

# DRAFT

MSR-0009

## DAM Non-NYCA LSE Energy

LSE's located externally to the NYCA purchase energy from the NYISO wholesale energy market through bilateral contracts. NYCA LBMP energy exports are scheduled as export transactions with the NYISO reference bus as the scheduled point of injection.

### Hourly Settlement

#### Hourly Settlement Inputs

Hr_DA_LBMP_Exp_Transaction_MWh:	Hourly LBMP energy Export transaction MWh scheduled by SCUC
DA_Price_of_Energy:	Hourly DAM LBMP energy component at the proxy bus bid as point of withdrawal
DA_Price_of_Losses:	Hourly DAM LBMP losses component at the proxy bus bid as point of withdrawal
DA_Price_of_Congestion:	Hourly DAM LBMP congestion component at the proxy bus bid as point of withdrawal

#### Hourly Settlement Outputs

Hr_DA_LBMP_Exp_Energy_\$:	Hourly DAM LBMP Export energy - energy settlement
Hr_DA_LBMP_Exp_Losses_\$:	Hourly DAM LBMP Export energy - losses settlement
Hr_DA_LBMP_Exp_Congestion_\$:	Hourly DAM LBMP Export energy - congestion settlement
Hr_DA_LBMP_Exp_\$:	Hourly Net DAM LBMP Export settlement

#### Hourly Settlement

$Hr\_DA\_LBMP\_Exp\_Energy\_\$ = Hr\_DA\_LBMP\_Exp\_Transaction\_MWhr \times DA\_Price\_of\_Energy$

$Hr\_DA\_LBMP\_Exp\_Losses\_\$ = Hr\_DA\_LBMP\_Exp\_Transaction\_MWhr \times DA\_Price\_of\_Losses$

$Hr\_DA\_LBMP\_Exp\_Congestion\_\$ = Hr\_DA\_LBMP\_Exp\_Transaction\_MWhr \times \{-1 \times DA\_Price\_of\_Congestion\}$

$Hr\_DA\_LBMP\_Exp\_\$ = Hr\_DA\_LBMP\_Exp\_Energy\_\$ + Hr\_DA\_LBMP\_Exp\_Losses\_\$ + Hr\_DA\_LBMP\_Exp\_Congestion\_\$$

#### Hourly Settlement Reported

Hr_DA_LBMP_Exp_Transaction_MWh:	Hourly Advisory Billing Statement – Billing Code 511
Hr_DA_LBMP_Exp_Energy_\$:	Hourly Advisory Billing Statement – Billing Code 512
Hr_DA_LBMP_Exp_Losses_\$:	Hourly Advisory Billing Statement – Billing Code 513
Hr_DA_LBMP_Exp_Congestion_\$:	Hourly Advisory Billing Statement – Billing Code 514
Hr_DA_LBMP_Exp_\$:	Hourly Advisory Billing Statement – Billing Code 515

### Daily Settlement

#### Daily Settlement Inputs

Hr_DA_LBMP_Exp_MWh:	Hourly LBMP energy Export transaction MWh scheduled by SCUC
Hr_DA_LBMP_Exp_Energy_\$:	Hourly DAM LBMP Export energy - energy settlement
Hr_DA_LBMP_Exp_Losses_\$:	Hourly DAM LBMP Export energy - losses settlement
Hr_DA_LBMP_Exp_Congestion_\$:	Hourly DAM LBMP Export energy - congestion settlement
Hr_DA_LBMP_Exp_\$:	Hourly Net DAM LBMP Export settlement

#### Daily Settlement Output

Daily_DA_LBMP_Exp_MWh:	Daily DAM LBMP Export energy sold/(purchased)
Daily_DA_LBMP_Exp_Energy_\$:	Daily DAM LBMP Export energy - energy settlement

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Daily_DA_LBMP_Exp_Losses_\$:	Daily DAM LBMP Export energy - losses settlement
Daily_DA_LBMP_Exp_Congestion_\$:	Daily DAM LBMP Export energy - congestion settlement
Daily_DA_LBMP_Exp_\$:	Daily Net DAM LBMP Export settlement

### Daily Settlement

Daily\_DA\_LBMP\_Exp\_MWh =  $\sum\{Hr\_DA\_LBMP\_Exp\_MWhr\}$

Daily\_DA\_LBMP\_Exp\_Energy\_\$ =  $\sum\{Hr\_DA\_LBMP\_Exp\_Energy\_ \$\}$

Daily\_DA\_LBMP\_Exp\_Losses\_\$ =  $\sum\{Hr\_DA\_LBMP\_Exp\_Losses\_ \$\}$

Daily\_DA\_LBMP\_Exp\_Congestion\_\$ =  $\sum\{Hr\_DA\_LBMP\_Exp\_Congestion\_ \$\}$

Daily\_DA\_LBMP\_Exp\_\$ =  $\sum\{Hr\_DA\_LBMP\_Exp\_ \$\}$

### Daily Settlement Reported

Daily_DA_LBMP_Exp_MWh:	Daily Advisory Billing Statement – Billing Code 758
Daily_DA_LBMP_Exp_Energy_\$:	Daily Advisory Billing Statement – Billing Code 759
Daily_DA_LBMP_Exp_Losses_\$:	Daily Advisory Billing Statement – Billing Code 760
Daily_DA_LBMP_Exp_Congestion_\$:	Daily Advisory Billing Statement – Billing Code 761
Daily_DA_LBMP_Exp_\$:	Daily Advisory Billing Statement – Billing Code 762

## Monthly Settlement

### Monthly Settlement Inputs

Daily_DA_LBMP_Imp_MWh:	Daily DAM LBMP import energy sold/(purchased) [Billing Code 758]
Daily_DA_LBMP_Imp_Energy_\$:	Daily DAM LBMP import energy - energy settlement [Billing Code 759]
Daily_DA_LBMP_Imp_Losses_\$:	Daily DAM LBMP import energy - losses settlement [Billing Code 760]
Daily_DA_LBMP_Imp_Congestion_\$:	Daily DAM LBMP import energy - congestion settlement [Billing Code 761]
Daily_DA_LBMP_Exp_MWh:	Daily DAM LBMP export energy sold/(purchased) [Billing Code 758]
Daily_DA_LBMP_Exp_Energy_\$:	Daily DAM LBMP export energy - energy settlement [Billing Code 759]
Daily_DA_LBMP_Exp_Losses_\$:	Daily DAM LBMP export energy - losses settlement [Billing Code 760]
Daily_DA_LBMP_Exp_Congestion_\$:	Daily DAM LBMP export energy - congestion settlement [Billing Code 761]
Daily_DA_Rep_LBMP_MWh:	Daily DAM LBMP replacement energy for curtailed imports [Billing Code 758]
Daily_DA_Rep_Energy_\$ :	Daily DAM LBMP replacement energy for curtailed imports [Billing Code 759]
Daily_DA_Rep_Losses_\$:	Daily DAM LBMP replacement energy for curtailed imports [Billing Code 760]
Daily_DA_Rep_Congestion_\$:	Daily DAM LBMP replacement energy for curtailed imports [Billing Code 761]
Daily_DAM_NYCA_LSE_MWh:	Daily DAM LSE energy scheduled [Billing Code 700]
Daily_DAM_NYCA_LSE_Energy_\$ :	Daily DAM LSE energy settlement[Billing Code 701]
Daily_DAM_NYCA_LSE_Losses_\$:	Daily DAM LSE losses settlement[Billing Code 702]
Daily_DAM_NYCA_LSE_Congestion_\$:	Daily DAM LSE congestion settlement[Billing Code 703]
Daily_DAM_Int_Trans_Losses_\$:	Daily DAM Internal Transaction losses settlement [Billing Code 751]
Daily_DAM_Int_Trans_Congestion_\$:	Daily DAM Internal Transaction congestion settlement [Billing Code 752]
Daily_DAM_Imp_Trans_Losses_\$:	Daily DAM Import Transaction losses settlement [Billing Code 751]
Daily_DAM_Imp_Trans_Congestion_\$:	Daily DAM ImportTransaction congestion settlement [Billing Code 752]
Daily_DAM_Exp_Trans_Losses_\$:	Daily DAM Export Transaction losses settlement [Billing Code 751]
Daily_DAM_Exp_Trans_Congestion_\$:	Daily DAM Export Transaction congestion settlement [Billing Code 752]
Daily_DAM_WT_Trans_Losses_\$:	Daily DAM Wheel Transaction losses settlement [Billing Code 751]
Daily_DAM_WT_Trans_Congestion_\$:	Daily DAM Wheel Transaction congestion settlement [Billing Code 752]

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Monthly Settlement Outputs

Monthly_DA_LBMP_MWh:	Monthly DAM energy sold/(purchased)
Monthly_DA_Energy_\$:	Monthly DAM energy settlement
Monthly_DA_Losses_\$:	Monthly DAM losses settlement
Monthly_DA_Congestion_\$:	Monthly DAM congestion settlement

Monthly Settlement

$$\text{Monthly\_DA\_LBMP\_MWhr} = \sum\{\text{Daily\_DA\_LBMP\_Imp\_MWh} + \text{Daily\_DA\_LBMP\_Exp\_MWh} + \text{Daily\_DA\_Rep\_LBMP\_MWh} + \text{Daily\_DAM\_NYCA\_LSE\_MWh}\}$$

$$\text{Monthly\_DA\_Energy\_\$} = \sum\{\text{Daily\_DA\_LBMP\_Imp\_Energy\_\$} + \text{Daily\_DA\_LBMP\_Exp\_Energy\_\$} + \text{Daily\_DA\_Rep\_Energy\_\$} + \text{Daily\_DAM\_NYCA\_LSE\_Energy\_\$} + \text{Daily\_DAM\_NYCA\_LSE\_Losses\_\$} + \text{Daily\_DAM\_NYCA\_LSE\_Congestion\_\$}\}$$

$$\text{Monthly\_DA\_Losses\_\$} = \sum\{\text{Daily\_DA\_LBMP\_Imp\_Losses\_\$} + \text{Daily\_DA\_LBMP\_Exp\_Losses\_\$} + \text{Daily\_DA\_Rep\_Losses\_\$} + \text{Daily\_DA\_Imp\_Trans\_Losses\_\$} + \text{Daily\_DA\_Exp\_Trans\_Losses\_\$} + \text{Daily\_DA\_WT\_Trans\_Losses\_\$}\}$$

$$\text{Monthly\_DA\_Congestion\_\$} = \sum\{\text{Daily\_DA\_LBMP\_Imp\_Congestion\_\$} + \text{Daily\_DA\_LBMP\_Exp\_Congestion\_\$} + \text{Daily\_DA\_Rep\_Congestion\_\$} + \text{Daily\_DA\_Imp\_Trans\_Congestion\_\$} + \text{Daily\_DA\_Exp\_Trans\_Congestion\_\$} + \text{Daily\_DA\_WT\_Trans\_Congestion\_\$}\}$$