schedule 10-RFC Load Reconciliation Charge (\$)	Schedule 9-CAPS Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-CAPS Load Reconciliation Charge (\$)	Version

- Add 9-PSI: Schedule 9-1 and 9- PSI: Schedule 9-3 Columns

4000.01	4000.02	4000.03	4000.04	3000.66	1440.11	1440.01	1440.12	1440.02	1443.11	1443.01	1443.12	1443.02	1444.11	1444.01	1445.11	1445.01	1446.11	1446.01	1447.11	1447.12	1447.01	1448.11	1448.12	1448.01	1449.11	1449.01	4000.07
Customer ID	Customer Code	Billing Month	Date	Schedule 9 Load with Losses Reconciliation Energy (MWh)	Schedule 9-1 Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-1 Load Reconciliation Charge (\$)	Schedule 9-3 Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-3 Load Reconciliation Charge (\$)	Schedule 9-PSI (9-1) Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-PSI (9-1) Load Reconciliation Charge (\$)	Schedule 9-PSI (9-3) Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-PSI (9-3) Load Reconciliation Charge (\$)	Schedule 9-MMU Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-MMU Load Reconciliation Charge (\$)	Schedule 9-FERC Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-FERC Load Reconciliation Charge (\$)	Schedule 9-OPSI Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-OPSI Load Reconciliation Charge (\$)	Schedule 10-NERC Load with Losses Reconciliation Energy (MWh)	Schedule 10-NERC Load Reconciliation Billing Determinant (\$/MWh)	Schedule 10-NERC Load Reconciliation Charge (\$)	Schedule 10-RFC Load with Losses Reconciliation Energy (MWh)	Schedule 10-RFC Load Reconciliation Billing Determinant (\$/MWh)	Schedule 10-RFC Load Reconciliation Charge (\$)	Schedule 9-CAPS Load Reconciliation Billing Determinant (\$/MWh)	Schedule 9-CAPS Load Reconciliation Charge (\$)	Version

- Refund Load Reconciliation was applicable through May 2022 bill cycle
- Create new BLI 1443 – Load Reconciliation for PJM Settlement, Inc.
- Removal of Refund and AC2 columns and addition of 9-PSI columns will occur in same update effective April 1, 2023.

- PJM will work on CSV and XML formatting
- Manual 27 changes will be brought as conforming

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Schedule 9-PSI Settlement Update



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