



Accounting for Transmission Losses

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Objective

Account for transmission losses consistently and equitably throughout the ATC footprint.

Load Reporting

It is the responsibility of each Network Customer to account for, and report monthly load data for settlement purposes under MISO & ATC tariff schedules. This document attempts to prescribe an interim methodology that Network Customers can utilize until MISO further defines its process.

Definitions

Local Balancing Authority (LBA) – 5 LBA's exist within the ATC Footprint: Alliant Energy, Madison Gas & Electric, We Energies, WPS, and UPPCo

Load Serving Entity (LSE) – 17 load serving entities (Network Customers) reside within the ATC Footprint, ACEC: Alliant Energy, BPMA, Cloverland, CWEC, Dairyland, Escanaba, Kiel, LWEC, Madison Gas & Electric, MPU, WI Rapids, RCEC, We Energies, WPPI Energy, WPS, & UPPCo.

LBA Transmission Loss Percentage: Load and Loss data is extracted from the MISO State Estimator for each Local Balancing Authority (LBA). Load and Loss values are taken at the 12 coincident ATC monthly peaks to resemble the methodology utilized when calculating load ratio share. The formula is $[\text{Loss} / (\text{Load} + \text{Loss})]$. WPPI Load and Losses are placed in the Local Balancing Authority (LBA) where the load physically resides. These numbers will be refreshed on an annual basis during the month of September.

ATC System-Wide Transmission Loss Percentage: Load and Loss data is extracted from the MISO State Estimator for the entire ATC footprint. Load and Loss values are taken at the 12 coincident ATC monthly peaks to resemble the methodology utilized when calculating load ratio share. The formula is $[\text{Loss} / (\text{Load} + \text{Loss})]$. This number will be refreshed on an annual basis during the month of September.

Gross Load = $\text{LSE Net Load} / (1 - \text{ATC System-Wide Transmission Loss Percentage})$

Load Reporting - Network Customer LSE's

1. Determine/Derive LSE Net Load Value
2. Adjust for ATC System Wide Transmission Loss Percentage to determine "Gross Load" value
 - a. $\text{Gross Load} = (\text{Net Load from Step 1}) / (1 - \text{ATC System-Wide Transmission Loss Percentage})$
 - b. 2013 ATC System-Wide Loss Percentage = .0193
3. Report Gross Load to ATC