

MSRS Technology Refresh Mockup

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- Improve browser compatibility
- Create consistent User Interface (UI) look and feel, similar to other PJM Tools
- Create supportable framework for PJM development staff to manage new report development and changes
- Implement standard token-based security for authentication



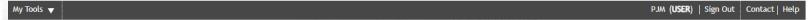
- Maintain current SUMA capability
- Improve report request throughput
- Support enhanced functionality
- Minimize impact to users for browserless report requests
 - Maintain API protocols and standards



High-level recent billing activity

monthly Month-to-Date Bill for current month

View billing activity for past 3 months



pim MSRS

ORGABC



Recent Billing

November 2019

October 2019 Charges

Credits

Net total

Week to date

10/1 - 10/7

10/1 - 10/14

10/1 - 10/21

10/1 - 10/28

10/1 - 10/31

Month to date

Monthly statement

Previously billed total

Credits	harges redits			
Net total		\$2,880.0 \$24,052. 0		
Week to date		Invoices		
11/1 - 11/7	Finalized	XML CSV PDF		
11/1 - 11/14	Finalized	XML CSV PDF		
11/1 - 11/21	In Progress			
11/1 - 11/28	Not Started			
11/1 - 11/30	Not Started			
Month to date	In Progress	XML CSV		

Finalized

Finalized

Finalized

Finalized

Finalized

Finalized

Finalized

In Progress

Finalized

\$21,172.00

\$2,880.00

\$28,987.00

\$24,052.00

XML CSV PDF

XML CSV

Invoices XML CSV PDF September 2019

Previously billed total

Charges

Credits

Not Started December 2019 Billing cycle begins on 12/1

> Finalized \$21,172.00 \$2,880.00 \$28,987.00

Net total		\$24,052.00			
eek to date		Invoices			
9/1 - 9/7	Finalized	XML CSV PDF			
9/1 - 9/14	Finalized	XML CSV PDF			
9/1 - 9/21	Finalized	XML CSV PDF			
9/1 - 9/28	Finalized	XML CSV PDF			
9/1 - 9/31	Finalized	XML CSV PDF			
Monthly statement	Finalized	XML CSV PDF			
Month to date	Finalized	XML CSV			

August 2019	Finalized			
Charges	\$21,172.00			
Credits	\$2,880.00			
Previously billed total	\$28,987.00			
Net total	\$24,052.00			
Week to date		Invoices		
8/1 - 8/7	Finalized	XML CSV PDF		
8/1 - 8/14	Finalized	XML CSV PDF		
8/1 - 8/21	Finalized	XML CSV PDF		
8/1 - 8/28	Finalized	XML CSV PDF		
8/1 - 8/31	Finalized	XML CSV PDF		
Monthly statement	Finalized	XML CSV PDF		
Month to date	Finalized	XML CSV		

Quick Resources/Announcements

Next payment due Nov 12, 2019 View billing calendar

PJM billing statement line items

Open Access Transmission Tariff items

Customer guide to billing MSRS report dictionary

Accounting Mmanuals

Operating Agreement

Recent Billing

Quick links to pjm.com resources

Download & monthly invoices, monthly Monthto-Date Bill

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Month-to-Date Bill: weekly/monthly view

XML & CSV downloads

Filter by Billing Line Item ID or Name



Billing Details

Filter by specific billing period

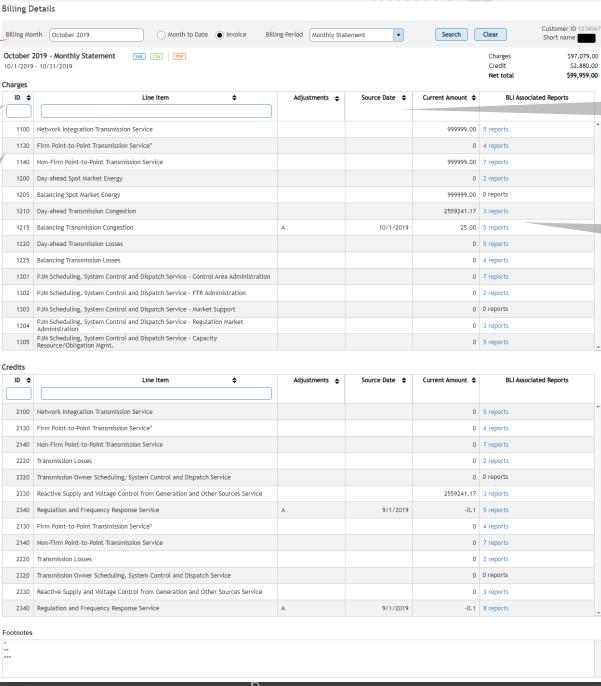
Adjustments & Source date



Finalized Invoice: weekly/ monthly view

XML, CSV & PDF downloads

Filter by Billing Line Item ID or Name



Billing Details

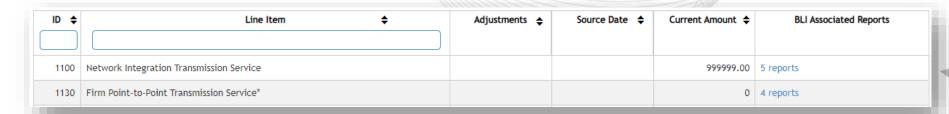
Adjustments & Source date

BLI Associated Reports

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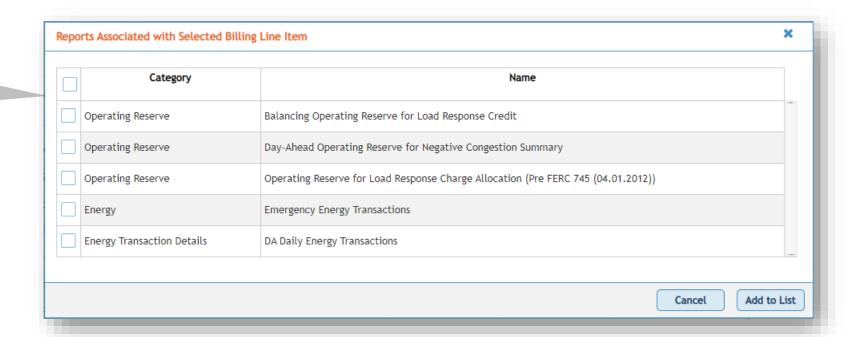


Billing Details - BLI Associated Reports



List of reports that can be used to calculate the BLI charge or credit

Ability to select & add these reports to the download list



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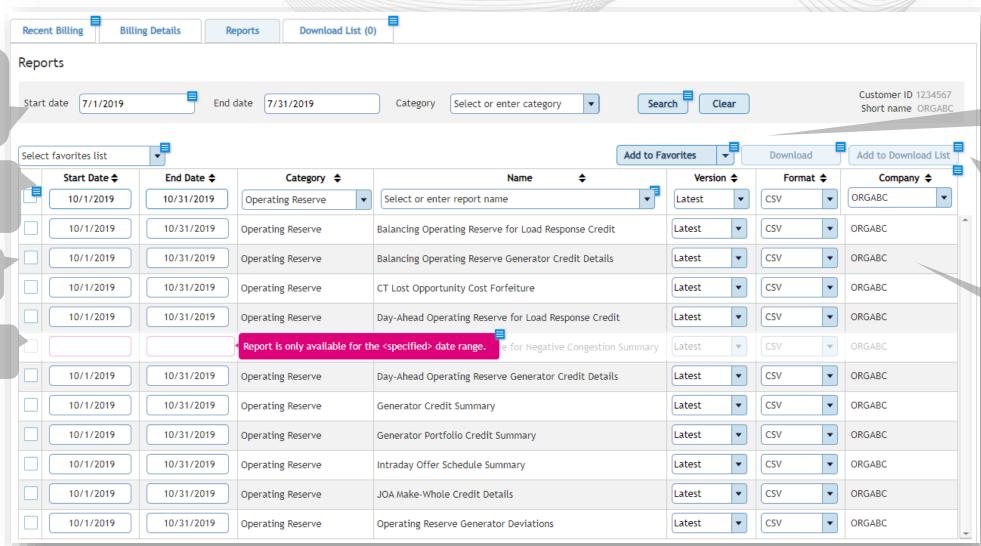
Reports

Specify date range to view reports

Column header filters

Select multiple

Date range errors



Create & organize
Favorites

Instant
Download
/Add to
Download
List

SUMA compatible



Download List

Recent Billing

Billing Details

Reports

Download List (14)

"Shopping Cart"

Download Lis

Download All

Download all selected reports

Category	Name	Dates	Version	Format	Company	Actions
Operating Reserve	Balancing Operating Reserve for Load Response Credit	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	î
Operating Reserve	Day-Ahead Operating Reserve for Negative Congestion Summary	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Operating Reserve	Operating Reserve for Load Response Charge Allocation (Pre FERC 745 (04.01.2012))	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	•
Energy	Emergency Energy Transactions	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Energy Transaction Details	DA Daily Energy Transactions	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Load Response Tier 1 Credits	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Load Response Tier 2 Credits	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Synchronized Reserve Credit Summary	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Synchronized Reserve Obligation Details	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Synchronized Reserve Tier 1 Charge Summary	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Synchronized Reserve Tier 1 Credits	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Synchronized Reserve Tier 2 Charge Summary	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	
Synchronized Reserve	Synchronized Reserve Tier 2 Credits	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	•
Synchronized Reserve	Synchronized Reserve Tier 2 Retroactive Penalty Charges	7/1/2019 - 7/31/2019	Latest	CSV	ORGABC	

Remove individual reports from download list

SUMA Compatible

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- Comments
- Suggestions
- Questions

Contact mss@pjm.com