

DRAFT

MSR-0019

Balancing Market Transmission Usage Charges – NYCA Import Transactions

Non-LBMP Import Bilateral transactions are settled upon bid capacity regardless of any difference between bid and scheduled service. Import bilaterals are treated like internal bilaterals and considered purely financial in nature; however, NYCA load will always be served reliably. In the event of curtailment by the NYISO, the scheduling party will be required to purchase replacement energy at the import's point of injection [POI] at the prevailing POI LBMP.

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
DAM_Imp_Trans_MWh:	Hourly DAM transaction energy <i>bid</i>
HAM_Imp_Trans_MWh:	Hourly HAM transaction energy <i>bid</i>
SCD_Interval	SCD interval length in seconds

SCD Interval Settlement Outputs

SCD_Bal_Imp_Trans_MWh:	SCD interval transaction balancing energy
SCD_Imp_Trans_Losses_\$:	SCD interval Transmission Usage Charge losses settlement
SCD_Imp_Trans_Congestion_\$:	SCD interval Transmission Usage Charge congestion settlement

SCD Interval Settlement

Point of Injection is a NYISO external proxy bus

Point of Withdrawal is not a NYISO external proxy bus or the NYISO Reference bus

$$\text{SCD_Bal_Imp_Trans_MWh} = \{\max(\text{DAM_Imp_Trans_MWh}, \text{HAM_Imp_Trans_MWh}) - \text{DAM_Imp_Trans_MWh}\} \times \text{SCD_Interval} \div 3600$$

seconds

$$\text{SCD_Imp_Trans_Losses_\$} = \text{SCD_Bal_Imp_Trans_MWh} \times (\text{SCD_POW_Price_of_Losses} - \text{SCD_POI_Price_of_Losses}) \times \text{SCD_Interval} \div 3600$$

seconds

$$\text{SCD_Imp_Trans_Congestion_\$} = \text{SCD_Bal_Imp_Trans_MWh} \times \{-1 \times (\text{SCD_POW_Price_of_Congestion} - \text{SCD_POI_Price_of_Congestion})\} \times \text{SCD_Interval} \div 3600$$

seconds

Hourly interval Settlement

Hourly Settlement Inputs

SCD_Bal_Imp_Trans_MWh:	SCD interval transaction balancing energy
SCD_Imp_Trans_Losses_\$:	SCD interval Transmission Usage Charge losses settlement
SCD_Imp_Trans_Congestion_\$:	SCD interval Transmission Usage Charge congestion settlement

Hourly Settlement Outputs

Hr_RT_Bal_Imp_Trans_MWh:	Hourly Balancing transaction energy
Hr_RT_Imp_Trans_Losses_\$:	Hourly Balancing Transmission Usage Charge losses settlement
Hr_RT_Imp_Trans_Congestion_\$:	Hourly Balancing Transmission Usage Charge congestion settlement
Hr_RT_Imp_Trans_TUC_\$:	Total Hourly Balancing Transmission Usage Charge settlement

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Hourly Settlement

$Hr_RT_Bal_Imp_Trans_MWh = \sum\{SCD_Bal_Imp_Trans_MWh\}$
 $Hr_RT_Imp_Trans_Losses_\$ = \sum\{SCD_Imp_Trans_Losses_ \$\}$
 $Hr_RT_Imp_Trans_Congestion_ \$ = \sum\{SCD_Imp_Trans_Congestion_ \$\}$
 $Hr_RT_Imp_Trans_TUC_ \$ = Hr_RT_Imp_Trans_Losses_ \$ + Hr_RT_Imp_Trans_Congestion_ \$$

Hourly Settlement Reported

Hr_RT_Bal_Imp_Trans_MWh:	Hourly Advisory Statement Billing Code: 505
Hr_RT_Imp_Trans_Losses_\$:	Hourly Advisory Statement Billing Code: 506
Hr_RT_Imp_Trans_Congestion_\$:	Hourly Advisory Statement Billing Code: 507
Hr_RT_Imp_Trans_TUC_\$:	Hourly Advisory Statement Billing Code: 508

Daily Settlement

Daily Settlement Inputs

Hr_RT_Bal_Imp_Trans_MWh:	Hourly Balancing transaction energy
Hr_RT_Imp_Trans_Losses_\$:	Hourly Balancing Transmission Usage Charge losses settlement
Hr_RT_Imp_Trans_Congestion_\$:	Hourly Balancing Transmission Usage Charge congestion settlement
Hr_RT_Imp_Trans_TUC_\$:	Total Hourly Balancing Transmission Usage Charge settlement

Daily Settlement Outputs

Daily_RT_Bal_Imp_Trans_MWh:	Daily Balancing transaction energy scheduled
Daily_RT_Imp_Trans_Losses_\$:	Daily Balancing Transmission Usage Charge losses settlement
Daily_RT_Imp_Trans_Congestion_\$:	Daily Balancing Transmission Usage Charge congestion settlement
Daily_RT_Imp_Trans_TUC_\$:	Total Daily Balancing Transmission Usage Charge settlement

Daily Settlement

$Daily_RT_Bal_Imp_Trans_MWh = \sum\{Hr_RT_Bal_Imp_Trans_MWh\}$
 $Daily_RT_Imp_Trans_Losses_ \$ = \sum\{Hr_RT_Imp_Trans_Losses_ \$\}$
 $Daily_RT_Imp_Trans_Congestion_ \$ = \sum\{Hr_RT_Imp_Trans_Congestion_ \$\}$
 $Daily_RT_Imp_Trans_TUC_ \$ = \sum\{Hr_RT_Imp_Trans_TUC_ \$\}$

Daily Settlement Reported

Daily_RT_Imp_Trans_MWhr:	Daily Advisory Billing Statement – Billing Code 754
Daily_RT_Imp_Trans_Losses_\$:	Daily Advisory Billing Statement – Billing Code 755
Daily_RT_Imp_Trans_Congestion_\$:	Daily Advisory Billing Statement – Billing Code 756
Daily_RT_Imp_Trans_TUC_\$:	Daily Advisory Billing Statement – Billing Code 757

Monthly Settlement

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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

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

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