

Additional Services

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Additional Services

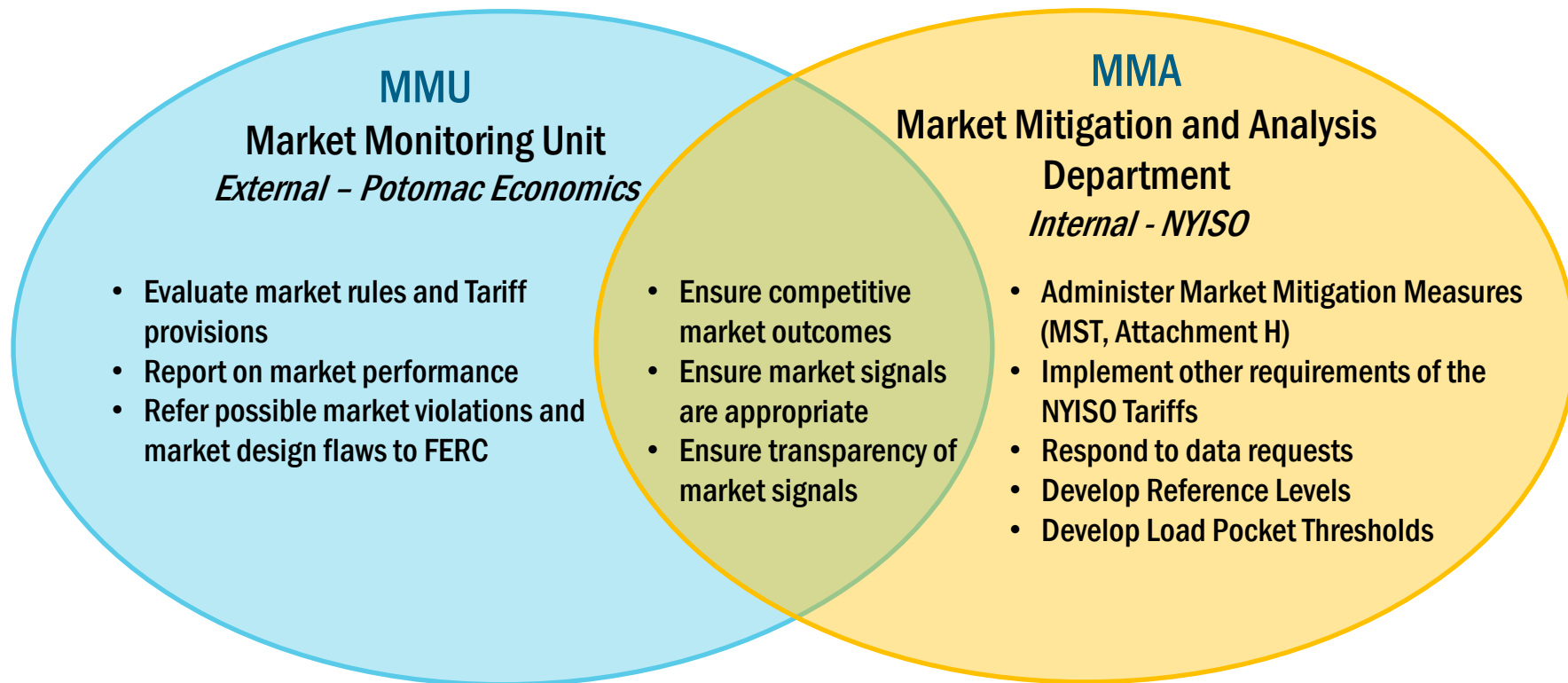
- **Market Monitoring, Mitigation and Analysis**
 - MMU
 - MMA
- **Financial Services**
 - Credit
 - Metering/Settlements/Invoicing
- **Customer Support**
 - Member Relations
 - Stakeholder Services

Objectives

- **Upon completion of this session, participants will be able to:**
 - Identify the responsibilities of the Market Monitoring Unit (MMU) and the Market Mitigation and Analysis Department (MMA)
 - Describe the purpose of the NYISO Credit Policy
 - Describe the role of the Stakeholder Services and Member Relations Teams

Market Monitoring, Mitigation and Analysis

Monitoring the Marketplace



Monitoring the Marketplace

- **Market Monitoring Plan**
 - Attachment O of the Market Services Tariff (MST)
- **Market Mitigation Measures**
 - Attachment H of the MST

Market Mitigation Measures

- **These measures are designed to:**
 - Monitor market outcomes and market participant conduct
 - For the exercise of market power that departs significantly from outcomes expected under competitive market conditions
 - Authorize the mitigation of specific conduct that has market impact
 - Identify and respond to inappropriate conduct that materially changes market prices, market outcomes or increases guarantee payments

MST, Attachment H

- “Intended to provide the means for the ISO to mitigate the market effects of any conduct that would substantially distort competitive outcomes in the ISO Administered Markets, while avoiding unnecessary interference with competitive price signals.”

Which of the following is NOT true of the Market Monitoring Unit (MMU)?

a) Ensures competitive market outcomes

b) Is an internal group to the NYISO

c) Reports on Market Performance

d) Refers possible Market violations/market design flaws to FERC

Monitored Market Areas and Activities

Energy Market & Ancillary Services	Energy Market Transactions	Virtual Trading	Transmission Congestion Contracts	Installed Capacity Market
<ul style="list-style-type: none"> • Energy Market Bidding • Bid Production Cost Guarantee Payments • Uneconomic Production • Persistent LSE Under Bidding • Physical Generator Facility Audits • Generator Availability Data System (GADS) Reporting 	<ul style="list-style-type: none"> • Multi-Hour Transactions • Single-Hour Transactions • 15-Minute Transactions 	<ul style="list-style-type: none"> • Virtual Supply Bidding • Virtual Load Bidding 	<ul style="list-style-type: none"> • TCC Auction Paths • TCC Auction Outcomes 	<ul style="list-style-type: none"> • ICAP Auction Outcomes • ICAP Providers DAM Bid Compliance

Monitoring Conduct and Impact

- NYISO monitors behavior of a market participant (Conduct) and results of said behavior (Impact)
 - Conduct – identify potential market power
 - Impact – identify price and cost guarantee payments
- NYISO applies mitigation when *both Conduct and Impact tests are violated*

Conduct and Impact Tests

Conduct - *Behavior indicating potential market power*

- Physical Withholding
 - Failing to offer services that a generator is capable of providing (i.e. Incremental Energy, Ancillary Services, Capacity, etc.)
- Economic Withholding
 - Submitting bids that are unjustifiably high so that the generator will not be dispatched or scheduled, or the bids will set a high market clearing price
- Uneconomic Production
 - Increasing the output of an Electric Facility to levels that would otherwise be uneconomic in order to cause, and obtain benefits from, a transmission constraint

Impact - *Results of behavior*

- Market Clearing Prices
- Cost Guarantee Payments
- Virtual Bidding
 - Persistent deviation of RT and DAM LBMPs
- Load Bidding
 - Average % of DAM scheduled load
 - Persistent deviation of RT and DAM LBMPs
- ICAP Market
 - Supply-Side Mitigation
 - Physical & Economic Withholding
 - Buyer-Side Mitigation
 - Minimum Offer Floor

NYISO applies mitigation when both Conduct AND Impact Tests are violated

Monitoring Conduct and Impact

- NYISO establishes thresholds for each product within a category
 - A [Reference Level](#) is a "proxy" that is intended to reflect the offer(s) that a Market Participant would submit for a generator if it was in a competitive market and could not exercise Market Power
 - The reference level for a Generator's Energy Bid is intended to reflect the Generator's marginal costs
 - The methods used to develop Reference Levels are set forth in Attachment H to the NYISO Market Administration and Control Area Services Tariff
 - Attachment H requires that Generators maintain accurate reference levels at all times
 - Constrained area vs. Rest-of-State (ROS)
 - A [Load Pocket Threshold](#) is a value associated with a particular constrained location that is used for the conduct and impact tests for mitigation

Reference Levels

- Physical parameters, including time, and dollar based references are established for each Generator
 - Updated for fuel prices when appropriate
- Reference Level Consultation Request Process
- Fuel Cost Update Functionality
- Relationship between reference levels and mitigation
 - A comparison of Reference Levels to Generator Bids are used to perform conduct and impact tests

Determination of Reference Levels

- Attachment H hierarchy for determining the most appropriate reference level:
 - Bid-based
 - LBMP-based
 - Cost-based or NYISO determined
 - Marginal operating costs submitted for a unit, reviewed by MMA and approved by NYISO
 - Can include review of bids for similarly-situated units, unit operating cost data, and best available information to NYISO

Reference Level Software (RLS)

- **Marketplace User Interface:**
 - Access to current and historical reference levels
 - Mechanism to submit and check status of cost-based data submissions and reference level adjustment requests (either normal or urgent)
 - Allows for dynamic web-based form submission and upload/download options
- **RLS generates DAM and RT market reference levels by unit on a daily and hourly basis**
 - Incorporates updated fuel and emission cost data

Applying Mitigation Measures

- **MMU/MMA may act if reporting indicates non-competitive outcomes (price divergence)**
 - Gather data/determine cause
 - Rule Changes
 - May be necessary to contact FERC enforcement
- **Not all investigations/conversations lead to mitigation or action**

Applying Mitigation Measures

- Mitigation Measures for behavior violating defined Conduct and Impact Thresholds may include:
 - Operational Directives/Actions
 - NYISO adjustment of bid dollar
 - NYISO adjustment of physical parameters
 - Sanction/Penalty
 - Financial
 - Suspension or Revocation of Bidding Privileges
 - Section 205 Filing
 - FERC-ordered measures

Market mitigation measures would be imposed for which of the following conditions?

a) When both conduct and impact tests are violated

b) Only when conduct test is violated

c) Only when an impact test is violated

d) None of the above

Not offering to sell electrical energy is an example of

**a) Economic
Withholding**

**b) Uneconomic
Production**

**c) Physical
Withholding**

When a bid dollar exceeds a threshold as defined by Attachment H, this is classified as

a) Physical Withholding

b) Underbidding by LSE

c) Uneconomic Production

d) Economic Withholding

RLS allows users to

a) Access historical reference levels

b) Submit reference level adjustment requests

c) Submit cost-based data to support reference level data

d) All of the above

Financial & Customer Support Services

Financial Services

Credit

Assess creditworthiness of MPs and manage and mitigate credit exposure

Metering/Settlements/Invoicing

Perform all settlement activities and issue customer bills detailing all charges and credits that apply

Customer Support Services

Stakeholder Services

Act as single point
of contact for
NYISO-related
information

Serve as customer
advocate

Provide quick,
efficient issue
resolution

NYISO Member Relations

Registration

Committee
Support

NYISO Liaison

Additional Services Summary


- Responsibilities of the Market Monitoring Unit (MMU) and the Market Mitigation and Analysis Department (MMA)
- Purpose of the NYISO credit department
- Role of the Stakeholder Services and Member Relations Teams




Market Monitoring, Mitigation and Analysis







NYISO Website Information

Market Monitoring – Main Page





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MARKET MONITORING

Useful Links

[!\[\]\(cdd7eefd12ae85850562b92817ebd03b_img.jpg\) Tariffs, FERC Filings & Orders](#)[!\[\]\(a6eb09bd135f854879d88f85328f186c_img.jpg\) Potomac Economics](#)[!\[\]\(01a74bf4005bbb1ab8e61a0d096906b5_img.jpg\) State of the Market Report](#)[!\[\]\(48908d4cc48d1fc21f54d40147bcd290_img.jpg\) Monthly Net Benefit Offer Floor](#)[!\[\]\(917bf75dbb5b2a683a7247bfea889878_img.jpg\) Expectations of Generator Operation During a Gas Restriction or Interruption User Guide](#)

Support

Budget & Finance 

Customer Registration

Market Monitoring

Member Community

ICAP Reference System Login

ICAP Reference System User's Guide

Reference Level System Login

Reference Level System User's Guide


The NYISO Market Monitoring Plan grants the NYISO Market Monitoring Unit authority to investigate market events, conduct, and/or performance. NYISO market participants may, at their discretion, request the NYISO investigate a specifically identified market issue.


Request an Investigation

View Tech Bulletin 104

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MARKET MONITORING

Useful Links

[Tariffs, FERC Filings & Orders](#)

Market Monitoring

Name	Published	Type
▼ Consultation Request Form		
▼ Fuel Entry Thresholds		
▼ ICAP Market Mitigation		
▼ Investigations		
▼ Load Pocket Thresholds		
▼ Market Mitigation Announcements		
▼ Reference Price Data Submittal		

Support

Budget & Finance ▾

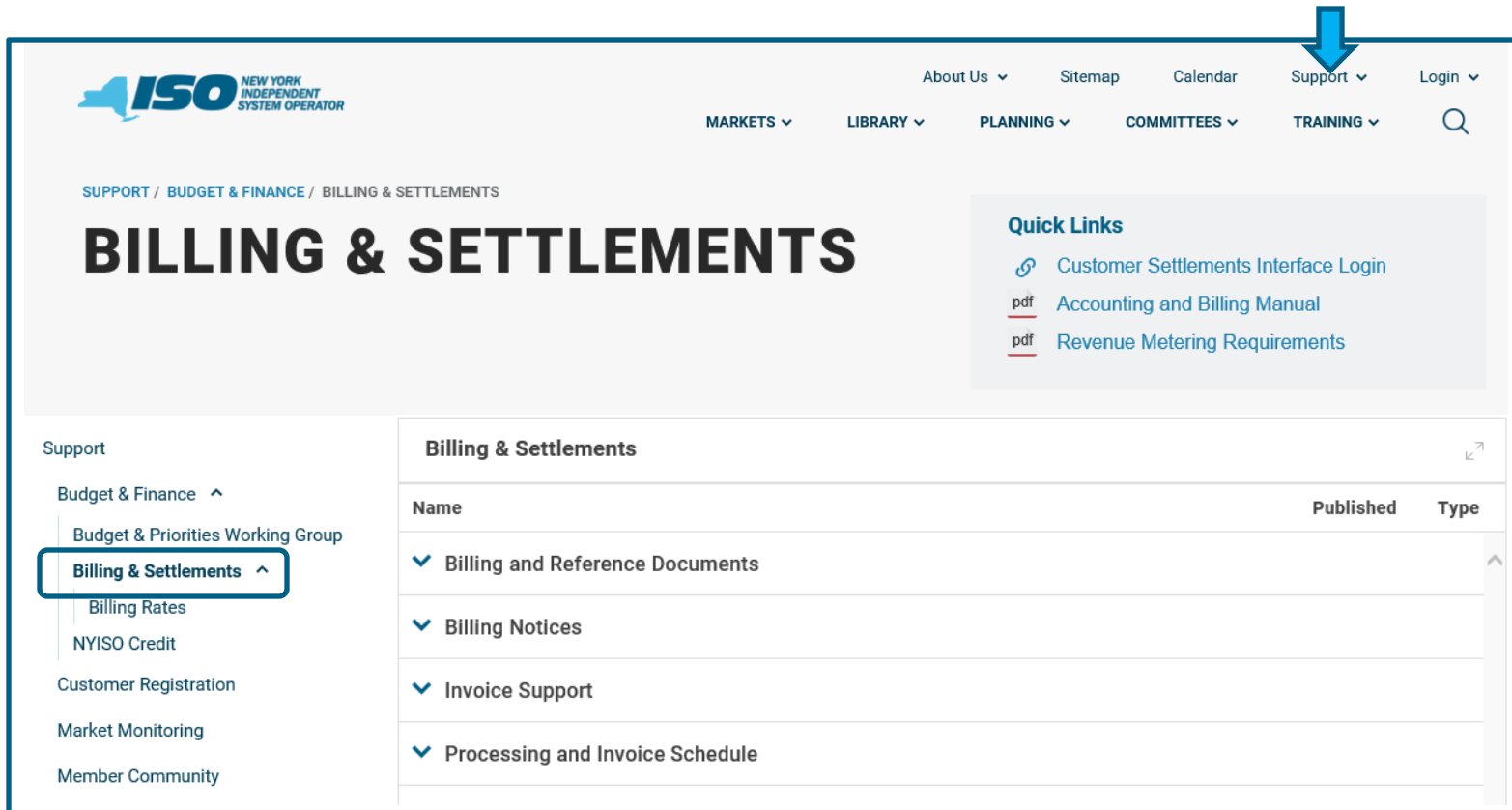
Customer Registration

Market Monitoring

Member Community

Market Settlements NYISO Website Information

Billings and Settlements – Main Page



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BILLING & SETTLEMENTS

Quick Links

- [Customer Settlements Interface Login](#)
- [pdf Accounting and Billing Manual](#)
- [pdf Revenue Metering Requirements](#)

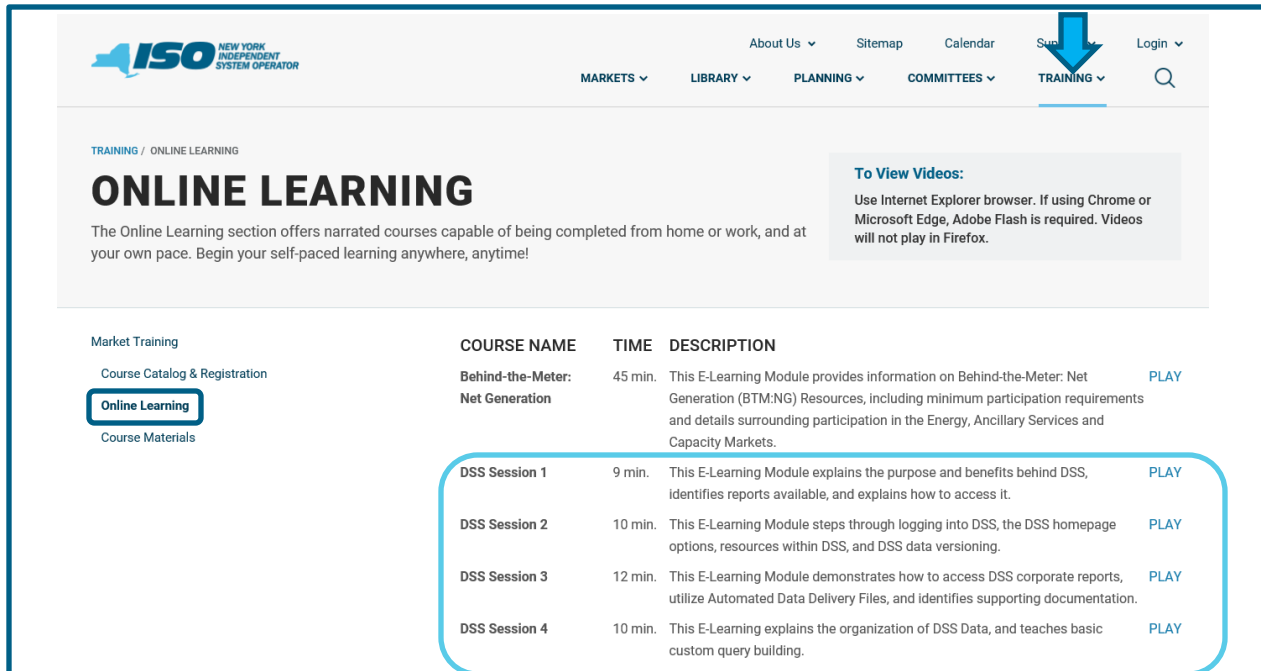
Support

- Budget & Finance ^
- Budget & Priorities Working Group
- Billing & Settlements ^**
- Billing Rates
- NYISO Credit
- Customer Registration
- Market Monitoring
- Member Community

Billing & Settlements		
Name	Published	Type
✓ Billing and Reference Documents		
✓ Billing Notices		
✓ Invoice Support		
✓ Processing and Invoice Schedule		

Settlement & Market Reports

- Decision Support System (DSS)
 - DSS Introductory Online Courses



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ONLINE LEARNING

The Online Learning section offers narrated courses capable of being completed from home or work, and at your own pace. Begin your self-paced learning anywhere, anytime!

To View Videos:
Use Internet Explorer browser. If using Chrome or Microsoft Edge, Adobe Flash is required. Videos will not play in Firefox.

Market Training

- Course Catalog & Registration
- Online Learning**
- Course Materials

COURSE NAME	TIME	DESCRIPTION	
Behind-the-Meter: Net Generation	45 min.	This E-Learning Module provides information on Behind-the-Meter: Net Generation (BTM:NG) Resources, including minimum participation requirements and details surrounding participation in the Energy, Ancillary Services and Capacity Markets.	PLAY
DSS Session 1	9 min.	This E-Learning Module explains the purpose and benefits behind DSS, identifies reports available, and explains how to access it.	PLAY
DSS Session 2	10 min.	This E-Learning Module steps through logging into DSS, the DSS homepage options, resources within DSS, and DSS data versioning.	PLAY
DSS Session 3	12 min.	This E-Learning Module demonstrates how to access DSS corporate reports, utilize Automated Data Delivery Files, and identifies supporting documentation.	PLAY
DSS Session 4	10 min.	This E-Learning explains the organization of DSS Data, and teaches basic custom query building.	PLAY

- DSS Intermediate Workshop

Billings and Settlements – Mapping Documents



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[Customer Settlements Interface Login](#)

Support

Budget & Finance ^

Budget & Priorities Working Group

Billing & Settlements ^

Billing Rates

NYISO Credit

Customer Registration

Market Monitoring

Member Community

Billing & Settlements

Name

▼ Billing and Reference Documents

▼ Billing Notices

▼ Invoice Support

▼ Processing and Invoice Schedule

Billing & Settlements

Name ↑

Published

Type

^ Billing and Reference Documents

Daily Customer Statement Template - active November 2018

2018/11/05 xls

Daily Customer Statement Template - active November 2018

2018/10/24 xls

DSS Mapping Guide_V1_Effective June 2017

2017/10/02 pdf

DSS Mapping Guide_V2_Effective November 2018

2018/11/02 pdf

Hourly Customer Statement Template - active April 2017

2018/10/24 xls

Hourly Customer Statement Template - active April 2017.xls

2018/11/05 xls

Rate Schedule 1 Universe Object Name Updates for Custom Reporting-Updated 041717

2017/04/18 pdf

Settlement Report for April 2018 4 Month Settlement

2018/10/18 pdf

Settlement Report for August 2018 Initial Settlement

2018/10/18 pdf

Additional Resources

- **Market Services Tariff**
 - MST 23 Attachment H – Market Mitigation Measures
 - MST 30 Attachment O – Market Monitoring Plan
- **Monthly, Quarterly and Annual Statistics**
 - Monthly Reports
 - Quarterly Reports
 - State of the Market Annual Reports

Additional Resources

- **Reference Level Manual**
- **Reference Level Software User's Guide**
- **ICAP Reference System User's Guide**
- **Technical Bulletin 104 – Requesting a formal NYISO investigation**