

# PJM Market Settlements Reporting System (MSRS) User Guide

**Market Settlements Development** 

Date



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# 1 PJM MSRS User Guide

Welcome to the PJM Market Settlements Reporting System (MSRS) User Guide.

#### **Intended Audience**

This user guide is for Market Participants who need to use MSRS to:

- · Retrieve and validate PJM weekly and monthly billing invoices
- Retrieve supporting MSRS reports for specific business areas

### **About This User Guide**

MSRS allows you to view recent billing activity and invoices as well as download official billing invoices and other supporting MSRS reports.

After reading this guide, you will understand how to:

- 1 View recent billing activity, details for PJM billing invoices and month-to-date billing, and download MSRS reports.
- 2 Access and download MSRS report files without a web browser.

Additional supporting documentation is available at the end of this guide.

#### **Interfacing With MSRS**

You can interact with MSRS two ways:

• **Through a web browser:** MSRS is available as an interactive tool on pjm.com. Section 2 of this guide shows how to use this tool.

**Note:** The MSRS tool supports Google Chrome.

 Without a web browser: MSRS report files can also be accessed and downloaded through a URL-based browserless API or through PJM's Command Line Interface (CLI). Section 3 of this guide describes how to interact with the browserless URL. More information about PJM's CLI can be found on pjm.com under Markets & Operations > PJM Tools > System Requirements.

#### Access to MSRS

To access MSRS, you must have a valid PJM Tools user account and have MSRS read-only privileges assigned to that account. These privileges can be granted by your Company Account Manager (CAM).

Access MSRS from the <u>PJM Tools homepage</u> or directly at <u>https://msrsapp.pjm.com.</u>

**Note:** Production accounts differ from Train (sandbox) test accounts for PJM Tools. If you do not have either type of account, work with your CAM to provision the accounts or follow the **New User Registration** steps in the <u>PJM Account Manager User Guide</u>.



#### **SUMA Access**

If you have SUMA access, you will be automatically logged into MSRS using the primary account associated with the SUMA account. To update and display other organizations that the account has access to, select the drop-down highlighted below and choose your desired account.

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Browserless users should refer to Section 3 of this guide for SUMA functionality while using MSRS without a web browser.

# 2 Using the Browser-Based MSRS Tool

MSRS is an internet-based application that lets you view recent PJM market billing activity and official PJM invoices, as well as retrieve official invoice files and supporting MSRS report files.

In this section you will learn how to:

- Log in to the MSRS user interface
- Navigate the Recent Billing tab
- Navigate the Billing Details tab
- Navigate the **Reports** tab to download MSRS report files
- Navigate the **Download List** tab to download MSRS report files

#### **MSRS User Interface Access**

Log in to the MSRS application through the PJM Single Sign ON (SSO) screen.

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After validating through SSO, MSRS will open on the <b>Recent Billing</b> active messages.	Transfer Transfer Transfer Transfer Transfer Transfer	
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PJM will perform network maintenance beginning Tuesda	ry, Feb. 23, at 6 p.m. EPT (1800 hours) unt	Il Wednesday,
Feb. 24, Show more		

If there are any messages, scroll down and select Continue to proceed to the Recent Billing tab.



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If there are any alerts or announcements, these will appear when a user has logged in. Select **Hide Alerts** to collapse the announcements or click the **+** icon to see the message details.

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April 2020 Diages Credits Ret Total	Finalized 10:00 50:00 50:00	March 2020 Chirges Credits Net Total	្ត
Wyek to Date	Involves	Week to Date	Revolues.

# 2.1 Recent Billing Tab

The **Recent Billing** tab shows information from the five most recent billing cycles. A billing cycle represents the defined time period covered in a weekly or monthly bill.

The current monthly billing cycle will be highlighted and displayed first on the page. There you can access week-to-date, month-to-date and monthly statement information, as well as see the current status of each bill.

March 2021         In Program           Oranges         (533,494,001,00)           Oranles         543,494,001,00)           Oranles         543,494,001,00)           Oranles         543,494,001,00)           Hert Steal         (552,406,495,57)			In Progress         February 2021         Plastiset           [51,696,081,09]         Charges         (\$126,086,113,29)           [51,791,281,291,291         Charges         (\$126,086,113,29)           [51,791,281,291,291         Charges         (\$126,096,113,29)           [51,791,281,291,291         Charges         (\$127,096,113,29)           [51,791,291,291,291         Charges         (\$197,190,231,28)				icements
Weight In Dato III: mr - 01238 III: mr	Finited Huntoof is Pagess is Regres		West to Date 107:01 - 00:00 10:01 - 00:00 10:07 - 00:01 10:00 - 00:04 10:070 - 00:05 10:070 - 00:05 10:	Position Firsting Protocol Firsting Firsting			
January 2021 Chigan Childto Het Total		Finalized (524,495,162,49) 538,490,495,33 (563,490,717,71)	December 2020 Charges Decision Mat Total		Footned (514,008,399,12) (48,144,402,99 (555,163,475,17)	November 2020 Chages Creats Net Total	
Week to Date	Positive Produced		Week to Take	Product		Weste to Date	Final la Final la



Depending on when the application is accessed, some links in an active month will be inactive because that information is not yet available. Additionally, week-to-date information will not be listed and will only be made available once that time frame becomes active.

# Week to Date

When you select any of the active links under the *Week to Date* header, you

will be taken to the **Billing Details** tab (so long as the bills are in progress or have been finalized). Once there, data will be displayed for the selected billing month and billing period. You can also download week-to-date billing information as XML, CSV or PDF files by clicking the icons under the *Invoices* column.

# **Monthly Statement**

When you click a **Monthly Statement** link, you will be taken to the **Billing Details** tab to view a detailed statement. You can also download your statements as XML, CSV or PDF files by clicking the icons under the *Invoices* column.

# Month-to-Date Bill

When you click the **Month-to-Date Bill** link, you will be taken to the **Billing Details** tab where you can see month-to-date details for that month. You can also download this information as an XML or CSV file by clicking the icons under the *Invoices* column. Month-to-date information is not available as a PDF.







### **Bill Status**

Under each billing cycle, you will see the status for each bill ("In Progress" for the current month and "Finalized" for all other billing cycles), charges, credits and the net total for the account being accessed.



# **Quick Resources**

A list of resources are available on the **Recent Billing** tab. Available resources are PJM Guide to Billing, Billing Calendar, Example Billing Statement, and MSRS User Guide.

Quick Resources
PJM Guide to Billing
Billing Calendar
Example Billing Statement
MSRS User Guide



# 2.2 Billing Details Tab

The **Billing Details** tab provides details for billing months and other billing periods.

To see the Weekly Statements or Weekly Month-to-Date Statements select the XML, CSV or PDF icons for Weekly Statements and the XML and CSV icons for Weekly Month-to-Date Statements (PDF is not a supported format).

Recent Billing	Billing Details Re	ports Downloa	ud List (0)			
Billing Month *	December 2019	Billing Periods *	Invoice: 12/1 - 12/04	Search     Clear		
December 2019 - Weekly Statement XML CSV PDF 12/01/2019 - 12/04/2019						

Customer ID 0

You can also filter by month and/or more granular billing periods. These filters can be reset by clicking Clear.

#### Invoice View

Charges, Credits and Net Total values for the Billing Month and Short Name SDSN Billing Periods are shown in the Billing Periods – Invoice view Charges (\$2,814,837.28) for the selected time frame. Credits \$5,835,371.38 International Print Print Internation (1) Net Total (\$8,650,208.66) Inexa (111-112) \* Seat 1 1 percent 2012 Add to Download List January 2021 - Weekly Statement 10.000.007.04 18,818,071,18 101012031-01001203 Charges **B**(Associated Report A lost lowber live g fatisting fast statist things printing the same charges 1210 Oxy-sheet Transmission Competition 12.509.076.03 Note: The values for Charges, Credits and **BLI Associated Reports** Net Total are updated according to the billing month and billing periods selected. NITS Charge Summary

The Charges table includes an item's ID, Line Item, Footnotes, Current Amount and BLI Associated

Spot Market Energy Charge Summary Energy Market and Congestion Loss Charge Details Spot Market Energy Charge Summary Energy Market and Congestion Loss Charge Details

Reports and can be sorted and filtered. Click a link in the BLI Associated Reports column to download the report.

**Note:** For additional information on associated BLI ID's and MSRS report correlation, see PJM's <u>Guide to Billing</u> (PDF), which currently lists some of the main supporting MSRS reports with billing line items. Additionally, PJM's <u>MSRS Report Standards</u> (PDF) detail the relation of column numbers on reports to billing line items.



Once a Billing Month and Billing Period have been selected, you can then download the report immediately or add it to the Download List.

Download options for Weekly Statements are available in XML, CSV and PDF formats and by selecting individual or batch BLI Associated Reports, using the check box option, when a Billing Period is selected under the **Invoice** option. Month-to-Date bills can be downloaded by selecting the **Month-to-Date** option for the Billing Period. Month-to-Date bills are available for download in XML and CSV formats.

Recent Billing Billing Details Reports Downloa	d List (0)
Billing Month * January 2021 Billing Periods *	Invoice: 01/1 - 01/06 - Search Clear
	Involce
January 2021 - Weekly Statement	January 2021 Monthly
sumary rout meenly statement the	01/1 - 01/06
01/01/2021 - 01/06/2021	01/1 - 01/13
	01/1 - 01/20
Charges	01/1 - 01/27
ID.\$	Month-to-Date 🛊
	lanuary 2021 Monthly *

All available reports within a billing period can be downloaded at once by clicking the check box in the headers under Charges and Credits. Once a report or reports have been selected, you can click **Add to Download List** or **Download**.

12/01/2 Chare	2019 - 12/04/20	119						Disrupti Counts Rev Solution	54,018,014 52 54,158,014,00 544,105,017,00 544,105,017,00
erner p						Continue?	Bildesented Reserve		
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	1 200 second blaget 200 becomes to 200 because	an In Taiwan Intern H	chen f	Success: The Recent Billing	ielect Willing	ed reports we	re successfully added to the download list.		
				Billing Month *	anuar	y 2021	Billing Periods * Invoice: 01/1 - 01/06 •	Search Cla	ar.



After clicking **Add to Download List**, the selected reports will be added to the **Download List** tab, so they can be downloaded later.

1

After clicking **Download**, the selected reports will be downloaded in the default format associated with each report. To download the report in a different format, you can customize the format from the **Reports** tab. A progress bar will appear indicating that the download is being prepared. Once this is complete, a file will be generated for download.

ſ	Preparing download	2
	<u> </u>	

Warning You cannot download more than 25 reports at a time.

Reports can be downloaded in batches of 25 at a time. This does not impact the amount of reports that can be added to the Download List. A

warning message will appear when that limit has been reached.

# Maximum Date Ranges

Some reports have maximum date ranges where the minimum billing period exceeds that time frame.

For example, the Energy Market and Congestion Loss Charge Details report cannot be downloaded or added to the Download List from the **Billing Details** tab by default for a billing period of 12/01–12/04. This is because the maximum date range for that report is one day.

🚹 Error: Energy Market and Congestion Loss Charge Details: The maximum Energy Market and Congestion Loss Charge Details date range for this report is 1 days
Recent Billing         Billing Details         Reports         Download List (0)
Billing Month * December 2019 Billing Periods * Invoice: 12/1 - 12/04  Search Clear
December 2019 - Weekly Statement (W) (C) (D)
12/01/2019 - 12/04/2019

To add this report or others with a similar issue to the Download List or to download immediately, navigate to the **Reports** tab and enter the start date and end date for the same day (or the appropriate maximum date range for that report). Then select the report category in the **View By** drop-down and select **Search**. Select the report to activate the **Add to Download List** and **Download** options.

Recent Billing Bi	ting Details Rep	nts Devertised Lint. (0)	
Start Date * 12/1	(19 End Date -	12/1/19 () Wew By * Energy	· Search Reart
12/1/19	12/1/19	Ewrp/	Energy Initialance Summary
12/1/19	12/1/19	Erengy	Energy Harlet and Congestion Loss Charge Details



The following error message will occur when a batch of reports selected has a report included with a maximum date range that has been exceeded:



#### Month-to-Date View

Static data for the Customer ID, Short Name, Monthly Billing Net Total, Last Weekly Billing Total and Total Due/Receivable is displayed in the header of the page for the selected time frame.

Recent Billing	Billing Details	Reports	Downloa	d List (0)			
Billing Month *	December 2019	Billing	Periods	Month-to-Date	: 12/1 · 12/04 ·	Search	Ciear
December 2	019	(AHL) (0	2].				

Rocent Billing Billing Details	Reports Download List (0)	
Billing Month * January 2021	Billing Ferlods * Month-to-Date; January 2021 Monthly • Search Clear	Customer ID 0 Short Name SDSN
January 2021 sonthly MTD 01/01/2021 - 01/31/2	( <u>xw.</u> ) ( <u>czw.</u> ) 2021	Monthly Billing Net Total (\$63,446,717.71 Last Weekly Billing Total (\$48,082,591.87
		Total Due / Receivable (\$15,364,125.84

The Charges, Credits and Net Totals sections include the following details:

- Billing Line Item ID
- Line Item
- Footnotes (ability to show if an adjustment has occurred)
- Current Amount

- Billing Periods (will only display the billing period selected in the Billing Periods drop-down)
- Total Charges (sum of charges)
- Total Credits (sum of credits)
- Net Total (sum of charges and credits)



Within the Charges and Credits sections, information can be filtered by ID, Line Item and Current Amount and can be sorted in ascending or descending order. Line Items and IDs can also be searched.

Billing Mor	th * January 2021 Billing Periods *												
January Monthly MTD	2021 (XML) (	-	4104	( inter 10) Mity bina ( in	 er (eren 101 m	en e (199	•) [Bar]						
Charges		Cher	ary 3 Lutting	494 (1997) N. 492 (1997) N. 492 (1997)									
1D \$	Line Item *	1.2	•	Una facilità	Adapted	Secondary.	(anter) Insent P	#11000tr	1140001	9404001	0400	999900	0.000
	1		1	Want Degree Treemar lands			STATISTICS.	DALAPLER	TAL ALL P	DALASS.	744.88.41	1041.091.08	34.014
		- 12	-18	Reportation Liference of		10.000	28,494.00	2.8	10.85	0.09	26.90	91-92	20.00
1100	Network Integration Transmission Service			Received Value and			30.074.544.01	30.50	10.50	10.00	10.00	91.01	9.8
	The end of the grade of the manufacture and the	199		Percentages Difference 1	 *	20100	20-201-41	2.8	20-80	5.47	10.40	20-96	20.00
1108	Transmission Enhancement"												
1108	Transmission Enhancement*												

To view billing line-item value details, select the **Month-to-Date** option in the **Billing Periods** drop-down:

Recent Billing Billing Details Reports Download	List (1)	
Billing Month * January 2021 Billing Periods *	Involce: 01/1 - 01/06 • Search Clear	
January 2021 - Weekly Statement 💷 🧰	01/1 - 01/27 Month- to-Date	
01/01/2021 - 01/06/2021	Zanuary 2021 Monthly 01/1 - 01/06	
Charges	01/1 - 01/13	
	01/1 - 01/20 01/1 - 01/27 - • • • • • • • • • • • • • • • • • •	mount \$



This selection shows the ID, Line Item, Footnote, Adjustments, Source Date, Current Amount and dates (dates shown will reflect the time selected in the **Billing Periods** drop-down) for billing line items. Information can be filtered by ID, Line Item and Current Amount for Charges and Credit.

	01/01/2021 - 01/31/2021						
arges ID \$	Line Item \$	0	Adjustments 🕈	Source Date \$	Current Amount \$	01/1/2021	01/2/2021
1100	Network Integration Transmission Service				\$16,815,850.45	\$541,615.87	\$541,61
1108	Transmission Enhancement*		A	11/01/2019	\$18,464.00	\$0.00	3
1108	Transmission Enhancement*				55,074,344.03	\$0.00	5
1108	Transmission Enhancement^		A	01/01/2019	\$21,057.43	50.00	S
1108	Transmission Enhancement*		A	03/01/2019	\$21,017.51	\$0,00	S
1108	Transmission Enhancement*		A	02/01/2019	\$20,913.87	\$0.00	S
1108	Transmission Enhancement*		A	05/01/2019	\$20,686.57	\$0.00	1
1108	Transmission Enhancement*		A	04/01/2019	\$20,641.09	50.00	3
1108	Transmission Enhancement*		A	06/01/2019	\$19,472.43	50.00	5
1108	Transmission Enhancement*		A	07/01/2019	\$18,954.59	\$0.00	5
1108	Transmission Enhancement*		A	08/01/2019	\$18,840.86	\$0.00	5
1108	Transmission Enhancement*		A	09/01/2019	518,809.23	50.00	5
1108	Transmission Enhancement*		A	12/01/2019	\$18,568.85	\$0.00	3
1108	Transmission Enhancement*		A	10/01/2019	\$18,545.60	\$0.00	5
1115	Transmission Enhancement Settlement (EL05-121- 009)*				\$152,952.81	\$0.00	s
1130	Firm Point-to-Point Transmission Service*				\$0.00	\$0.00	S
1133	Firm Point-to-Point Transmission Service Resale				\$761,789.04	524,573.84	\$24,57
Total harges					(\$24,955,762.49)	(\$231,592.64)	(\$201,135.12
edits							
ID O	Line Item \$	0	Adjustments 🕏	Source Date \$	Current Amount \$	01/1/2021	01/2/2021
2100	Network Integration Transmission Service				50.00	50.00	4
-100		-	1777	** (01 (2048	62 400 35	50.00	-



# 2.3 Reports Tab

The **Reports** tab lets you generate and download MSRS reports. To generate a specific report or all reports for a certain time frame, the **Start Date** and **End Date** and **View By** options must be selected. Once selected, click on **Search** to populate the reports or **Reset** to clear the fields.

∳∕pjm ∣	MSRS				6	
Recent Billing	Billing Details	Reports	Download List (0)			
Start Date *	5/1/21 End	Date * 5/1	/21 💿 View	v By * Billing (Monthly)	,	Search Reset

Once the reports have been generated, you can choose to Add to Custom Category, Manage Custom Categories (if a Custom Category has already been created), Add to Download List or Download. Select a report or reports, then click one of the options to complete that action. To select every report, click the check box in the header.

	Contraction of the second					Saline F
ьdd	to Custom Cate	ory Manage Custom Categories			Add to Download L	ist Downlo
2	Start Date	End Date	Rithgeond Lorenz Rithgeond Lorenz	Version -	Format	Company
1001	STORE STORE	A Contraction of the Contraction	Name and the first test designment of the Tanan States Street	-		
		Bidg (Bodd)	Territory Sea Mill (197) and 205		Lakes a	NY + CONVAC
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0 0 0 0	9100 9100 9100 9100 9100 9100	Anny Sector	North State (1994) - Diray (19) North State (1994) - Diray (19)		Lass	197 - 2200744
0.0 0 0.0	Road Road Road Road Road Road Road Road	Marganese Marganese	Series Inglighter (Control) Series Englighter (Control) Series Englishter (Control)		1448 F	197 + 1200744

Change the number of records you see per page by choosing 10, 25 or 50 from the dropdown menu at the bottom of the screen.

Records Per Page: 10 🗸	~~	<	1-10 of 188 records	>	»
------------------------	----	---	---------------------	---	---



# Add to Custom Category

To add a report or reports to a Custom Category, select the reports you want added and click **Add to Custom Category.** To select every available report, click the check box in the header.

Add t	o Custom Category	Manage Custo	om Categories	
	Start Date	End Date		Category 🗢
	5/1/21	5/1/21	Billing (Monthly)	
	5/1/21	5/1/21	Billing (Monthly)	Add to Custom Category
Next, o <b>Subm</b> Once availa	create a name it. To go back the Custom Ca ble in the <b>View</b>	for the custo click <b>Cance</b> ategory has l <b>y By</b> drop-do	om category then click el. been created, it will be wn.	New category name     MSRS User Guide      Cancel     Submit      Indicity Disting Just Cincel: * Gay allo onte
flacent fil	ling Billing Details	Reports Deveload	Cast (D)	
Start Dat	e 1 5/1/21 Ent D	ne * 5/1/2t	0 View By 1 / ISRS User Guide	Seets Anat
Add to 1	Lanux Category	e Custon Categories		
0	Start Data End	Date	Category #	Add to Custom Category
	81721 (\$/1721 91721 (\$/1721	Billing (Hont	Nijā (	MSRS User Guide
Once	the Custom Ca	ategory has	been created, you can	New category name
	altional report	s by selectir	ng a report, then clicking	Cancel Submit
	m Catagony th	eyory. TOU		
Custo	in Calegory In:	al you nave		
Maue	IL. TO GO DACK	CIICK Cance	H.	

To view reports within the categories, select the name in the View By drop-down and click Search.

Recent Billing Billing Details Reports Download List	(0)
Start Date * 5/1/21 End Date * 5/1/21 ()	View By * Billing (Monthly)
Add to Custom Category Manage Custom Categories	Q   Custom Categories
Start Date End Date	Categories Billing (Monthly)
5/1/21 5/1/21 Billing (Monthly)	Billing (Weekly)



#### If a report already exists within a Custom Category, the following will appear:

*Balancing Transmission Congestion Load Reconciliation Credit X Summary" report already exists in "Fixed Error"

Only 15 Custom Categories can be created per user. If you exceed this limit and attempt to create more categories, a message will display stating that you cannot have more than 15.

You cannot have more than 15 custom categories	
New category name	
	Cancel Submit

# **Manage Custom Categories**

Once a Custom Category has been created, it can be managed or deleted by selecting **Manage Custom Categories**. If you would like to delete individual reports from within a category, select the reports that should be deleted and click **Delete Report**.

Click **Delete Custom Category** to delete the category and all of the reports contained within it. Once the category has been deleted, it will no longer be available in the **View By** drop-down menu.

Recen	t Billing Billing D	etails Reports	Download List (0)					
Start	Start Date * 5/1/21 End Date * 5/1/21 (?)							
Add	to Custom Category	Manage Custom Categories						
	Start Date	End Date						
	5/1/21	5/1/21	Billing (Monthly)					
	5/1/21	5/1/21	Energy					

anage Custom Categories					
				Delete Report Dele	te Custom Category
MSRS User Guide		Category #		Name Ø	Company \$
	2	Billing (Monthly)	BLI Adjustmer	nt Summary	COMPANY
		Energy	Balancing Ger	nerator UNP Charges	COMPANY



Click Yes in the pop-up message to confirm deletion. Click No to cancel.

#### Add to Download List

Reports can be added to the Download List from within the **Reports** tab. To add reports to the Download List, select the reports individually or select every report on the page by clicking the option in the header and click **Add to Download List**.

Second Hilling - Hilling Second. Marginson - Second and (1)	Cu Sh	stomer ID 0 ort Name SDSN
Mite Learne Season ( Arrent Learne Campion ) Derstan Factors ( Arrent Learne Campion )	Delete Category Report	Download
De lange lan	Are you sure you want to delete the selected reports from category "MSRS User Guide"?	OMPANY • OMPANY •
Recent Billin Are you sure you want to de <b>Note</b> : Once number of reports that have been and	Plete the category "MSRS User Guide"?	

# Download

Selected reports can also be downloaded directly from within the **Reports** tab. To download reports, select the appropriate **Start Date**, **End Date** and the **View By** option and click **Search**. This will generate a list of reports that can be selected individually or all at once by clicking the select all box in the header. Then click **Download**.

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The select all check box only selects the reports shown on the current page. For example, if the records per page is set to 10, and your list includes 20 reports, only the first 10 reports in that list will be selected.





A progress bar will appear indicating that the download is being prepared. A file will be generated once this is complete.

Messages at the top of the screen of the **Reports** tab will appear when actions are completed successfully. Some examples are:

**Note:** The Month-to-Date SUMA report supports downloads and allows for multiple organization downloads. This has a different design structure than the Month-to-Date Bill report and includes a new column to help differentiate between organizational data when multiple are present.



Reports can be downloaded in batches of 25 at a time. This does not impact the amount of reports that can be added to the Download List. However, once added to the Download List, only 25 reports will be downloaded at a time. A

warning will occur when that limit has been reached.

Warning You cannot download more than 25 reports at a time.

# 2.4 Download List Tab

Reports can be added to the **Download List** tab from the **Billing Details** tab and **Reports** tab. When the Download List is empty, the **Delete** and **Download** buttons are both inactive.

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tid records found.					



Once reports have been added to the Download List, the **Delete** and **Download** buttons will become active when reports are selected. Reports can be selected individually or all at once.

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7	Category 9	Nate 8	Dates #	Forma	it •	Company 🗘
2	Nilling (Manthay)	N.I Adjustment Sammery	prost2000 - 01231/2020		-	
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n	failing (meddy)	Weekly Billing Statewert Recipierts	01/01/2028 - 04/31/2028	Latest	CIV.	COMMY!

The example below shows three individual reports selected out of a selected larger number of available reports.

The select all option in the header will select every report on the page. However, only 25 reports can be downloaded at time. There is no limit to how many reports can be deleted at one time.

If more than 25 reports are selected, the **Download** option will remain inactive, and a warning prompt will be generated.

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	Category #	Name B	Dates 2	Version 2	Format 2	Company #
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	Billing (Mandday)	BJ Davide Summary	01/01/2020 - 01/31/2020	Latest	C39.	COMPANY.
	Billing (Monthly)	Market to market Adjustment to Transmission Cargettion Credit Details	01/01/2020-01/21/2020	Laters	- 234	COMMON
	Billing (Marchily)	Awards to-Date Bill - CSV and XM.	01/01/2020 01/21/2020	Latest	CIV.	CORPANY!
	Tilling (Merthic)	Month to-Bate Bill SilMa - Cilv and MA.	01/01/2020-01/21/2020	Lanes	1.000	COMPANY
	Billing (Mendday)	Monthly Billing Statement - CSV and Mill	01/01/2006 -01/31/2020	Laterst	CIV	COMPANY
-	Billing (Month)	Monthly Billing Statement - Unlive and PSF	91/01/2020 - 01/11/2020	Saturd	918	-C2864097

After clicking **Download**, a progress bar will appear indicating that the download is being prepared. A file will be generated once this is complete.



Once a report in the Download List has been deleted or downloaded, it will be removed from the list.

**Note:** The date range for a report cannot be changed once it has been added to the Download List. To edit any information associated with the download, navigate to the **Billing Details** or **Reports** tab > make edits > select the options for download > add to Download List.



Reports in this section can be sorted and filtered by Category, Name, Dates, Version, Format and Company. Category and Name can also be searched by text.

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# 3 Using the MSRS Tool Without a Browser

MSRS can also be accessed without a web browser. You can access and download report files through a URL-based browserless API or through PJM's Command Line Interface (CLI).

The Rest URL can be used and accessed in several ways including: curl, Excel macro/visual basic, or any other programming language that can send HTTP requests. More information on PJM's CLI can be found on the <u>System Requirements page</u> for PJM Tools.

# **Browserless HTTP Coding Examples**

New browserless URL and token-based authentication examples are available:

- Coding Examples for Browserless HTTP Request with Token Based Authentication (PDF)
- Instructions for Using the Browserless.do URL SUMA and New Authentication (PDF)

# **CLI Functionality**

The refreshed MSRS application is now included as part of PJM's CLI functionality (ZIP).

For troubleshooting, please contact the Market Settlements Development Department.

# 4 MSRS Supporting Documentation

- Reports
- Instructions for Using the Browserless.do URL SUMA and New Authentication (PDF)
- <u>Coding Examples for Browserless Token Based (PDF)</u>
- MSRS Refresh FAQ (PDF)
- <u>Refreshed MSRS Demonstration</u>
- MSRS Release Notes
- Member Community