

Transaction Customer Uplift and Other Allocation Settlements

Mathangi Srinivasan Kumar

Market Training Program Lead, Market Training,
New York Independent System Operator

Accounting & Billing Workshop

December 9 – 13, 2024
Remote Learning

What is Uplift?

- Uplift results from additional payments made that are above market revenue
- Uplift is allocated to all energy withdrawals (including LSEs and Transaction Customers)

How are Uplift and Other Allocations allocated?

- Based on load ratio share of the following:
 - NYISO-wide
 - Local
 - Transmission Owner
 - Superzone

****Load ratio share allocations for uplift and other allocations excludes CTS-NE MWHrs from the calculation****

Load Ratio Share

LOAD RATIO SHARE (LRS): An LSE's portion of load compared to the Designated Total Load*

$$\text{Load Ratio Share (LRS)} = \frac{\text{RT Actual MWs}}{\text{Designated Total Load}}$$

$$\frac{\text{RT Actual MWs}}{\text{NYISO-wide Load}^*} \quad \text{OR} \quad \frac{\text{RT Actual MWs}}{\text{Superzone Load}^*} \quad \text{OR} \quad \frac{\text{RT Actual MWs}}{\text{Transmission District Load}^*} \quad \text{OR} \quad \frac{\text{RT Actual MWs}}{\text{Subzone Load}^*}$$

Transaction Customer - Uplift & Other Allocation Settlements

- **Objectives Per Settlement Name:**
 - Provide Settlement Description
 - Identify Settlement Eligibility
 - Name Settlement Determinants
 - Name Settlement Intermediates
 - Explain Settlement Algorithm
 - Step Through Settlement Scenario
 - Perform Settlement Example
 - Note Settlement Reference Material

Transaction Customer Uplift Allocations

Transaction Customer Uplift Allocations -1

Settlement Name	Settlement Description	Load Ratio Share
PS DAM BPCG	A charge to Transaction Customers (TCs) intended to recover their share of NYISO's costs of the DAM BPCG payment to Power Suppliers (PSs).	NYISO Wide
PS RT BPCG	A charge to TCs intended to recover NYISO's costs of the RT BPCG payment to Power Suppliers who are either: <i>Committed economically in the RT</i> <i>Committed through NYISO SRE or</i> <i>Committed through NYISO OOM</i>	NYISO Wide
PS DAMAP	A charge to TCs intended to proportionally recover NYISO's costs of the DAM Margin Assurance payments to Power Suppliers	NYISO Wide
TC DAM BPCG	A charge to TCs intended to recover NYISO's costs of the Transaction DAM BPCG payment to Transaction Customers (NYCA-external generators)	NYISO Wide

Transaction Customer Uplift Allocations -2

Settlement Name	Settlement Description	Load Ratio Share
TC Import ECA Supplier Guarantee	A charge to TCs intended to recover NYISO's costs of the Import Extraordinary Corrective Action Supplier Guarantee payment to Transaction Customers	NYISO Wide
PS RT BPCG for Supplemental Events	A charge to TCs intended to recover NYISO's costs of the RT BPCG for Supplemental Events payment to Power Suppliers	NYISO Wide
Financial Impact Credit Allocation	A credit to TCs, against uplift charges, resulting from a charge imposed on Market Participants when a transaction fails checkout due to Market Participant action	NYISO Wide

Transaction Customer – Uplift Allocations

- Settlement Name:
 - PS DAM BPCG Uplift Allocation
 - PS RT BPCG Uplift Allocation
 - PS DAMAP Uplift Allocation
 - Trans DAM BPCG Uplift Allocation
 - Trans Import ECA Supplier Guarantee Allocation
 - PS RT BPCG for Supplemental Events Uplift Allocation
 - Financial Impact Credit Allocation

Transaction Customer Uplift Allocation

PS DAM BPCG

■ Settlement Description

- A charge to Transaction Customers (TCs) intended to recover their share of NYISO's costs of the DAM BPCG payment to Power Suppliers (PSs).
- This charge covers only the payments made by NYISO to Power Suppliers for generators committed in the DAM for reason other than local reliability.
- A portion of the costs of these payments is recovered through allocations to TCs based on their load ratio shares during the given day for their scheduled transaction (export and/or wheel-through) energy in the NYISO markets.

Transaction Customer Uplift Allocation

PS DAM BPCG

■ Settlement Eligibility

- TCs will receive a charge for DAM BPCG (\$) if all of the following conditions exist:
 - *The TC transacted energy via exports and/or wheel-throughs.*
 - *There were DAM BPCG payments made to PS due to NYISO DAM commitment, or un-allocated DAM BPCG Under-Forecasting payments, during the day.*

Transaction Customer Uplift Allocation PS DAM BPCG

Settlement Determinants

- Day Total NYISO DAM BPCG (\$)
- Day Ttl NYISO DAM BPCG Fcst Rdr (\$)
- Day RT Export Trans :TC (MWh)
- Day RT Wheel-Thru Trans :TC (MWh)
- Day Total NYISO RT LSE Load (MWh)
- Day Total NYISO RT Export Trans (MWh)
- Day Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

PS DAM BPCG

Settlement Intermediates

- Day RT TC Ld Ratio Sh :LSE, Exp, WT

Settlement Results

- Day DAM BPCG Stlmnt :TC (\$)

Transaction Customer Uplift Allocation

PS DAM BPCG

- Settlement Algorithm

Day DAM BPCG Stlmnt: TC (\$) =

$$[\{ \text{Day Total NYISO DAM BPCG (\$)} + \text{Day Ttl NYISO DAM BPCG Fcst Rdr (\$)} \} * \text{Day RT TC Ld Ratio Sh: LSE, Exp, WT}] * -1$$

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =

$$\frac{\{ \text{Day RT Export Trans: TC (MWh)} + \text{Day RT Wheel-Thru Trans: TC (MWh)} \}}{\{ \text{Day Total NYISO RT LSE Load (MWh)} + \text{Day Total NYISO RT Export Trans (MWh)} + \text{Day Total NYISO RT WT Trans (MWh)} \}}$$

Transaction Customer Uplift Allocation

PS DAM BPCG

Settlement Scenario

- Day Ahead Bid Production Cost Guarantee
 - Total = \$100,000
 - Under-Forecasted Remainder = \$2,000
- ‘TC ABC’ Daily Real-Time Energy Exports/Wheel-throughs
 - ‘TC ABC’ Exports = 200 MWh
 - ‘TC ABC’ Wheel-Through = 20 MWh
- NYISO Daily Real-Time Total Loads
 - NYISO LSE Load = 450,000 MWh
 - NYISO Export Transactions = 20,000 MWh
 - NYISO Wheel-Through Transactions = 250 MWh

Transaction Customer Uplift Allocation

PS DAM BPCG

- Settlement Example:

Day DAM BPCG Stlmnt: TC (\$) =

$$[(\$100,000 + \$2,000) * .0004678] * -1 = -\$47.72$$

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =

$$(200 + 20) / (450,000 + 20,000 + 250) = \\ 220 / 470,250 = .0004678$$

Transaction Customer Uplift Allocation

PS DAM BPCG

Summary

- Charge to Transaction Customers engaged in exports and wheel-through transactions
- Covers NYISO's DAM BPCG Payments to Power Suppliers
- Allocated by each TC's RT load ratio share
- Settled at daily level

Transaction Customer Uplift Allocation

PS DAM BPCG

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.12
- **Accounting and Billing Manual**
 - Section 8.1.11 (Appendix M)
- **Advisory Billing File**
 - Ancillary Services NYISO-wide Uplift charges \$
 - Daily Bill Code 812
- **DSS Corporate Report**
 - Transaction Customer - PS Uplift Allocations

Transaction Customer – Uplift Allocations

- Settlement Name:
 - ✓ PS DAM BPCG Uplift Allocation
 - **PS RT BPCG Uplift Allocation**
 - PS DAMAP Uplift Allocation
 - Trans DAM BPCG Uplift Allocation
 - Trans Import ECA Supplier Guarantee Allocation
 - PS RT BPCG for Supplemental Events Uplift Allocation
 - Financial Impact Credit Allocation

Transaction Customer Uplift Allocation

PS RT BPCG

■ Settlement Description

- A charge to TCs intended to recover NYISO's costs of the RT BPCG payment to Power Suppliers who are either:
 - *Committed economically in the RT*
 - *Committed through NYISO SRE or*
 - *Committed through NYISO OOM*
- This charge covers only the payments made by NYISO to Power Suppliers for generators committed in the RT for reasons other than local reliability.
- A portion of the costs of these payments is recovered through allocations to TCs based on their load ratio shares during the given day for their scheduled transaction (export and/or wheel-through) energy in the NYISO markets.

Transaction Customer Uplift Allocation

PS RT BPCG

■ Settlement Eligibility

- *Transaction Customers will receive a charge for RT BPCG (\$) if all of the following conditions exist:*
 - *The TC transacted energy via exports and/or wheel-throughs*
 - *There were RT BPCG payments made to Power Suppliers due to any one of the following reasons:*
 - *Committed economically in the RT*
 - *Committed through NYISO SRE or*
 - *Committed through NYISO OOM*

Transaction Customer Uplift Allocation

PS RT BPCG

■ Settlement Determinants

- Day Total NYISO RT BPCG (\$)
- Day RT Export Trans: TC (MWh)
- Day RT Wheel-Thru Trans:TC (MWh)
- Day Total NYISO RT LSE Load (MWh)
- Day Total NYISO RT Export Trans (MWh)
- Day Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

PS RT BPCG

- **Settlement Intermediates**

- Day RT TC Ld Ratio Sh: LSE, Exp, WT

- **Settlement Results**

- Day RT BPCG Stlmnt: TC (\$)

Transaction Customer Uplift Allocation

PS RT BPCG

Settlement Algorithm:

Day RT BPCG Settlement: TC (\$) =
(Day Total NYISO RT BPCG (\$)) * Day RT TC Ld Ratio Sh: LSE, Exp, WT) * -1

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =
{Day RT Export Trans: TC (MWh) + Day RT Wheel-Thru Trans: TC (MWh)} / {Day Total NYISO RT LSE Load (MWh) + Day Total NYISO RT Export Trans (MWh) + Day Total NYISO RT WT Trans (MWh)}

Transaction Customer Uplift Allocation

PS RT BPCG

■ Settlement Scenario

- Daily Real-Time Bid Production Cost Guarantee
 - Total = \$15,000
- ‘TC ABC’ Daily Real-Time Energy Exports/Wheel-Throughs
 - Exports = 200 MWh
 - Wheel-Through = 20 MWh
- NYISO Daily Real-Time Total Loads
 - LSE Load = 450,000 MWh
 - Export Transactions = 20,000 MWh
 - Wheel-Through Transactions = 250 MWh

Transaction Customer Uplift Allocation

PS RT BPCG

Settlement Example:

Day RT BPCG Stlmnt: TC (\$) =
 $(.0004678 * \$15,000) * -1 = \text{\textcolor{teal}{-\$7.02}}$

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =
 $(200 + 20) / (450,000 + 20,000 + 250) =$
 $220 / 470,250 = \text{\textcolor{teal}{.0004678}}$

Transaction Customer Uplift Allocation

PS RT BPCG

Summary

- Charge to Transaction Customers engaged in exports and wheel-through transactions
- Covers NYISO's RT BPCG Payments to Power Suppliers
- Allocated by each TC's RT load ratio share
- Settled at daily level

Transaction Customer Uplift Allocation

PS RT BPCG

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.12
- **Accounting and Billing Manual**
 - Section 8.1.11
- **Advisory Billing File**
 - Ancillary Services NYISO-wide Uplift Charges \$
 - Daily Bill Code 812
- **DSS Corporate Report**
 - Transaction Customer - PS Uplift Allocations

Transaction Customer – Uplift Allocation

■ Settlement Name

- ✓ PS DAM BPCG Uplift Allocation
- ✓ PS RT BPCG Uplift Allocation
- **PS DAMAP Uplift Allocation**
- Trans DAM BPCG Uplift Allocation
- Trans Import ECA Supplier Guarantee Allocation
- PS RT BPCG for Supplemental Events Uplift Allocation
- Financial Impact Charge Allocation

Transaction Customer Uplift Allocation

PS DAMAP Uplift

■ Settlement Description

- A charge to TCs intended to proportionally recover NYISO's costs of the DAM Margin Assurance payments to Power Suppliers.
- This charge covers only the payments made by NYISO to Power Suppliers for generators scheduled below their DAM Schedules by NYISO for NYISO reliability.
- DAM Margin Assurance payments made to PS are totaled and a portion is allocated to TCs based on their load ratio shares during the given hour for their scheduled transaction (export and/or wheel-through) energy in the NYISO markets.

Transaction Customer Uplift Allocation

PS DAMAP Uplift

- Settlement Eligibility

- *Transaction Customers will receive a charge for DAM Margin Assurance (\$) if all of the following conditions exist:*
 - *The Transaction Customer transacted energy via exports and/or wheel-throughs.*
 - *There were DAM Margin Assurance payments made to Power Suppliers during the hour.*

Transaction Customer Uplift Allocation

PS DAMAP Uplift

- **Settlement Determinants**
 - Hr Total NYISO DAM Mrgn Assrnc (\$)
 - Hr RT Export Trans: TC (MWh)
 - Hr RT Wheel-Thru Trans: TC (MWh)
 - Hr Total NYISO RT LSE Load (MWh)
 - Hr Total NYISO RT Export Trans (MWh)
 - Hr Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

PS DAMAP Uplift

- **Settlement Intermediates**
 - Hr RT TC Ld Ratio Sh: LSE, Exp, WT

- **Settlement Results**
 - HR DAM Mrgn Assrnc Stlmnt: TC (\$)

Transaction Customer Uplift Allocation

PS DAMAP Uplift

■ Settlement Algorithm

HR DAM Mrgn Assrnc Stlmnt : TC (\$) =

(Hr Total NYISO DAM Mrgn Assrnc (\$) * Hr RT TC Ld Ratio Sh: LSE, Exp, WT) * -1

Where:

Hr RT TC Ld Ratio Sh: LSE, Exp, WT =

{Hr RT Export Trans: TC (MWh) + Hr RT Wheel-Thru Trans: TC (MWh)} /

{Hr Total NYISO RT LSE Load (MWh) + Hr Total NYISO RT Export Trans (MWh) + Hr Total NYISO RT WT Trans (MWh)}

Transaction Customer Uplift Allocation

PS DAMAP Uplift

■ Settlement Scenario

- Hourly Total NYISO Day Ahead Margin Assurance
 - Total = \$1,000
- ‘TC ABC’ Hourly Real-Time Energy Exports
 - Exports = 18 MWh
 - Wheel-Through = 1 MWh
- NYISO Hourly Real-Time Total Loads
 - LSE Load = 20,000 MWh
 - Export Transactions = 1,000 MWh
 - Wheel-Through Transactions = 10 MWh

Transaction Customer Uplift Allocation

PS DAMAP Uplift

■ Settlement Algorithm

$$\text{HR DAM Mrgn Assrnc Stlmnt : TC (\$)} = \\ (.00904 * \$1000) * -1 = \text{\textcolor{teal}{-\$0.90}}$$

Where:

$$\text{Hr RT TC Ld Ratio Sh: LSE, Exp, WT} = \\ (18 + 1) / (20,000 + 1,000 + 10) = \\ 19 / 21,010 = \text{\textcolor{teal}{.000904}}$$

Transaction Customer Uplift Allocation

PS DAMAP Uplift

■ Summary

- Charge to Transaction Customers engaged in exports and wheel-through transactions
- Covers NYISO's payments to generators scheduled in RT below their DAM schedules NYISO reliability
- Allocated by each TC's RT load ratio share
- Settled at the hourly level

Transaction Customer Uplift Allocation

PS DAMAP Uplift

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.10
- **Accounting and Billing Manual**
 - Section 8.1.9 (Appendix M)
- **Advisory Billing File**
 - Ancillary Services Residual Adjustment \$
 - Hourly Bill Code 611
 - Daily Bill Code 813
- **DSS Corporate Report**
 - Transaction Customer - PS Uplift Allocations

Transaction Customer Uplift Allocation

Settlement Name:

- A. PS DAM BPCG Uplift Allocation
- B. PS RT BPCG Uplift Allocation
- C. PS DAMAP Uplift Allocation
- D. Trans DAM BPCG Uplift Allocation**
- E. Trans Import ECA Supplier Guarantee Allocation
- F. PS RT BPCG for Supplemental Events Uplift Allocation
- G. Financial Impact Charge Allocation

Transaction Customer Uplift Allocation

Trans DAM BPCG

■ Settlement Description

- A charge to TCs intended to recover NYISO's costs of the Transaction DAM BPCG payment to Transaction Customers (NYCA-external generators).
- The costs of a portion of these payments are recovered through allocations to TCs based on their load ratio shares during the given day for their scheduled transaction (export and/or wheel-through) energy in the NYISO markets.

Transaction Customer Uplift Allocation

Trans DAM BPCG

■ Settlement Eligibility

- *Transaction Customers will receive a charge for Transaction DAM BPCG (\$) if all of the following conditions exist:*
 - *The Transaction Customer transacted energy via exports and/or wheel-throughs.*
 - *There were Transaction DAM BPCG payments made to Transaction Customers during the day.*

Transaction Customer Uplift Allocation

Trans DAM BPCG

- **Settlement Determinants**
 - Day Total NYISO Trans DAM BPCG (\$)
 - Day RT Export Trans :TC (MWh)
 - Day RT Wheel-Thru Trans :TC (MWh)
 - Day Total NYISO RT LSE Load (MWh)
 - Day Total NYISO RT Export Trans (MWh)
 - Day Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

Trans DAM BPCG

- Settlement Intermediates
 - Day RT TC Ld Ratio Sh: LSE, Exp, WT

- Settlement Results
 - Day DAM Trans BPCG Stlmnt: TC (\$)

Transaction Customer Uplift Allocation

Trans DAM BPCG

Settlement Algorithm

Day DAM Trans BPCG Stlmnt: TC (\$) =

(Day Total NYISO Trans DAM BPCG (\$) * Day RT TC Ld Ratio Sh: LSE, Exp, WT)
* -1

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =

$$\frac{\{ \text{Day RT Export Trans: TC (MWh)} + \text{Day RT Wheel-Thru Trans: TC (MWh)} \}}{\{ \text{Day Total NYISO RT LSE Load (MWh)} + \text{Day Total NYISO RT Export Trans (MWh)} + \text{Day Total NYISO RT WT Trans (MWh)} \}}$$

Transaction Customer Uplift Allocation

Trans DAM BPCG

■ Settlement Scenario:

- Day Ahead Transaction Bid Production Cost Guarantee
 - Total = \$25,000
- ‘TC ABC’ Daily Real-Time Energy Exports
 - Exports = 200 MWh
 - Wheel-Through = 20 MWh
- NYISO Daily Real-Time Total Loads
 - LSE Load = 450,000 MWh
 - Export Transactions = 20,000 MWh
 - Wheel-Through Transactions = 250 MWh

Transaction Customer Uplift Allocation

Trans DAM BPCG

Settlement Algorithm

Day DAM Trans BPCG Stlmnt: TC (\$) =
 $(.0004678 * \$25,000) * -1 = \text{\textcolor{teal}{-\$11.70}}$

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =
 $(200 + 20) / (450,000 + 20,000 + 250) =$
 $220 / 470,250 = \text{\textcolor{teal}{.0004678}}$

Transaction Customer Uplift Allocation

Trans DAM BPCG

■ Summary

- Charge to Transaction Customers engaged in exports and wheel-through transactions
- Covers NYISO's DAM BPCG Payments to Transaction Customers
- Allocated by each TC's RT load ratio share
- Settled daily

Transaction Customer Uplift Allocation

Trans DAM BPCG

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.12
- **Accounting and Billing Manual**
 - Section 8.1.11 (Appendix M)
- **Advisory Billing File**
 - Ancillary Services NYISO-wide Uplift Charges \$
 - Daily Bill Code 812
- **DSS Corporate Report**
 - Transaction Customer - PS Uplift Allocations

Transaction Customer Uplift Allocation

■ Settlement Name

- ✓ PS DAM BPCG Uplift Allocation
- ✓ PS RT BPCG Uplift Allocation
- ✓ PS DAMAP Uplift Allocation
- ✓ Trans DAM BPCG Uplift Allocation
- **Trans Import ECA Supplier Guarantee Allocation**
- PS RT BPCG for Supplemental Events Uplift Allocation
- Financial Impact Charge Allocation

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

■ Settlement Description

- A charge to TCs intended to recover NYISO's costs of the Import Extraordinary Corrective Action Supplier Guarantee payment to Transaction Customers.
- The costs of a portion of these payments are recovered through allocations to TCs based on their load ratio shares during the given hour for their scheduled transaction (export and/or wheel-through) energy in the NYISO markets.

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

■ Settlement Eligibility

- *Transaction Customers will receive a charge for Transaction Import ECA Supplier Guarantee (\$) if all of the following conditions exist:*
 - *The Transaction Customer transacted energy via exports and/or wheel-throughs.*
 - *There were Import ECA Supplier Guarantee payments made to Transaction Customers during the hour.*

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

■ Settlement Determinants

- Hr Ttl NYISO ImECASupGnt: LBMP (\$)
- Hr Ttl NYISO ImECASupGnt: PTP (\$)
- Hr RT Export Trans: TC (MWh)
- Hr RT Wheel-Thru Trans: TC (MWh)
- Hr Total NYISO RT LSE Load (MWh)
- Hr Total NYISO RT Export Trans (MWh)
- Hr Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

■ Settlement Intermediates

- Hr Total NYISO Imp ECA Sup Gnt (\$)
- Hr RT TC Ld Ratio Sh: LSE, Exp, WT

■ Settlement Results

- Hr Imp ECA Sup Gnt Stlmnt: TC (\$)

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

- Settlement Algorithm

Hr Imp ECA Sup Gnt Stlmnt: TC (\$) = (Hr Total NYISO Imp ECA Sup Gnt (\$) * Hr RT TC Ld Ratio Sh: LSE, Exp, WT) * -1

Where:

Hr Total NYISO Imp ECA Sup Gnt (\$) = Hr Ttl NYISO Imp ECA Sup Gnt: LBMP (\$) + Hr Ttl NYISO Imp ECA Sup Gnt: PTP (\$)

And:

Hr RT TC Ld Ratio Sh: LSE, Exp, WT =

$$\frac{\{ \text{Hr RT Export Trans: TC (MWh)} + \text{Hr RT Wheel-Thru Trans: TC (MWh)} \}}{\{ \text{Hr Total NYISO RT LSE Load (MWh)} + \text{Hr Total NYISO RT Export Trans (MWh)} + \text{Hr Total NYISO RT WT Trans (MWh)} \}}$$

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

■ Settlement Scenario

- Hourly Total NYISO Import Extraordinary Corrective Action Supplier Guarantees
 - LBMP = \$1,000
 - Point-to-Point (Bilateral) = \$500
- Hr RT TC Ld Ratio Sh: LSE, Exp, WT = 0.0009043

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

- Settlement Algorithm

$$\text{Hr Imp ECA Sup Gnt Stlmnt: TC (\$)} = (0.0009043 * \$1500) * -1 = -\$1.36$$

Where:

$$\text{Hr Total NYISO Imp ECA Sup Gnt (\$)} = \$1000 + \$500 = \$1500$$

And:

$$\text{Hr RT TC Ld Ratio Sh: LSE, Exp, WT} = 0.0009043$$

Transaction Customer Uplift Allocation

Trans Import ECA Supplier Guarantee

■ Summary

- Charge to Transaction Customers engaged in exports and wheel-through transactions
- Covers NYISO's Import ECA Guarantee Payments to Transaction Customers
- Allocated by each TC's RT load ratio share
- Settled at the hourly level

Uplift Allocation

Trans Import ECA Supplier Guarantee

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.11
- **Accounting and Billing Manual**
 - Section 8.1.11
- **Advisory Billing File**
 - Ancillary Services NYISO-Wide Uplift Charges \$
 - Daily Bill Code 812
- **DSS Corporate Report**
 - PS Uplift Allocations

Transaction Customer Uplift Allocation

■ Settlement Name

- ✓ PS DAM BPCG Uplift Allocation
- ✓ PS RT BPCG Uplift Allocation
- ✓ PS DAMAP Uplift Allocation
- ✓ Trans DAM BPCG Uplift Allocation
- ✓ Trans Import ECA Supplier Guarantee Allocation
- PS RT BPCG for Supplemental Events Uplift Allocation
- Financial Impact Credit Allocation

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

■ Settlement Description

- A charge to TCs intended to recover NYISO's costs of the RT BPCG for Supplemental Events payment to Power Suppliers.
- PS payments are to internal PSs for net losses incurred due to responding to NYISO requested increases in output during Large Event Reserve Pickups or Maximum Generation pickups .
- The costs of a portion of these payments are recovered through allocations to TCs based on their load ratio shares during the given day for their scheduled transaction (export and/or wheel-through) energy in the NYISO markets.

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

Settlement Eligibility:

- *Transaction Customers will receive a charge for RT BPCG for Supplemental Events (\$) if all of the following conditions exist:*
 - The Transaction customer transacted energy via exports and/or wheel-throughs.
 - There were RT BPCG for Supplemental Events payments made to Power Suppliers during the day.

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

■ Settlement Determinants

- Day Total NYISO RT BPCG Sup Event (\$)
- Day RT Export Trans: TC (MWh)
- Day RT WT Trans: TC (MWh)
- Day Total NYISO RT LSE Load (MWh)
- Day Total NYISO RT Export Trans (MWh)
- Day Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

- **Settlement Intermediates**
 - Day RT TC Ld Ratio Sh: LSE, Exp, WT

- **Settlement Results**
 - Day RT BPCG Sup Event Stlmnt: TC (\$)

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

■ Settlement Algorithm

Day RT BPCG Sup Event Stlmnt: TC (\$) =
 (Day Total NYISO RT BPCG Sup Event (\$) * Day RT TC Ld Ratio Sh:
 LSE, Exp, WT) * -1

Where:

Day RT TC Ld Ratio Sh: LSE, Exp, WT =

$$\frac{\{\text{Day RT Export Trans: TC (MWh)} + \text{Day RT Wheel-Thru Trans: TC (MWh)}\}}{\{\text{Day Total NYISO RT LSE Load (MWh)} + \text{Day Total NYISO RT Export Trans (MWh)} + \text{Day Total NYISO RT WT Trans (MWh)}\}}$$

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

Settlement Scenario

- Daily Total NYISO RT BPCG for Sup Events
 - \$250
- 'Day RT TC Ld Ratio Sh: LSE, Exp, WT
 - 0.0004678

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

Settlement Example

Day RT BPCG Sup Event Stlmnt:TC (\$)

$$(.0004678 * \$250) * -1 = -\$0.12$$

Transaction Customer Uplift Allocation

PS RT BPCG for Supplemental Events

■ Summary

- Charge to Transaction Customers engaged in exports and wheel-through transactions
- Covers PS payments for losses incurred due to responding to reserve or max gen pickups .
- Allocated by each TC's RT load ratio share
- Settled at the daily level

Transaction Customer Uplift Allocation PS RT BPCG for Supplemental Events

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.12
- **Accounting and Billing Manual**
 - Section 8.1.11 (Appendix M)
- **Advisory Billing File**
 - Ancillary Services Hrly Sup Event Charge \$
 - Daily Bill Code 818
- **DSS Corporate Report**
 - Transaction Customer Supplemental Event Charge

Transaction Customer Uplift Allocation

■ Settlement Name

- ✓ PS DAM BPCG Uplift Allocation
- ✓ PS RT BPCG Uplift Allocation
- ✓ PS DAMAP Uplift Allocation
- ✓ Trans DAM BPCG Uplift Allocation
- ✓ Trans Import ECA Supplier Guarantee Allocation
- ✓ PS RT BPCG for Supplemental Events Uplift Allocation
- **Financial Impact Credit Allocation**

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Description

- The intent of a FIC is to offset additional uplift created by failed transactions. Therefore, a FIC allocation could be considered as a *credit* against uplift charges to NYISO LSEs and TCs.

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Eligibility

- *Transaction Customers will receive a credit for FLCs if all of the following conditions exist:*
 - *The Transaction Customer transacted energy via exports and/or wheel-throughs.*
 - *There were FLCs to Transactions Customers during the hour.*

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Determinants

- Hr Total NYISO Fin Imp Ch: Imp (\$)
- Hr Total NYISO Fin Imp Ch: Exp (\$)
- Hr Total NYISO Fin Imp Ch: WT (\$)
- Hr RT Export Trans: TC (MWh)
- Hr RT WT Trans: TC (MWh)
- Hr Total NYISO RT LSE Load (MWh)
- Hr Total NYISO RT Export Trans (MWh)
- Hr Total NYISO RT WT Trans (MWh)

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Intermediates

- Hr Total NYISO Fin Imp Ch (\$)
- Hr RT TC Ld Ratio Sh: LSE, Exp, WT

■ Settlement Results

- Hr FIC Stlmnt: TC (\$)

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Algorithm

Hr FIC Stlmnt: TC (\$) =

Hr Total NYISO Fin Imp Ch (\$) * Hr RT TC Ld Ratio Sh: LSE, Exp, WT

Where:

Hr Total NYISO Fin Imp Ch (\$) =

Hr Total NYISO Fin Imp Ch: Imp (\$) + Hr Total NYISO Fin Imp Ch: Exp (\$) + Hr Total NYISO Fin Imp Ch: WT (\$)

And:

Hr RT TC Ld Ratio Sh: LSE, Exp, WT =

$\{ \text{Hr RT Export Trans: TC (MWh)} + \text{Hr RT Wheel-Thru Trans: TC (MWh)} \} / \{ \text{Hr Total NYISO RT LSE Load (MWh)} + \text{Hr Total NYISO RT Export Trans (MWh)} + \text{Hr Total NYISO RT WT Trans (MWh)} \}$

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Scenario

- Hr Total NYISO Financial Impact Charge
 - Imports = \$1,000
 - Exports = \$500
 - Wheel-Through = \$250
- Hr RT TC Ld Ratio Sh: LSE, Exp, WT
 - 0.0009043

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Settlement Example

FIC Stmtnt: TC (\$)=

$$.0009043 * \$1,750 = \$1.58$$

Hr Total NYISO Fin Imp Ch (\$)=

$$\$1,000 + \$500 + \$250 = \$1,750$$

Transaction Customer Uplift Allocation

Financial Impact Credit

■ Summary

- Credit to Transaction Customers engaged in exports and wheel-through transactions
- Allocates MPs FIC payments
- Allocated by each TC's RT load ratio share
- Settled at the hourly level

Transaction Customer Uplift Allocation Financial Impact Credit

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.14
- **Accounting and Billing Manual**
 - Section 8.1.13 (Appendix M)
- **Advisory Billing File**
 - Ancillary Services Hrly Fin Impact Credit \$
 - Hourly Bill Code 620
 - Daily Bill Code 819
- **DSS Corporate Report**
 - Transaction Customer Financial Impact Credit

Transactions Customer – Uplift Allocations

■ Settlement Name

- PS DAM BPCG Uplift Allocation
- PS RT BPCG Uplift Allocation
- PS DAMAP Uplift Allocation
- Trans DAM BPCG Uplift Allocation
- Trans Import ECA Supplier Guarantee Allocation
- PS RT BPCG for Supplemental Events Uplift Allocation
- Financial Impact Credit Allocation

Transaction Customer Other Allocation Settlements

LSE Other Allocation Settlements

Settlement Name	Settlement Description	Load Ratio Share
NTAC Allocation*	Charge to Transmission Customers intended to cover New York Power Authority's (NYPA) transmission revenue requirements	Based on Actual RT MWs
Non-NYISO Facilities – Ramapo PAR	Charge intended to cover NYISO's monthly payments to the owners of facilities needed for economic and reliable operation of NYS Transmission System	NYISO Wide
Non-NYISO Facilities – Station 80 Cap Bank	Charge intended to cover NYISO's monthly payments to the owners of facilities needed for economic and reliable operation of NYS Transmission System	NYISO Wide

Transactions – Other Allocations

- Settlement Name
 - NTAC Allocation
 - Non-NYISO Facilities
 - *Ramapo Par*
 - *Station 80 Cap Bank*

NYPA Transmission Adjustment Charge (NTAC)

■ Settlement Description

- Charge to Transmission Customers intended to cover New York Power Authority's (NYPA) transmission revenue requirements

NYPA Transmission Adjustment Charge (NTAC)

Settlement Eligibility:

- *Transaction Customers will receive a charge for NYPA Transmission Adjustment Charge (\$) if all of the following conditions exist:*
 - The Transaction Customer scheduled energy transactions in the NYISO energy markets
 - Hr RT Export Trans: $TC (MW) > 0$
 - OR
 - Hr RT Wheel-Thru Trans: $TC (MW) > 0$

Note: Shall not apply to transactions in which ISO-NE is the source/sink

NYPA Transmission Adjustment Charge (NTAC)

Settlement Determinants:

- Hr NTAC Rate (\$/MWh)
- Hr RT Export Trans: TC (MWh)
 - Excludes CTS-NE Export MWs
- Hr RT Wheel-Thru Trans: TC (MWh)

NYPA Transmission Adjustment Charge (NTAC)

Settlement Intermediates:

- None

Settlement Results:

- Hr NTAC Stlmnt: TC (\$)

NYPA Transmission Adjustment Charge (NTAC)

Settlement Algorithm:

$$\begin{aligned} \text{Hr NTAC Stlmnt: TC (\$)} = \\ [\text{Hr NTAC Rate (\$/MWh)} * \{ \text{Hr RT Export Trans: TC (MWh)} + \\ \text{Hr RT Wheel-Thru Trans: TC (MWh)} \}] * -1 \end{aligned}$$

NYPA Transmission Adjustment Charge (NTAC)

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 7, Section 6.7.5
- **Accounting and Billing Manual**
 - Section 7.6.1 (Appendix K)
- **Advisory Billing File**
 - Transaction Customer Section
 - *NTAC Charge \$*
 - Hourly Bill Code: 604
 - Daily Bill Code: 803
- **DSS Corporate Report**
 - Settlement Details – Transaction Customer – NTAC

Transactions – Other Allocations

- Settlement Name
 - NTAC Allocation
 - Non-NYISO Facilities
 - *Ramapo Par*
 - *Station 80 Cap Bank*

Transaction Customer – Other Allocation Settlements

- **Non-NYISO Facilities: Ramapo Par & Station 80 Cap Bank Charge Description**
 - A charge intended to cover NYISO's monthly payments to the owners of facilities needed for economic and reliable operation of NYS Transmission System.
 - Payments Presently issued to...
 - Con Ed Co. of NY for Phase Angle Regulators @ Ramapo interconnection between NYISO & PJM
 - RG&E Corp. for Capacitor Bank @ Station 80

Transaction Customer – Ramapo Par & Station 80 Charge

■ Settlement Eligibility

- Transaction Customers will receive a charge for Ramapo Par & Station 80 Cap Bank if:
 - Transaction Customer purchased energy to meet their load requirements from the NYISO Energy markets or wheeled energy through the NYCA

Transaction Customer - Ramapo Par & Station 80 Cap

■ Settlement Determinants

- Hr RT Export Trans: TC (MWh)
- Hr RT Wheel-Thru Trans: TC (MWh)
- Hr Total NYISO RT LSE Load (MWh)
- Hr Total NYISO RT Export Trans (MWh)
- Hr Total NYISO RT WT Trans (MWh)
- Hr Ramapo Par Cost: TC (\$)
- Hr Station 80 Cost: TC (\$)

Transaction Customer - Ramapo Par & Station 80 Cap

- **Settlement Intermediates**
 - Hr RT TC Ld Ratio Sh: LSE, Exp, WT

- **Settlement Results**
 - Hr Ramapo PAR Stlmnt: TC (\$)
 - Hr Station 80 Stlmnt: TC (\$)

Transaction Customer - Ramapo Par & Station 80 Cap

■ Settlement Algorithm

Hr Ramapo Par Stlmnt: TC (\$) =

$(\text{Hr Ramapo PAR Cost: TC (\$)} * \text{Hr RT TC Ld Ratio Sh: LSE, Exp, WT}) * -1$

Hr Station 80 Stlmnt: TC (\$) =

$(\text{Hr Station 80 Cost: TC (\$)} * \text{Hr RT TC Ld Ratio Sh: LSE, Exp, WT}) * -1$

Where:

Hr RT TC Ld Ratio Sh: LSE, Exp, WT =

$\{\text{Hr RT Export Trans: TC (MWh)} + \text{Hr RT Wheel-Thru Trans: TC (MWh)}\} /$
 $\{\text{Hr Total NYISO RT LSE Load (MWh)} + \text{Hr Total NYISO RT Export Trans (MWh)} +$
 $\text{Hr Total NYISO RT WT Trans (MWh)}\}$

Transaction Customer - Ramapo Par & Station 80 Cap

■ Summary

- A charge intended to cover NYISO's monthly payments to the owners of facilities needed for economic and reliable operation of NYS Transmission System.
- Payments Presently issued to...
 - Con Ed Co. of NY for Phase Angle Regulators @ Ramapo interconnection between NYISO & PJM
 - RG&E Corp. for Capacitor Bank @ Station 80

Transaction Customer – Ramapo Par & Station 80 Cap

Settlement Reference Material:

- **Tariff Reference**
 - OATT
 - Rate Schedule 1, Section 6.1.6
- **Advisory Billing File**
 - Ancillary Services
 - Ramapo Par
 - Hourly Bill Code 639
 - Daily Bill Code 836
 - Station 80 Cap Bank
 - Hourly Bill Code 640
 - Daily Bill Code 837
- **DSS Corporate Report**
 - Settlement Details - Transaction Customer – Ancillary Services