

Disclaimer for Customer Training: ISO New England (ISO) provides training to enhance participant and stakeholder understanding. Not all issues and requirements are addressed by the training. Consult the effective [Transmission, Markets and Services Tariff](#) and the relevant [Market Manuals](#), [Operating Procedures](#) and [Planning Procedures](#) for detailed information. In case of a discrepancy between training provided by ISO and the Tariff or Procedures, the meaning of the Tariff and Procedures shall govern.

June 6, 2019
WebEx Broadcast

Settlements Forum

2019 Q2



Rachel Likover, Jin Thian
Market Analysis & Settlements



forum

Topics



Upcoming Market/Settlement Changes

- Financial Transmission Rights – Balance of Planning Period (FTR BoPP)
- Energy Storage Devices Enhancement
- Enhanced Energy Scheduling (EES) – New Platform



Informational Items

- Forward Capacity Market (FCM) implemented changes
- Frequently Asked Questions
- Meeting Dates

Upcoming Market/Settlement Changes

- *Financial Transmission Rights – Balance of Planning Period (FTR BoPP)*
- *Energy Storage Devices Enhancement*
- *Enhanced Energy Scheduling (EES) – New Platform*



Financial Transmission Rights – Balance of Planning Period (FTR BoPP)

October 1, 2019



Joint ISO-NE/NEPOOL Filing

- Monthly FTR auctions enhanced to include each month through end of year
 - For BoPP go-live, October FTR auction will also include auctions for November and December
 - e.g. January FTR auction will include Feb – Dec
 - e.g. February FTR auction will include Mar – Dec
- MIS report changes
 - New and revised reports
 - Descriptions will be available later this year
- Divisional Accounting reporting enabled
 - FTR assignment functionality in the future
 - FTRs initially in default subaccount for divisional accounting users

Joint ISO-NE/NEPOOL FERC Filing

[ER12-2195-000](#)

[ER18-2293-000](#)

Link to FERC filings in .pdf version.

See the FTR BoPP FA Project's:

- [Customer Readiness page](#)
- *Full webinar TBD*



Energy Storage Devices (ESD)

December 2019 *



Joint ISO-NE/NEPOOL Filing

- April 1, 2019 (Implemented)
 - Binary storage facilities, continuous storage facilities
 - Storage facilities as small as 1 MW can participate
- December 1, 2019 (Changes)
 - Enhancements to rules on participation as ESD
 - Electric storage facility charging load may be exempted from Open Access Transmission Tariff (OATT) Regional Network Service (RNS) cost allocation
 - New Regional Network Load Configuration Change Request form will be available later this year

Joint ISO-NE/NEPOOL FERC Filing

[ER19-84-000](#)

[ER19-470-000](#)

Link to FERC filings in .pdf version.

See the ESD Project's:

- [Customer Readiness page](#)
- ESD webinar [presentation or recording](#)

See Settlements Forum:

- Q4 2018 [presentation or recording](#)

* Pending FERC Approval



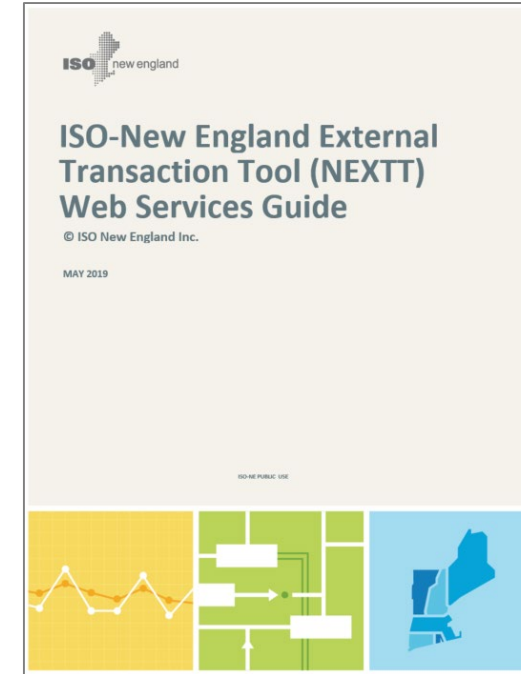
Enhanced Energy Scheduling (EES) Devices Upgrade

Target launch October 23, 2019



Platform Replacement

- New England External Transaction Tool (NEXTT) replaces EES
 - New features and process changes
- Divisional Accounting
 - External transactions
 - Assignment to subaccounts can be made in NEXTT
 - No MIS changes required
 - Subaccount reporting for external transactions already in place



See the Update Enhanced Energy Scheduling (EES) Technical Architecture Project's:

- [Customer Readiness page](#)
- [Link to technical web services presentation & recording](#) (webinar held June 5, 2019)
- *User interface webinar will be presented later this summer*





Questions

Informational Items

- *Forward Capacity Market Changes*
- *Frequently Asked Questions*
- *Settlements Forum Dates*
- *Questions*



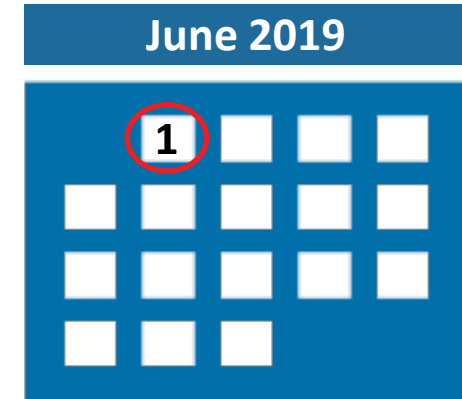
Forward Capacity Market (FCM)

Changes effective June 1, 2019



What's completed?

- Peak Energy Rent (PER)
 - PER adjustment no longer in effect as of June 1, 2019
 - Market Rule 1, Section 13.7.1.2



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- Capacity Supply Obligation (CSO) Cover Changes
a.k.a. Delayed Commercial Resource Treatment
 - New calculations will be introduced with the June 2019 settlement
 - See [Settlements Forum Q4 \(presentation or recording\)](#)

Joint ISO-NE/NEPOOL FERC Filing

[ER19-169-000](#)

Link to FERC filings in .pdf version.

See this project's description:

- [Customer Readiness page](#)



Ask ISO Topics

- *Frequently Asked Questions*



Common Ask ISO Topics



- 1 Settlements Calculations
- 2 Five-minute vs Hourly Rollup values
- 3 Meter Data Error Request for Billing Adjustments



1 I can't figure out how XYZ dollar was calculated. Can you explain how this is done?

- Settlements Calculation Summary reports on the ISO-NE website
 - Understanding the Bill
 - Billable Line-Item Descriptions: List of ISO-NE markets
<https://www.iso-ne.com/markets-operations/settlements/understand-bill/item-descriptions>
- These reports provide a visual breakdown of settlements calculations
- Kept current with market changes (e.g. energy storage devices, pay-for-performance, etc.)



1 I can't figure out how XYZ dollar was calculated. Can you explain how this is done?

[About Us](#) [Participate](#) [Committees and Groups](#) [System Planning](#) [Markets and Operations](#)

Markets and Operations > Settlements > Understanding the Bill

Billable Line-Item Descriptions

IN THIS SECTION

[Understanding the Bill](#)

[Billable Line-Item Descriptions](#)

[MIS Report Descriptions, Templates, and Samples](#)

[Sample Invoice and Remittance Advice](#)

Each line item in an ISO Invoice or ISO Remittance Advice is listed below. Click on a line item to see answers to common questions about that line item (such as who can expect to see credits or charges), and links to supporting documents, billing adjustments associated with the market, Market Information Server (MIS) reports, and FERC EQR reporting.

- [Annual Membership Fees](#)
- [Auction Revenue Right \(ARR\)](#)
- [Credit Insurance](#)
- [Credit Test Penalty](#)
- [Day-Ahead \(DA\) Energy](#)
- [Day-Ahead \(DA\) Net Commitment Period Compensation \(NCPC\)](#)
- [Real-Time \(RT\) Net Commitment-Period Compensation \(NCPC\)](#)
- [Regulation](#)
- [Reserve Market](#)

Note: This is only a partial list of billable line items. Not intended to serve as a complete list.

Most billable line items include a link to calculation summary

1 I can't figure out how XYZ dollar was calculated. Can you explain how this is done?

Regulation

What Is Regulation?

Regulation is an ancillary market service provided by resources equipped for automated generation control. These resources are placed under automatic control by ISO New England on the basis of their regulation supply offers, and they respond to signals sent every four seconds to match minute-to-minute changes in the New England load.

In What Document(s) Do I Find Details about the Regulation

Related Calculation Summary

[Regulation Calculation Summary](#) PDF



FERC EQR

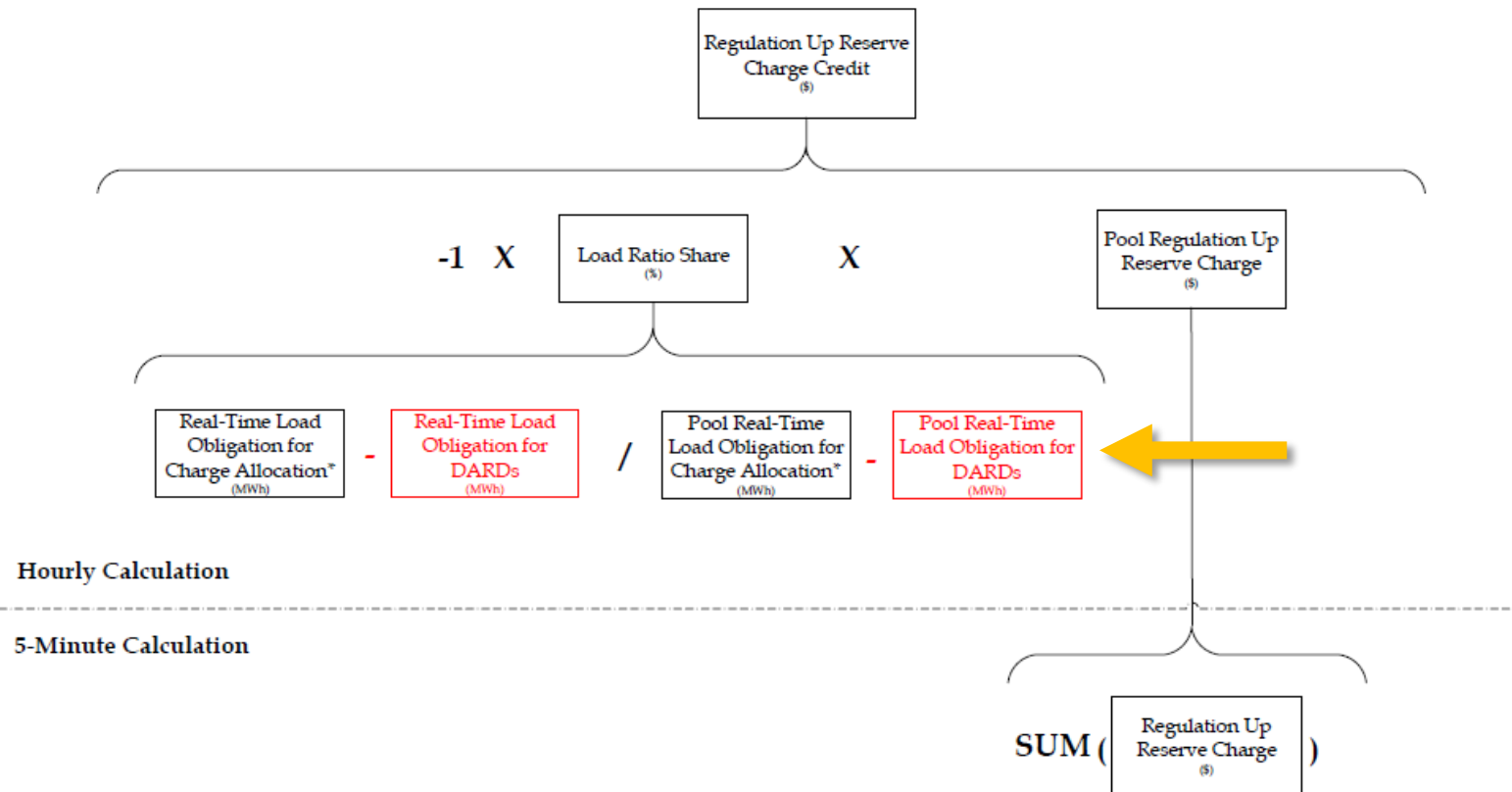
Regulation is reported on the [CD EQR](#) report, available monthly one month after the given

1 I can't figure out how XYZ dollar was calculated. Can you explain how this is done?

Example:

Note: The relevant ISO New England Markets, Services and Transmission Tariff and the relevant Market Manuals, Operating Procedures and Planning Procedures shall govern.

Hourly Regulation Up Reserve Charge Credit ISO New England Calculation Summary



* Excludes Coordinated External Transactions and Dispatchable Asset Related Demand (providing Regulation) consumption above the Minimum Consumption Limit.

regulation_calc_sum.vsd

Page 10 of 12
ISO-NE PUBLIC

Version Number: 10.0

Effective Date: 4/1/2019

2 Can you explain how our XYZ is being calculated on the attached SR_xxx report? I believe I used the relevant columns that are needed to calculate XYZ but I cannot exactly tie out.

Consider the following:

- Which report (Settlement Detail **SD** vs Settlement Summary **SR**) did you use and which data was it based on when you did the calculation?
- Since Sub-Hourly Real-Time Settlements implementation, many markets are calculated at a 5-minute interval → rollup to an hourly value
- As detailed in the report descriptions, you cannot re-perform the calculation at an hourly level
- See [Settlements Forum 2016 Q1 \(presentation or recording\)](#)

Real-Time Example – Without Day-Ahead Activity

5 Minute Reporting					
Interval	DA MW	RT MW	Deviations MW <small>RT - DA</small>	5 min. LMP \$/MWh	\$ for Interval <small>Deviations x 5 min. LMP / 12</small>
7:05	0	120	120	\$30	\$300
7:10	0	120	120	\$33	\$330
7:15	0	0	0	\$33	\$0
8:00	0	0	0	\$33	\$0
Sum / 12					Sum
Hourly Reporting					
Hour Ending	DA	RT	Deviations	LMP	\$ for Hour
08	0	20	20	\$32.75	\$630

20 MW
Deviation

x

\$32.75/MWh
LMP

=

\$655
\$ for hour

Note: Will not equal!!

Note: This is a conceptual representation of the settlement report.

3 How can I tell if there is a Meter Data Error Request for Billing Adjustment (MDE RBA) pending for a future bill?

Two ways to use the ISO website

Search feature:

- E.g. key words “meter data error”

Showing 1-38 of 38 results

Results below are limited to the last seven years.
[Search the archive for older results.](#)

meter data error

Search tips

RESULTS **SORTED BY RELEVANCE**

TITLE AND DESCRIPTION	DATE	TYPE	SIZE
Meter Data Errors RBA Submittal Form	06/28/2016	DOC	50KB
Meter Data Error RBA Deadlines The deadlines associated with each Meter Data Error RBA currently in process will be posted on the ISO-NE website until the final billing for the month is complete.	05/16/2019	PDF	289KB

Navigation:

- Markets and Operations > Settlements > Billing Disputes > Meter Data Error RBA Deadlines (pdf)

System Planning Markets and Operations

Settlements
Understanding the Bill
Billing Disputes
Settlement and Metering Holidays
Quarterly Settlements Forum
Metering and Resettlement Deadlines
Tariff Dates

DOCUMENTS

	TITLE AND DESCRIPTION	DATE	TYPE	SIZE
<input type="checkbox"/>	2019-05-31 Billing Dispute Status Requested Billing Adjustments included: RBA 07/18/01MD, RBA 08/18/01MD, RBA 09/18/01MD	05/31/2019	XLSX	22KB
<input type="checkbox"/>	Meter Data Error RBA Deadlines The deadlines associated with each Meter Data Error RBA currently in process will be posted on the ISO-NE website until the final billing for the month is complete.	05/16/2019	PDF	289KB

3

How can I tell if there is a Meter Data Error Request for Billing Adjustment (MDE RBA) pending for a future bill?

ISO NEW ENGLAND RESETTLEMENT DEADLINES FOR MDE RBAs IN PROGRESS

The following dates are projections for final settlement.

Deadline Description	Market Month		
	July 2018	August 2018	September 2018
Monthly Billing Date	8/13/2018	9/17/2018	10/15/2018
Data Reconciliation Process Bill Date	12/17/2018	1/14/2019	2/11/2019
Meter Data Error RBA Submission Limit	1/16/2019	2/13/2019	3/13/2019
Directly Metered Assets – Corrected Meter Data - Preliminary	2/25/2019	3/25/2019	4/22/2019
Directly Metered Assets – Corrected Meter Data – Final	3/2/2019	3/30/2019	4/27/2019
Profiled Load Assets & Peak Contribution – Corrected Meter Data - Preliminary	3/17/2019	4/14/2019	5/12/2019
Profiled Load Assets & Peak Contribution – Corrected Meter Data – Final	4/12/2019	5/10/2019	6/7/2019
Corrected Internal Bilateral Transactions (IBT's)	4/16/2019	5/14/2019	6/11/2019
ISO Projected Final Billing Date	6/17/2019	7/15/2019	8/12/2019

ISO-NE Public

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Settlements Forum Dates 2019



Q1

Thursday, March 7 at 10:00 AM



Q2

Thursday, June 6 at 10:00 AM



Q3

Thursday, September 5 at 10:00 AM



Q4

Thursday, December 5 at 10:00 AM



Questions

Your feedback is important!

Please complete a short
evaluation after you close
out of the session.

*(In case you don't get the evaluation
automatically, we'll email a link!)*



Don't make us beg!