



Accounting for Transmission Losses

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Objective

Account for transmission losses consistently and equitably throughout the ATC footprint according to the requirements of the MISO Tariff and business practice manuals.

Load Reporting

It is the responsibility of each Network Customer to account for, and report monthly Network Loads for the purpose of transmission service billing (i.e., “Billing Network Load”) according to MISO tariff and business practice manuals.

Definitions

Local Balancing Authority (LBA) – Six LBA’s exist within the ATC transmission system: Alliant Energy – East (ALTE), Madison Gas & Electric (MGE), We Energies (WEC), We Energies – MIUP, Wisconsin Public Service Corporation (WPS), and Upper Peninsula Power Company (UPPC).

ATC System–Wide Transmission Loss Percentage: ATC will calculate a transmission loss percentage for its system based on the system’s coincidental monthly peak hour for each month of a 12-consecutive-month historical period and based on S105 values for withdrawals and transmission losses reported in the Residual Load Account Statement provided by MISO. This historical period for ATC includes the operating days between June 1st and May 31st and the loss percentage will be calculated in the following manner:

$$LP = \frac{\sum_{12} Losses_{SE}}{\left[\sum_{12} Withdrawals + \sum_{12} Losses_{SE} \right]}$$

Please refer to MISO Transmission Settlements Business Practices Manual BPM-012 and the MISO Tariff for additional details regarding the reporting of Network Load for the purpose of transmission service billing.

ATC will update the system loss percentage in September and it will be effective coincident with the update of ATC’s Attachment O – October 1 – and will remain in effect for 12 months. ATC’s annual loss percentage is also posted on the Transmission Owner Loss Data page of the MISO Website at:

<https://www.misoenergy.org/MarketsOperations/TransmissionSettlements/Pages/TransmissionOwnerLossData.aspx>.

The ATC system loss percentage will be used by LSEs to gross up their Network Loads that are reported monthly for transmission service billing (i.e., Billing Network Load).

LBA Transmission Loss Percentages: ATC will also annually calculate transmission loss percentages for each LBA in its system based on the same manner and during the same timeframe as the ATC system loss percentage is calculated. These loss percentages may be used by Network Customers that are also LBAs to net their Network Loads prior to applying the ATC system-wide loss percentage.

Calculating and Reporting Network Load

Network Customers should follow these steps to calculate their monthly Network Load values for transmission service billing purposes:

1. Determine Network Customer net Network Load (i.e., load that has not been adjusted for transmission losses.
2. Adjust for ATC system-wide transmission loss percentage to determine Billing Network Load value through this calculation:

Billing Network Load = (net Load) / (1-ATC system-wide transmission loss percentage)

3. Report Billing Network Load to ATC:

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