

DRAFT
MSR-0020
Balancing Transmission Usage Charges – NYCA Export Transactions

Non-LBMP export bilateral transactions are balanced for the difference between the transmission service scheduled in real-time and the transmission service 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_Exp_Trans_MWh:	Hourly DAM transaction energy <i>bid</i>
BME_Exp_Trans_MWh:	Hourly BME transaction energy <i>bid</i>
SCD_Exp_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_Exp_Trans_MWh:	SCD interval transaction balancing energy
SCD_Exp_Trans_Losses_\$:	SCD interval Transmission Usage Charge losses settlement
SCD_Exp_Trans_Congestion_\$:	SCD interval Transmission Usage Charge congestion settlement

SCD Interval Settlement

Points of Injection are NYCA generator buses and not the NYISO Reference Bus or external proxy buses.

Points of withdrawal are NYISO external proxy buses.

$$SCD_Bal_Exp_Trans_MWh = \{ RT_Exp_Trans_MWh - DAM_Exp_Trans_MWh \} \times SCD_Interval \div 3600 \text{ seconds}$$

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.

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

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

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Hourly interval Settlement

Hourly Settlement Inputs

SCD_Bal_Exp_Trans_MWh:	SCD interval transaction balancing energy
SCD_Exp_Trans_Losses_\$:	SCD interval Transmission Usage Charge losses settlement
SCD_Exp_Trans_Congestion_\$:	SCD interval Transmission Usage Charge congestion settlement

Hourly Settlement Outputs

Hr_RT_Bal_Exp_Trans_MWh:	Hourly Balancing transaction energy
Hr_RT_Exp_Trans_Losses_\$:	Hourly Balancing Transmission Usage Charge losses settlement
Hr_RT_Exp_Trans_Congestion_\$:	Hourly Balancing Transmission Usage Charge congestion settlement
Hr_RT_Exp_Trans_TUC_\$:	Total Hourly Balancing Transmission Usage Charge settlement

Hourly Settlement

$Hr_RT_Bal_Exp_Trans_MWh = \sum\{SCD_Bal_Exp_Trans_MWh\}$

$Hr_RT_Exp_Trans_Losses_\$ = \sum\{SCD_Exp_Trans_Losses_ \$\}$

$Hr_RT_Exp_Trans_Congestion_ \$ = \sum\{SCD_Exp_Trans_Congestion_ \$\}$

$Hr_RT_Exp_Trans_TUC_ \$ = Hr_RT_Exp_Trans_Losses_ \$ + Hr_RT_Exp_Trans_Congestion_ \$$

Hourly Settlement Reported

Hr_RT_Bal_Exp_Trans_MWh:	Hourly Advisory Statement Billing Code: 505
Hr_RT_Exp_Trans_Losses_\$:	Hourly Advisory Statement Billing Code: 506
Hr_RT_Exp_Trans_Congestion_\$:	Hourly Advisory Statement Billing Code: 507
Hr_RT_Exp_Trans_TUC_\$:	Hourly Advisory Statement Billing Code: 508

Daily Settlement

Daily Settlement Inputs

Hr_RT_Bal_Exp_Trans_MWh:	Hourly Balancing transaction energy
Hr_RT_Exp_Trans_Losses_\$:	Hourly Balancing Transmission Usage Charge losses settlement
Hr_RT_Exp_Trans_Congestion_\$:	Hourly Balancing Transmission Usage Charge congestion settlement
Hr_RT_Exp_Trans_TUC_\$:	Total Hourly Balancing Transmission Usage Charge settlement

Daily Settlement Outputs

Daily_RT_Bal_Exp_Trans_MWh:	Daily Balancing transaction energy scheduled
Daily_RT_Exp_Trans_Losses_\$:	Daily Balancing Transmission Usage Charge losses settlement
Daily_RT_Exp_Trans_Congestion_\$:	Daily Balancing Transmission Usage Charge congestion settlement
Daily_RT_Exp_Trans_TUC_\$:	Total Daily Balancing Transmission Usage Charge settlement

Daily Settlement

$Daily_RT_Bal_Exp_Trans_MWh = \sum\{Hr_RT_Bal_Exp_Trans_MWh\}$

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$$\text{Daily_RT_Exp_Trans_Losses_\$} = \sum\{\text{Hr_RT_Exp_Trans_Losses_\$}\}$$

$$\text{Daily_RT_Exp_Trans_Congestion_\$} = \sum\{\text{Hr_RT_Exp_Trans_Congestion_\$}\}$$

$$\text{Daily_RT_Exp_Trans_TUC_\$} = \sum\{\text{Hr_RT_Exp_Trans_TUC_\$}\}$$

Daily Settlement Reported

Daily_RT_Exp_Trans_MWHR:	Daily Advisory Billing Statement – Billing Code 754
Daily_RT_Exp_Trans_Losses_\$:	Daily Advisory Billing Statement – Billing Code 755
Daily_RT_Exp_Trans_Congestion_\$:	Daily Advisory Billing Statement – Billing Code 756
Daily_RT_Exp_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

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

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