4. USING CUSTOMER SETTLEMENTS INTERFACE

The Customer Settlements Interface (CSI) Main Menu provides authorized MPs with access to their invoice reports, daily reconciliation data, metering reconciliation data, working capital data, and the global, TSC and NTAC rates for which they have permissions.

Users will access the CSI using the same MIS login and password that is used to access Marketplace Bidding and Scheduling.

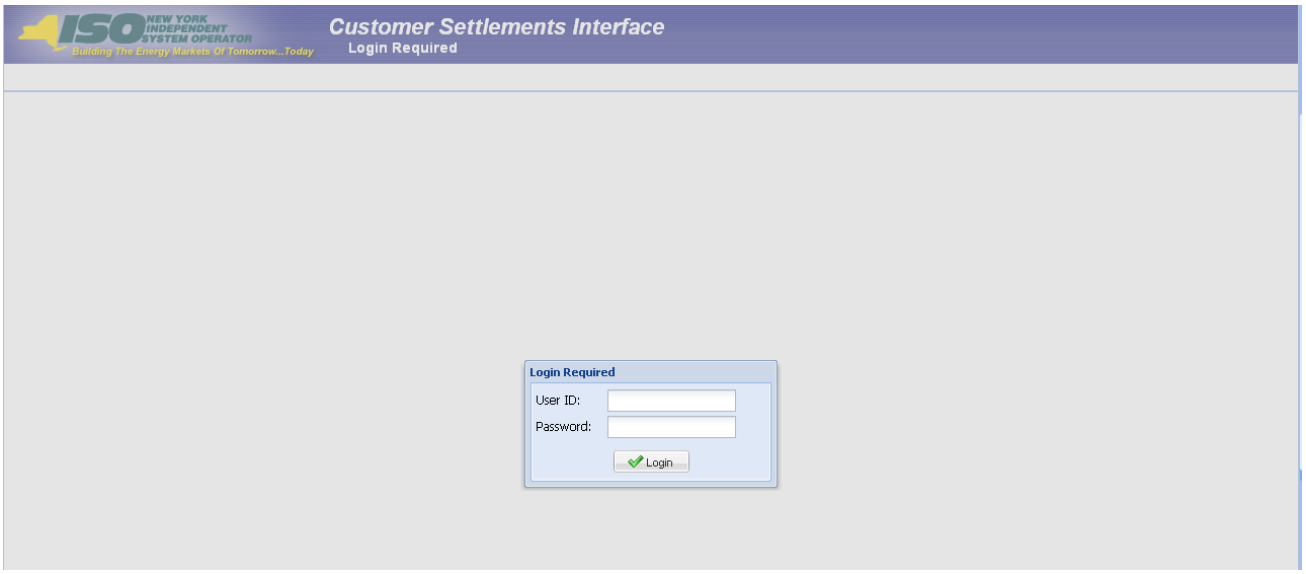


Figure 4-1 User Login

The Customer Settlements Interface **subheading** will display the current option selected by the user.

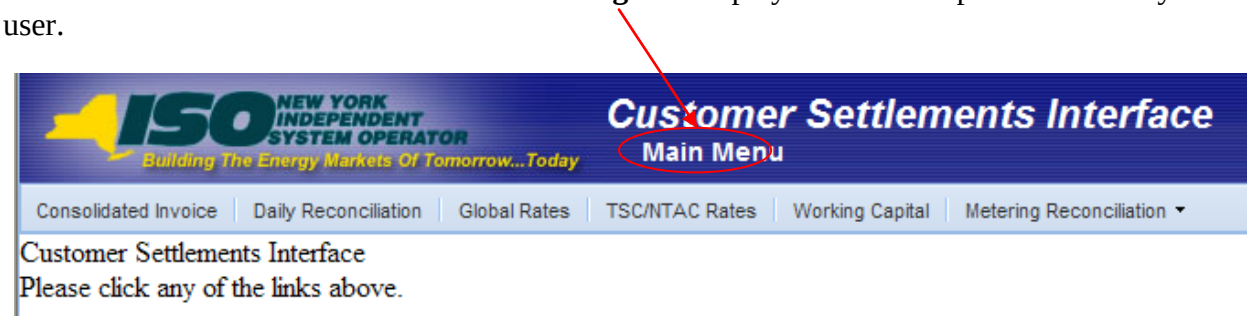


Figure 4-2 CSI Main Menu

4.1 CSI System Requirements

The following requirements have been defined to use the Customer Settlements Interface.

- Browser:
  - ➢ Windows Internet Explorer® (version 7.0) or
  - ➢ Mozilla Firefox™ (version 3.5)
- Javascript setting: Enabled
- Minimum Screen Resolution: 1024x768 page resolution
- Internet Connection

4.2 Consolidated Invoice

The Consolidated Invoice option will provide the user with the choice of requesting their invoice summary or one of their invoice detail reports.

4.2.1 Consolidated Invoice Query

Figure 4-3 Invoice Reports - Query

The query for all invoice reports include the selection of the MP organization, the month and either the **Billing Period Schedule** or the **Invoice Schedule**.

- **Billing Period Schedule** (default): provides MPs with the **invoice dates which include the selected billing month or portions thereof.** This includes invoices which have already been issued and may include the current invoice. This will not include future invoices.
- **Invoice Schedule**: provides MPs with the **invoice dates which occur in the month selected**. This includes invoices which have already been issued and may include the current invoice. This will not include future invoices.

The user enters the filter criteria and clicks on the **View** button. The screen will be refreshed to include the invoices corresponding to the selection criteria. The user will be able to view all applicable invoice dates and their assigned billing periods. Each billing period listed will include their billing period start date, billing period end date and billing period version.

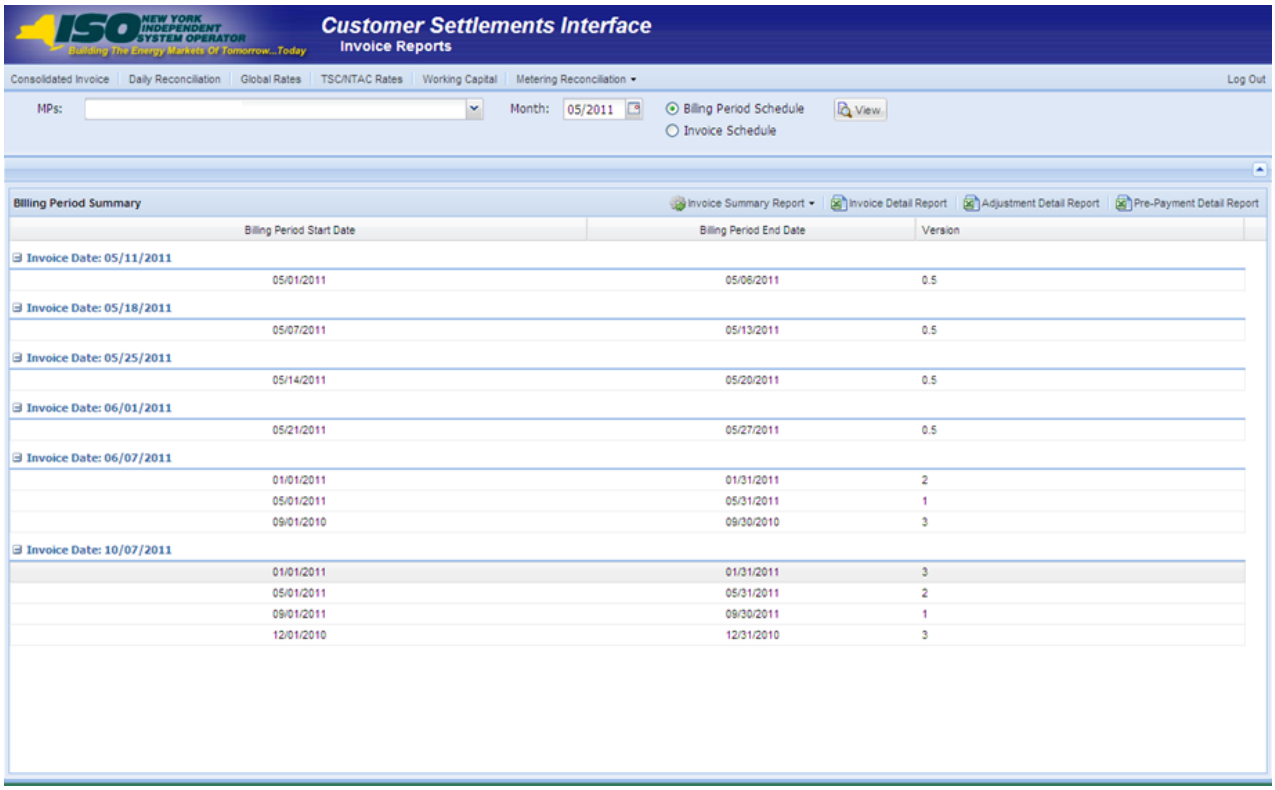


Figure 4-4 Invoice Reports - Query Response - Billing Period Schedule

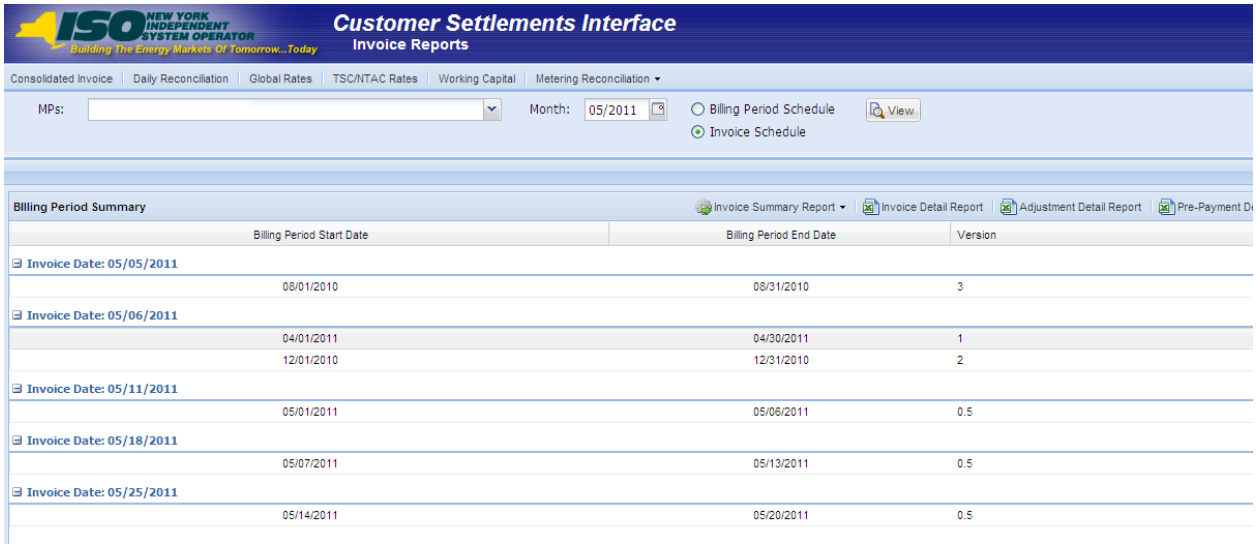


Figure 4-5 Invoice Reports - Query Response - Invoice Schedule

4.2.2 Invoice Reports

Following the query response in the previous section, the user may elect to view the invoice summary report or one of the invoice detail reports.

In order to view any of the invoice reports, the user will select an invoice by highlighting the billing periods associated with the invoice desired, and click on one of the report options.

4.2.2.1 Invoice Summary Report

Users that click on the **Invoice Summary Report** button will have an option to choose the format output of PDF or XLS.

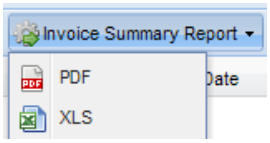
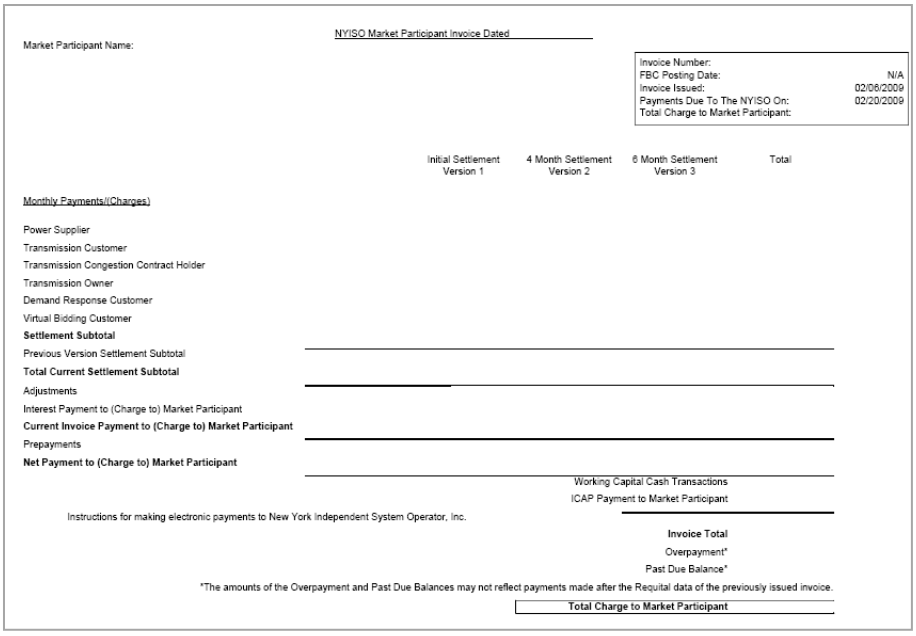


Figure 4-6 Invoice Summary Report - Report Format Selection

After the user clicks on the **PDF** Or **XLS** button, the resulting report will be displayed to the user in the format specified.



NYISO Market Participant Invoice Dated

Market Participant Name:

Invoice Number:	
FBC Posting Date:	N/A
Invoice Issued:	02/06/2009
Payments Due To The NYISO On:	02/20/2009
Total Charge to Market Participant:	

	Initial Settlement Version 1	4 Month Settlement Version 2	6 Month Settlement Version 3	Total
Monthly Payments/(Charges)				
Power Supplier				
Transmission Customer				
Transmission Congestion Contract Holder				
Transmission Owner				
Demand Response Customer				
Virtual Bidding Customer				
Settlement Subtotal				
Previous Version Settlement Subtotal				
Total Current Settlement Subtotal				
Adjustments				
Interest Payment to (Charge to) Market Participant				
Current Invoice Payment to (Charge to) Market Participant				
Prepayments				
Net Payment to (Charge to) Market Participant				

Working Capital Cash Transactions
ICAP Payment to Market Participant

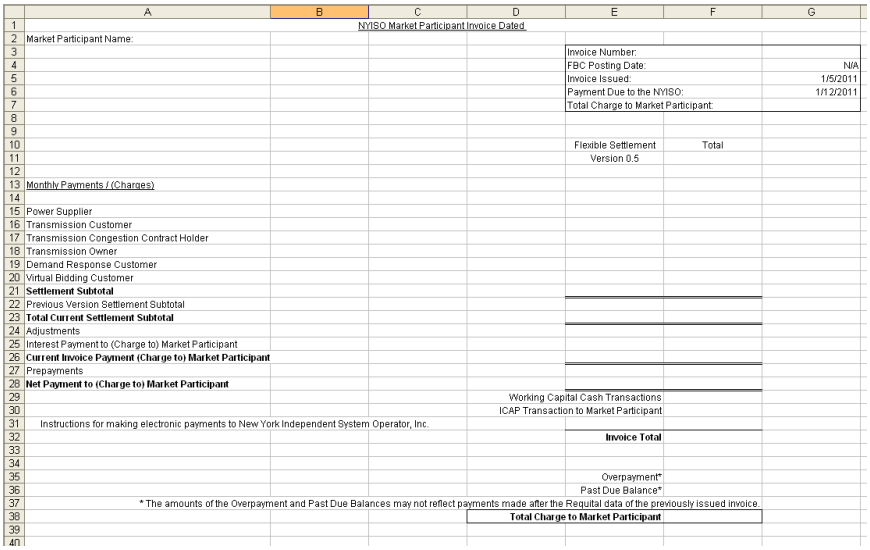
Instructions for making electronic payments to New York Independent System Operator, Inc.

Invoice Total
Overpayment*
Past Due Balance*

*The amounts of the Overpayment and Past Due Balances may not reflect payments made after the Requital data of the previously issued invoice.

Total Charge to Market Participant

Figure 4-7 Invoice Summary Report - PDF Output



	A	B	C	D	E	F	G
1			NYISO Market Participant Invoice Dated				
2	Market Participant Name:						
3					Invoice Number:		
4					FBC Posting Date:		N/A
5					Invoice Issued:		1/5/2011
6					Payment Due to the NYISO:		1/12/2011
7					Total Charge to Market Participant:		
8							
9							
10					Flexible Settlement	Total	
11					Version 0.5		
12							
13	Monthly Payments / (Charges)						
14							
15	Power Supplier						
16	Transmission Customer						
17	Transmission Congestion Contract Holder						
18	Transmission Owner						
19	Demand Response Customer						
20	Virtual Bidding Customer						
21	**Settlement Subtotal**						
22	Previous Version Settlement Subtotal						
23	**Total Current Settlement Subtotal**						
24	Adjustments						
25	Interest Payment to (Charge to) Market Participant						
26	**Current Invoice Payment (Charge to) Market Participant**						
27	Prepayments						
28	**Net Payment to (Charge to) Market Participant**						
29				Working Capital Cash Transactions			
30				ICAP Transaction to Market Participant			
31	Instructions for making electronic payments to New York Independent System Operator, Inc.						
32					**Invoice Total**		
33							
34							
35					Overpayment*		
36					Past Due Balance*		
37	* The amounts of the Overpayment and Past Due Balances may not reflect payments made after the Requital data of the previously issued invoice.						
38				**Total Charge to Market Participant**			
39							
40							

Figure 4-8 Invoice Summary Report - XLS Output

4.2.2.2 Invoice Detail Report

Users that click on the **Invoice Detail Report** will have their requested report displayed in XLS format.

	A	B	C
1	**Power Supplier Statement Monthly Billing Period {09/01/2009}**	Initial Settlement	4 Month Settlement
2			
3	Invoice Date	10/7/2009	2/5/2010
4	Energy (MWh)		
5	300 Forward Energy		
6	303 Balancing Energy		
7			
8	Energy Settlement ($)		
9	301 Forward Energy		

Figure 4-9 Invoice Detail Report in XLS

4.2.2.3 Adjustment Detail Report

Users that click on the **Adjustment Detail Report** will have their requested report displayed in XLS format.

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	NYISO Market Participant Adjustment Details - Invoice Dated January 08, 2010													
2	Market Participant Name:													
3														
4	**Adj ID**	**Billing Montl**	**Eff Date**	**Rev Month**	**LoadRatio D**	**Total MWh**	**Org MWh**	**Adj Amount**	**Interest**	**Total Adjustment**	**Adjustment Type**	**Rev Flag**	**Src Adj ID**	**Comme**
5	No data available for this report													
6	**Total**							**$0.00**	**$0.00**	**$0.00**				
7														

Figure 4-10 Adjustment Detail Report in XLS

4.2.2.4 Pre-Payment Detail Report

Users that click on the **Pre-Payment Detail Report** will have their requested report displayed in XLS format.

	A	B
1	NYISO Market Participant Prepayment Details - Invoice Dated January 08, 2010	
2	Market Participant Name:	Invoice Number:
3		
4	**Prepayments**	
5	**Prepayment Type**	**Prepayment Amount**
6	No data available for this report	
7		
8	**Total Prepayments**	**$0.00**
9		

Figure 4-11 Pre-Payment Detail Report in XLS

4.3 Daily Reconciliation

The **Daily Reconciliation** option will provide the user with their daily reconciliation report.

4.3.1 Daily Reconciliation Query

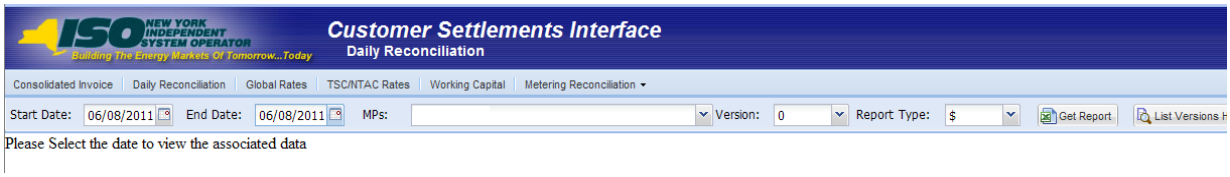


Figure 4-12 Daily Reconciliation Query Screen

The query for daily reconciliation includes following.

- **Start Date**: start date of the request
- **End Date**: end date of the request
  - ➢ Start date and end date must be within the same calendar month
  - ➢ to request a single day, enter the same start date and end date
  - ➢ When requesting multiple days, the data will be summed for the date range.
- **MPs**: listing of valid MP organizations accessible by the user
- **Version**: invoice version of the data
  - ➢ **List Versions History**- provides user with all versions available within the start and end date range (Note: this is no longer a required step)

    Version 0 in the daily reconciliation will include the latest information available for any billing day. However, users should look at the update dates that show up in the billing versions display. Once rebills have started for a period, Version 0 could contain a mix of version runs. For example, April 2009 was billed initially in May 2009 and would have *Last Updated* times in April and May. While the 4-month settlement adjustment is in progress in August, Version 0 could have data for some days updated by the August run while other days will still show data from the April run until all of the rebills are complete in the August run.

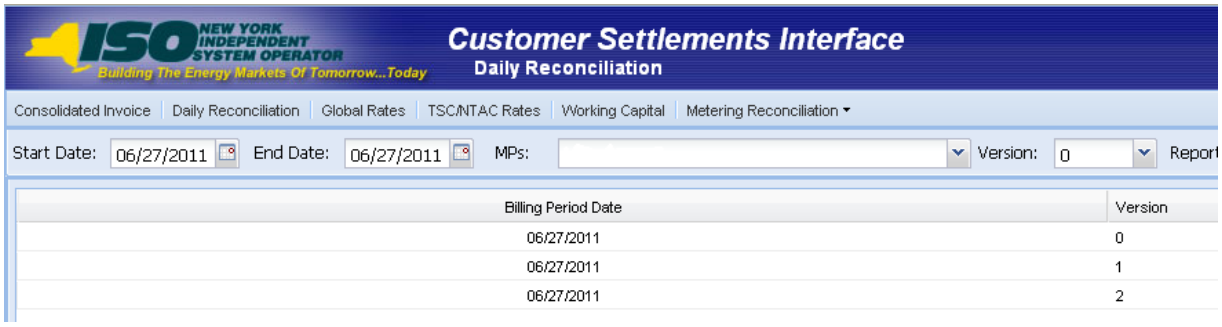


Figure 4-13 List Versions option

- **Report Type**: options include $ (for cash flow reconciliation) or MWh (for transmission service reconciliation)

The user enters the filter criteria and clicks on the **Get Report** button. The requested data will be displayed in an XLS file.

1	SETTLEMENT RECONCILIATION FOR: 06/27/2011 to 06/27/2011 version 0 Report Run Date: Mon Jun 27 13:38:03 GMT 2011						
2	Billing Code		Income		Billing Code		Expense
3	70101	DAM LSE Internal LBMP Energy	0		30101	DAM Internal PS LBMP Energy Purchases Expenditure	0
4	70201	DAM LSE Internal LBMP Losses	0		30102	DAM Internal PS LBMP Losses Purchases Expenditure	0
5	70301	DAM LSE Internal LBMP Congestion	0		30103	DAM Internal PS LBMP Congestion Purchases Expenditure	0
6	75901	DAM External TC LBMP Energy Sales Revenue	0		75903	DAM External PS LBMP Energy Purchases Expenditure	0
7	76001	DAM External TC LBMP Losses Sales Revenue	0		76003	DAM External PS LBMP Losses Purchases Expenditure	0
8	76101	DAM External TC LBMP Congestion Sales Revenue	0		76103	DAM External PS LBMP Congestion Purchases Expenditure	0
9	75902	DAM Replacement LBMP Energy Sales Revenue Due to (	0		30201	DAM NYISO Bid Production Cost Guarantee (Internal Units) Expenditure	0
10	76002	DAM Replacement LBMP Losses Sales Revenue Due to (	0		76801	DAM NYISO Bid Production Cost Guarantee (External Units) Expenditure	0
11	76102	DAM Replacement LBMP Congestion Sales Revenue Due	0		77301	DAM Virtual Supply LBMP Energy Expenditure	0
12	77101	DAM Virtual Load LBMP Energy Sales	0		77302	DAM Virtual Supply LBMP Losses Expenditure	0
13	77102	DAM Virtual Load LBMP Losses Sales	0		77303	DAM Virtual Supply LBMP Congestion Expenditure	0
14	77103	DAM Virtual Load LBMP Congestion Sales	0		78001	DAM Trading Hub LBMP Energy Expenditure	0
15					78101	DAM Trading Hub LBMP Losses Expenditure	0
16					78201	DAM Trading Hub LBMP Congestion Expenditure	0
17					201100	DAM Price Responsive Load Program Incentive Expenditure	0
18					201200	DAM Price Responsive Load Program Reduction Expenditure	0
19					201300	DAM Price Responsive Load Program Penalties	0
20					201400	DAM Price Responsive Load Program Load Balancing Expenditure	0
21					201500	DAM Price Responsive Load Program Bid Guarantee Expenditure	0
22	1	DAM LBMP Revenue		0	13	DAM LBMP Expenditure	0
23							
24	70501	Balancing LSE Internal LBMP Energy	0		30401	Balancing Internal PS LBMP Energy Purchases Expenditure	0
25	70601	Balancing LSE Internal LBMP Losses	0		30402	Balancing Internal PS LBMP Losses Purchases Expenditure	0
26	70701	Balancing LSE Internal LBMP Congestion	0		30403	Balancing Internal PS LBMP Congestion Purchases Expenditure	0
27	76401	Balancing External TC LBMP Energy Sales Revenue	0		76403	Balancing External PS LBMP Energy Purchases Expenditure	0
28	76501	Balancing External TC LBMP Losses Sales Revenue	0		76503	Balancing External PS LBMP Losses Purchases Expenditure	0
29	76601	Balancing External TC LBMP Congestion Sales Revenue	0		76603	Balancing External PS LBMP Congestion Purchases Expenditure	0
30	76402	Balancing Replacement LBMP Energy Sales Revenue Du	0		30501	Balancing NYISO Bid Production Cost Guarantee (Internal Units) Expend	0
31	76502	Balancing Replacement LBMP Losses Sales Revenue Du	0		30502	Supplemental Event Credit	0
32	76602	Balancing Replacement LBMP Congestion Sales Revenue	0		76901	Balancing NYISO Bid Production Cost Guarantee (External Units) Expen	0
33	77401	Balancing Virtual Load LBMP Energy Sales	0		76902	Balancing NYISO Bid Production Cost Guarantee Expenditure due to In I	0
34	77402	Balancing Virtual Load LBMP Losses Sales	0		31301	DAM Contract Balancing [Internal Units] Expenditure	0
35	77403	Balancing Virtual Load LBMP Congestion Sales	0		31401	Energy Limited Resource Balancing per Local Reliability	0
36	70502	Failed Transaction Financial Impact Charge	0		31402	Energy Limited Resource Balancing per ISO	0
37					77501	Balancing Virtual Supply LBMP Energy Expenditure	0

Figure 4-14 Daily Reconciliation Report Example

4.4 Global Rates

The Global Rates option will provide authorized users with global rate data.

4.4.1 Global Rates Query

The query for Global Rates include following.

- **Global Rate Types:** select the name of the Global Rate from a drop-down listing
- **Month**: Month of Global Rate
- **Year**: Year of Global Rate
- **Generators**: select one or more Generators from a drop down listing, where applicable
- **Transmission Providers**: select one or more Transmission Providers from a drop down listing, where applicable

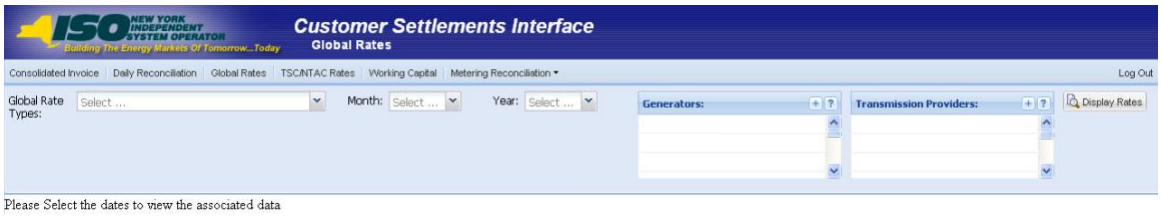


Figure 4-15 Global Rates Query Screen

The user enters the filter criteria and clicks on the **Display Rates** button. The screen will be refreshed to include the requested data.

4.5 TSC/NTAC Rates

The TSC/NTAC Rates option will provide authorized users with the TSC/NTAC data.

4.5.1 TSC/NTAC Query

The query for TSC/NTAC include following.

- **Organization Name:** select the user authorized organization name
- **Calendar Month**: Calendar Month of TSC/NTAC rates

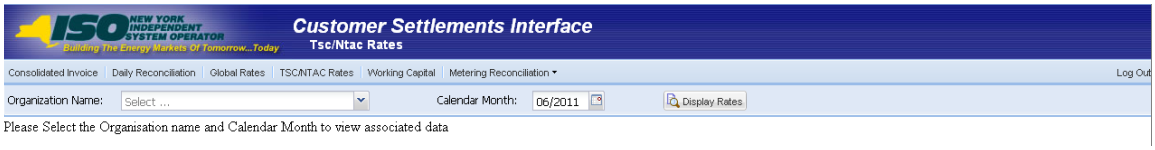


Figure 4-16 TSC/NTAC Query Screen

The user enters the filter criteria and clicks on the **Display Rates** button. The screen will be refreshed to include the requested data. Where applicable, MPs with appropriate permissions will be able to edit the displayed rates.

4.6 Working Capital

The Working Capital option will provide authorized users with their Working Capital data.

4.6.1 Working Capital Query

The query for Working Capital includes the following.

- **Start Date:** select the start date of the query
- **End Date:** select the end date of the query
- **Billing Org**: select the user authorized organization

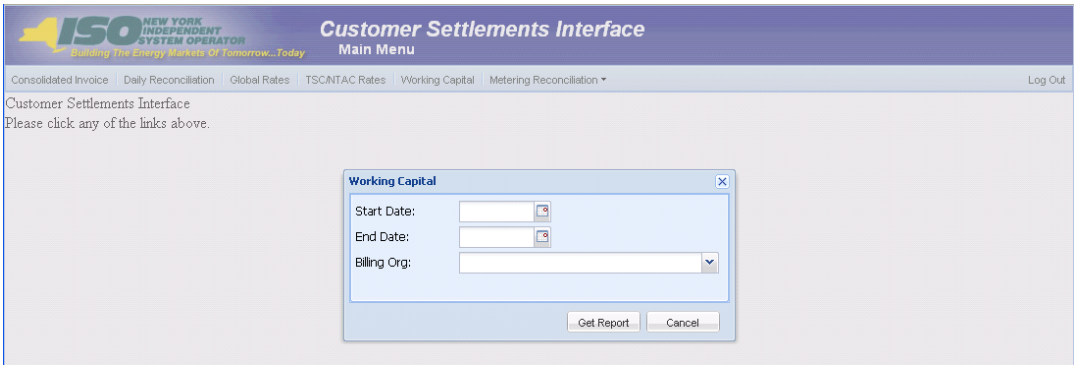


Figure 4-17 Working Capital Query Screen

The user enters the filter criteria and clicks on the **Get Report** button. The requested data will be displayed in an XLS file. To cancel out of the menu option, the user will click on the **Cancel** Button.

	A	B	C	D	E	F	G
1	Working Capital Detail for						
2	Type ID	Transaction Date	Type Description	Amount	Transaction Description	Opening Balance	Closing Balance
3	25	1/31/2010	Distributed Interest	$0.00	Distribution of 2009 interest earned on Working Capital fund.	$0.00	$0.00
4	60	1/31/2010	Annual Reallocation	$0.00	2009 Annual Reallocation of Working Capital Fund (per Attachment V of the OATT)	$0.00	$0.00
5	20	1/31/2010	Allocation Interest	$0.00	Allocation of bank interest earned for January 2010.	$0.00	$0.00
6							

Figure 4-18 Working Capital Detail Report

4.7 Metering Reconciliation

Tie line, generator, subzone, and load bus data may be accessed, reviewed, and updated via the Metering Reconciliation option.

4.7.1 Metering Reconciliation Reports

After the user clicks on the **Metering Reconciliation** button, a drop down list with the following report options is displayed:

- **Calculated Subzone Load**
- **Subzone Load Detail**
- **Gen/Tie Detail**
- **Wholesale Load Bus Detail**

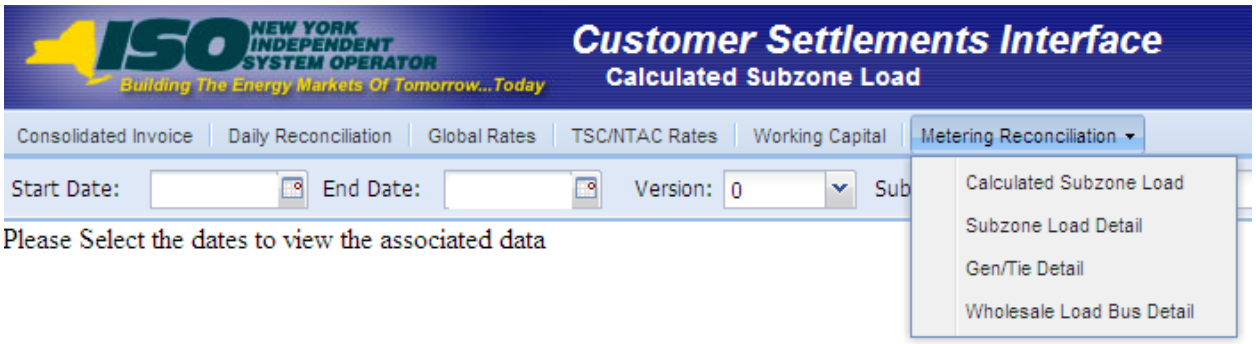


Figure 4-19 Metering Reconciliation Report Option Screen

4.7.1.1 Calculate Subzone Load Report

After the user clicks on the **Calculate Subzone Load** button a query screen will be displayed to the user.

Figure 4-20 Calculated Subzone Load Query

The *Calculated Subzone Load* query allows a meter authority to view their NYISO calculated subzone load for a specific month. The query page includes a drop down menu that is populated with all subzones owned by the meter authority. The user has the ability to choose a single subzone, some or all of their subzones by selecting the appropriate choice from the drop down menu.

The Calculated Subzone Load query page enables the user to select the following query options:

- **Start Date**: Select the start date of the query
- **End Date**: Select the end date of the query
- **Version**: Select the version of the query
  - **List Versions** - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)
- **Subzone**: Select the subzone of the query

The user enters the filter criteria and clicks on the **Get Report** button. The screen will be refreshed to include the requested data.

After the query parameters have been selected, the *Calculated Subzone Load* results page is displayed. For each day in the specified data range, the NYISO-calculated Subzone Load data is displayed, sorted by hour. If there are multiple days in the date range, each day will be displayed separately.

The data detail for the Tie/Gen Total/MWh value is accessible by selecting the **Date/Time** link for that hour.

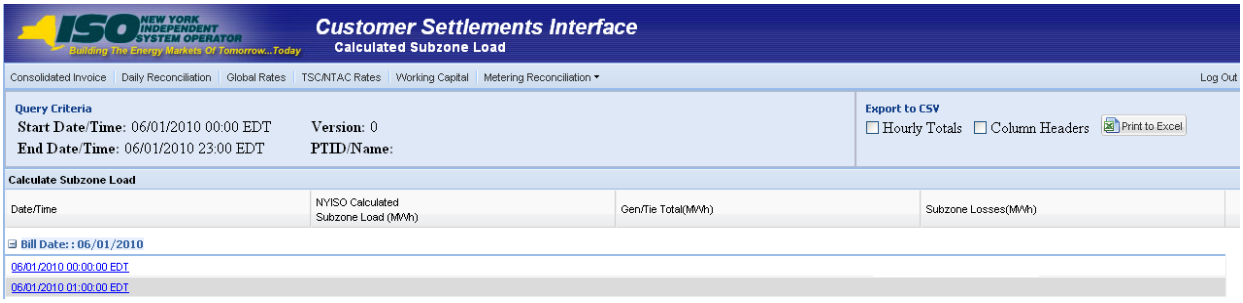


Figure 4-21 Calculated Subzone Load Results page

4.7.1.2 Subzone Load Detail Report

After the user clicks on the **Subzone Load Detail Report** button a query screen will be displayed to the user.

Figure 4-22 Subzone Load Detail Query

The *Subzone Load Detail* query page allows a meter authority to view the generator and tie data used in the NYISO subzone load calculation.

The report includes a drop-down menu that is populated with all subzones owned by the meter authority. The user has the ability to choose a single, multiple, or all of their subzones by selecting the appropriate choice from the drop down menu.

The Subzone Load Detail query page enables the user to select the following reporting options:

- **Start Date**: Select the start date of the query
- **End Date**: Select the end date of the query
- **Version**: Select the version of the query
  - **List Versions** - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)
- **Subzone**: Select the subzone of the query

The user enters the filter criteria and clicks on the **Get Report** button. The screen will be refreshed to include the requested data. Each hour included in the report will be separated by page breaks with their own heading. For each hour, every tie and generator for that subzone will be displayed.

For clear distinction between LESR and non-LESR generators:

- Non-LESR generator and tie-line data is populated in the Gen/Tie Total MWH, MA Reported MWH, and/or ISO PTS MWH columns.
- LESR generator data is populated in the Gen/Tie Total MWH, MA Reported LESR Positive Load MWH, ISO PTS LESR Load Positive MWH, MA Reported LESR Negative Load MWH, and/or the ISO PTS LESR Load Negative MWH columns.

In addition, the Gen/Tie Total (MWh) is displayed with the flow multiplier used in the NYISO calculated subzone load calculation.

The Gen, Tie and Gen/Tie totals for the hour is included at the bottom of each hour section.

From the *Subzone Load Detail* page, the user is able to update their reported values for the ties or generators that they own. Clicking on the **Submit** button at the bottom of the display will submit the updated values.

The Gen/Tie Total (MWh) column will only be populated for PTIDs that are included in the subzone load calculation. For example, the MWhs scheduled by Demand Response Providers (DRPs) are not included in the subzone load calculation; therefore, the Gen/Tie Total (MWh) column will be blank for these units. In addition, the MWh values for the single metered point for grouped units will be blank in the Gen/Tie (MWh) column but the MWh values for each individual unit in the grouped unit will be populated.

The user can view details of a particular generator, tie, or subzone by clicking on the PTID name.

Flow Multiplier for Tie Lines

The following information details how the Flow Multiplier (sign convention) value is used in the subzone load calculation for tie lines.

1. ***Meter Authority (MA) value:*** used by the application for determining the energy flow of the MA supplied tie-line data. The sign convention is necessary in determining the tie line component of the subzone load calculation.

   To Subzone: When the subzone for which the load is being calculated is specified as the 'To' subzone, then the ***'opposite value'*** of what is stored in the Flow Multiplier Meter Authority column, is multiplied by the MA MWh value.

   From Subzone: When the subzone for which the load is being calculated is specified as the 'From' subzone, then the ***'value'*** stored in the Flow Multiplier Meter Authority column, is multiplied by the MA MWh value.

2. ***PTS value:*** In the absence of MA supplied data, the PTS data is used in the subzone load calculation. In these cases, the sign convention of the PTS data must first be converted to the same sign as the MA data. Then the same MA determination is performed as is defined in the previous section.

   1st Step: The PTS data is converted to the MA sign convention by multiplying the PTS MWh value by the Flow Multiplier PTS column value.

   2nd Step: Using the new MWh value resulting from the previous step, apply the same steps as listed in the MA section.

4.7.1.3 Gen/Tie Detail Report

After the user clicks on the **Gen/Tie Detail Report** button a query screen will be displayed to the user.

Figure 4-23 Gen/Tie Detail Query

The *Gen/Tie Detail* report allows a meter authority to focus on grouped or individual generators or tie-lines. The *Gen/Tie Load Detail* query page includes a drop down menu of all generators and ties for which the user has update authorization.

The Gen/Tie Detail query page enables the user to select the following reporting options:

- **Start Date**: Select the start date of the query
- **End Date**: Select the end date of the query
- **Version**: Select the version of the query
  - **List Versions** - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)
- **Gen/Tie**: Select the authorized generators or tie lines; a selection of more than one Gen/Tie is permitted only when the Start Date and End Date are the same day.
  - Advanced filtering will automatically scroll the listing to the first Gen/Tie entry, which corresponds to the letter or number typed by the user in the Gen/Tie drop down listing.
  - To select all Gen/Ties, click the **All** button for all subzones in the listing.
  - To select no Gen/Ties, click the **None** button to clear all subzones in the listing
  - To select one or more Gen/Ties:
    - either click each desired Gen/Tie individually, or
    - press the **CTRL** key then click each desired Gen/Tie in the list, or
    - press the **SHIFT** key then click the first and last Gen/Tie to be included in the report.
- **Gen/Tie – Type**
  - To display all Gens and Ties, click the **All** radio button.
  - To display Generators only, click the **Generators** radio button.
  - To display Ties only, click the **Ties** radio button.
- **Gen/Tie – Sort by**
  - To sort the selection list by PTID, click the **PTID** radio button.

- To sort the selection list by PTID name, click the **Name** radio button.

The user enters the filter criteria and clicks on the **Submit** button. The report output only displays the generators or ties that were selected, and provides the user with the ability to update the meter authority reported MWH. Generators or metering authorities creating queries for tie line, generator, and sub-zone hourly MW data for grouped units should note that the data returned from such query to a Web page will appear ordered first by the single metered PTID for the grouped unit and, secondly, by each individual PTID in the grouped unit.

For clear distinction between LESR and non-LESR generators:

- Non-LESR generator and tie-line data is populated in the MA Reported MWH and/or ISO PTS MWH columns.
- LESR generator data is populated in the MA Reported LESR Positive Load MWH, ISO PTS LESR Load Positive MWH, MA Reported LESR Negative Load MWH, and/or the ISO PTS LESR Load Negative MWH columns. The form requires the user to enter a value for both the LESR Positive Load MWH and the LESR Negative Load MWH. When the user does not enter a value in both fields, an error message will be displayed.

Figure 4-24 LESR Positive/Negative Load MWH-related error message

4.7.1.4 Wholesale Load Bus Detail Query Page

After the user clicks on the **Wholesale Load Bus Detail Report** button a query screen will be displayed to the user.

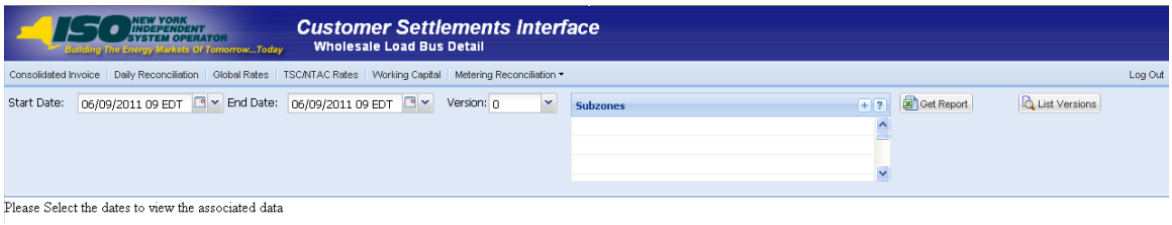


Figure 4-25 Wholesale Load Bus Detail Query

The *Wholesale Load Bus Detail* query page allows the user to choose a date or date/time frame, and a specific subzone for which they wish to review/enter their wholesale load bus data.

The *Wholesale Load Bus Detail* query page enables the user to select the following reporting options:

- **Start Date**: Select the start date of the query
- **End Date**: Select the end date of the query
- **Version**: Select the version of the query
  - **List Versions** - provides user with all versions available within the start and end date range (Note: this step is not required to retrieve the report.)
- **Subzone** – A selection of more than one Subzone is permitted only when the Start Date and End Date are the same day.
  - To select all Subzones, click the **All** button for all subzones in the listing.
  - To select no Subzones, click the **None** button to clear all subzones in the listing.
  - To select one or more Subzones, either click each desired subzone, or press the **CTRL** key then click each desired subzone in the list, or press the **SHIFT** key then select the first and last Subzone to be included in the report

The user enters the filter criteria and clicks on the **Get Report** Button. The report output only displays the PTIDs for which the meter authority is responsible. The user can report and submit wholesale load bus data from this display.