

DRAFT

MSR-0021

Balancing Transmission Usage Charges – Wheel-Through Transactions

Wheel-through bilateral transactions are balanced for the difference between transmission service scheduled real-time and that scheduled day-ahead. The settlements are settled at LBMPs dependent upon whether the contract(s) are modified and who modifies the schedule.

SCD interval Settlement

SCD_POI_of_Losses:	SCD interval Point of Injection LBMP losses component
SCD_POI_Price_of_Congestion:	SCD interval Point of Injection LBMP congestion component
SCD_POW_of_Losses:	SCD interval Point of Withdrawal LBMP losses component
SCD_POW_Price_of_Congestion:	SCD interval Point of Withdrawal LBMP congestion component
BME_POI_of_Losses:	Hourly BME Point of Injection LBMP losses component
BME_POI_Price_of_Congestion:	Hourly BME Point of Injection LBMP congestion component
BME_POW_of_Losses:	Hourly BME Point of Withdrawal LBMP losses component
BME_POW_Price_of_Congestion:	Hourly BME Point of Withdrawal LBMP congestion component
DAM_WT_Trans_MWh:	Hourly DAM transaction energy <i>bid</i>
BME_WT_Trans_MWh:	Hourly BME transaction energy <i>bid</i>
SCD_WT_Trans_MWh:	SCD interval transaction energy that actually flowed
SCD_Interval	SCD interval length in seconds

SCD Interval Settlement Outputs

Bal_POI_of_Losses:	SCD interval Point of Injection LBMP losses component per settlement rules
Bal_POI_Price_of_Congestion:	SCD interval Point of Injection LBMP congestion component per settlement rules
Bal_POW_of_Losses:	SCD interval Point of Withdrawal LBMP losses component per settlement rules
Bal_POW_Price_of_Congestion:	SCD interval Point of Withdrawal LBMP congestion component per settlement rules
SCD_Bal_WT_Trans_MWh:	SCD interval transaction balancing energy
SCD_WT_Trans_Losses_\$:	SCD interval Transmission Usage Charge losses settlement
SCD_WT_Trans_Congestion_\$:	SCD interval Transmission Usage Charge congestion settlement

SCD Interval Settlement

Points of Injection and withdrawal are both NYISO external proxy buses.

$$\text{SCD_Bal_WT_Trans_MWh} = \{ \text{RT_WT_Trans_MWh} - \text{DAM_WT_Trans_MWh} \} \times \text{SCD_Interval} \div 3600 \text{ seconds}$$

Bal POI Price of Losses, Bal POI Price of Congestion, Bal POW Price of Losses, Bal POW Price of Congestion =

If the transaction is not curtailed, or is curtailed by NYISO or an external control area the “SCD...” price components are used for Bal_POI_Price_of_Losses, Bal_POI_Price_of_Congestion, Bal_POW_Price_of_Losses, & Bal_POW_Price_of_Congestion.

If the transaction is curtailed by the Market Participant the lesser of the “SCD...” and “BME...” price components are used for Bal_POI_Price_of_Losses, Bal_POI_Price_of_Congestion, Bal_POW_Price_of_Losses, & Bal_POW_Price_of_Congestion.

$$\text{SCD_WT_Trans_Losses_\$} = \text{SCD_Bal_WT_Trans_MWh} \times (\text{Bal_POW_Price_of_Losses} - \text{Bal_POI_Price_of_Losses}) \times \text{SCD_Interval} \div 3600 \text{ seconds}$$

$$\text{SCD_WT_Trans_Congestion_\$} = \text{SCD_Bal_WT_Trans_MWh} \times \{-1 \times (\text{Bal_POW_Price_of_Congestion} - \text{Bal_POI_Price_of_Congestion})\} \times \text{SCD_Interval} \div 3600 \text{ seconds}$$

Hourly interval Settlement

Hourly Settlement Inputs

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SCD_Bal_WT_Trans_MWh:	SCD interval transaction balancing energy
SCD_WT_Trans_Losses_\$:	SCD interval Transmission Usage Charge losses settlement
SCD_WT_Trans_Congestion_\$:	SCD interval Transmission Usage Charge congestion settlement

Hourly Settlement Outputs

Hr_RT_Bal_WT_Trans_MWh:	Hourly Balancing transaction energy
Hr_RT_WT_Trans_Losses_\$:	Hourly Balancing Transmission Usage Charge losses settlement
Hr_RT_WT_Trans_Congestion_\$:	Hourly Balancing Transmission Usage Charge congestion settlement
Hr_RT_WT_Trans_TUC_\$:	Total Hourly Balancing Transmission Usage Charge settlement

Hourly Settlement

$Hr_RT_Bal_WT_Trans_MWh = \sum\{SCD_Bal_WT_Trans_MWh\}$

$Hr_RT_WT_Trans_Losses_\$ = \sum\{SCD_WT_Trans_Losses_ \$\}$

$Hr_RT_WT_Trans_Congestion_ \$ = \sum\{SCD_WT_Trans_Congestion_ \$\}$

$Hr_RT_WT_Trans_TUC_ \$ = Hr_RT_WT_Trans_Losses_ \$ + Hr_RT_WT_Trans_Congestion_ \$$

Hourly Settlement Reported

Hr_RT_Bal_WT_Trans_MWh:	Hourly Advisory Statement Billing Code: 505
Hr_RT_WT_Trans_Losses_\$:	Hourly Advisory Statement Billing Code: 506
Hr_RT_WT_Trans_Congestion_\$:	Hourly Advisory Statement Billing Code: 507
Hr_RT_WT_Trans_TUC_\$:	Hourly Advisory Statement Billing Code: 508

Daily Settlement

Daily Settlement Inputs

Hr_RT_Bal_WT_Trans_MWh:	Hourly Balancing transaction energy
Hr_RT_WT_Trans_Losses_\$:	Hourly Balancing Transmission Usage Charge losses settlement
Hr_RT_WT_Trans_Congestion_\$:	Hourly Balancing Transmission Usage Charge congestion settlement
Hr_RT_WT_Trans_TUC_\$:	Total Hourly Balancing Transmission Usage Charge settlement

Daily Settlement Outputs

Daily_RT_Bal_WT_Trans_MWh:	Daily Balancing transaction energy scheduled
Daily_RT_WT_Trans_Losses_\$:	Daily Balancing Transmission Usage Charge losses settlement
Daily_RT_WT_Trans_Congestion_\$:	Daily Balancing Transmission Usage Charge congestion settlement
Daily_RT_WT_Trans_TUC_\$:	Total Daily Balancing Transmission Usage Charge settlement

Daily Settlement

$Daily_RT_Bal_WT_Trans_MWh = \sum\{Hr_RT_Bal_WT_Trans_MWh\}$

$Daily_RT_WT_Trans_Losses_ \$ = \sum\{Hr_RT_WT_Trans_Losses_ \$\}$

$Daily_RT_WT_Trans_Congestion_ \$ = \sum\{Hr_RT_WT_Trans_Congestion_ \$\}$

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Daily_RT_WT_Trans_TUC_\$ = $\sum\{\text{Hr_RT_WT_Trans_TUC_}\}$

Daily Settlement Reported

Daily_RT_WT_Trans_MWHR:	Daily Advisory Billing Statement – Billing Code 754
Daily_RT_WT_Trans_Losses_\$:	Daily Advisory Billing Statement – Billing Code 755
Daily_RT_WT_Trans_Congestion_\$:	Daily Advisory Billing Statement – Billing Code 756
Daily_RT_WT_Trans_TUC_\$:	Daily Advisory Billing Statement – Billing Code 757

Monthly Settlement

Monthly Settlement Inputs

Daily_RT_LBMP_Imp_Losses_\$:	Daily RT LBMP import energy - losses settlement [Billing Code 765]
Daily_RT_LBMP_Imp_Congestion_\$:	Daily RT LBMP import energy - congestion settlement [Billing Code 766]
Daily_RT_LBMP_Exp_Losses_\$:	Daily RT LBMP export energy - losses settlement [Billing Code 765]
Daily_RT_LBMP_Exp_Congestion_\$:	Daily RT LBMP export energy - congestion settlement [Billing Code 766]
Daily_RT_Rep_Losses_\$:	Daily RT LBMP replacement energy for curtailed imports [Billing Code 765]
Daily_RT_Rep_Congestion_\$:	Daily RT LBMP replacement energy for curtailed imports [Billing Code 766]
Daily_RT_Int_Trans_Losses_\$:	Daily RT Internal Transaction losses settlement [Billing Code 755]
Daily_RT_Int_Trans_Congestion_\$:	Daily RT Internal Transaction congestion settlement [Billing Code 756]
Daily_RT_Imp_Trans_Losses_\$:	Daily RT Import Transaction losses settlement [Billing Code 755]
Daily_RT_Imp_Trans_Congestion_\$:	Daily RT ImportTransaction congestion settlement [Billing Code 756]
Daily_RT_Exp_Trans_Losses_\$:	Daily RT Export Transaction losses settlement [Billing Code 755]
Daily_RT_Exp_Trans_Congestion_\$:	Daily RT Export Transaction congestion settlement [Billing Code 756]
Daily_RT_WT_Trans_Losses_\$:	Daily RT Wheel Transaction losses settlement [Billing Code 755]
Daily_RT_WT_Trans_Congestion_\$:	Daily RT Wheel Transaction congestion settlement [Billing Code 756]

Monthly Settlement Outputs

Monthly_DA_TUC_Losses_\$:	Monthly RT losses Transmission Usage Charge settlement
Monthly_DA_TUC_Congestion_\$:	Monthly RT congestion Transmission Usage Charge settlement

Monthly Settlement

Monthly_RT_TUC_Losses_\$ = $\sum\{\text{Daily_RT_LBMP_Imp_Losses_}\$ + \text{Daily_RT_LBMP_Exp_Losses_}\$ + \text{Daily_RT_Rep_Losses_}\$ + \text{Daily_RT_Imp_Trans_Losses_}\$ + \text{Daily_RT_Exp_Trans_Losses_}\$ + \text{Daily_RT_WT_Trans_Losses_}\}$

Monthly_RT_TUC_Congestion_\$ = $\sum\{\text{Daily_RT_LBMP_Imp_Congestion_}\$ + \text{Daily_RT_LBMP_Exp_Congestion_}\$ + \text{Daily_RT_Rep_Congestion_}\$ + \text{Daily_RT_Imp_Trans_Congestion_}\$ + \text{Daily_RT_Exp_Trans_Congestion_}\$ + \text{Daily_RT_WT_Trans_Congestion_}\}$