Demand Resources:
Energy Market Offers & Asset Management

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Acronyms

ADCR	active demand capacity resource	**OD**	operating day
CAMS	Customer Asset Management System	**PFP**	pay for performance
DAM	Day-Ahead Energy Market	**PRD**	price-responsive demand
DDE	demand-designated entity	**RAA**	resource adequacy assessment
DDP	desired dispatch point	**RDP**	retail delivery point
DRA	demand response asset	**RTDR**	real-time demand response
DRR	demand response resource	**RTEG**	real-time emergency generation
DRTP	demand response threshold price	**RTU**	remote terminal unit
DRWG	Demand resources working group	**TMSR**	10-minute synchronized reserves
EOM	end of month	**TMNSR**	10-minute non-synchronized reserves
MIC	maximum interruptible capacity	**TMOR**	30-minute operating reserves

Price-Responsive Demand Training

Date	Training Title
Oct 23, 2017	Demand Resources Working Group: Fully Integrated Price Responsive Demand Presentation
Nov 14, 2017	Price-Responsive Demand Overview
This presentation	Energy Market Offers & Asset Management
March 22, 2018	Demand Response Registration
March 27, 2018	Demand Response Auditing
March 29, 2018	Passive Demand Resource Registration and Auditing

Objectives

After viewing this webinar, you will be able to complete the following tasks in Customer Asset Management System (CAMS):

- Update operational status
- Update or check meter status
- Update planned or forced curtailment

**After viewing this webinar, you will be able to complete the following tasks in eMarket:**

- Set up a portfolio
- Enter a day-ahead offer
- Check the clearing status
- Update physical parameters in real-time
- Manage schedules

CAMS Tasks

Trista Ristvedt

Managing Operational Status

Demand Resources After Full Integration
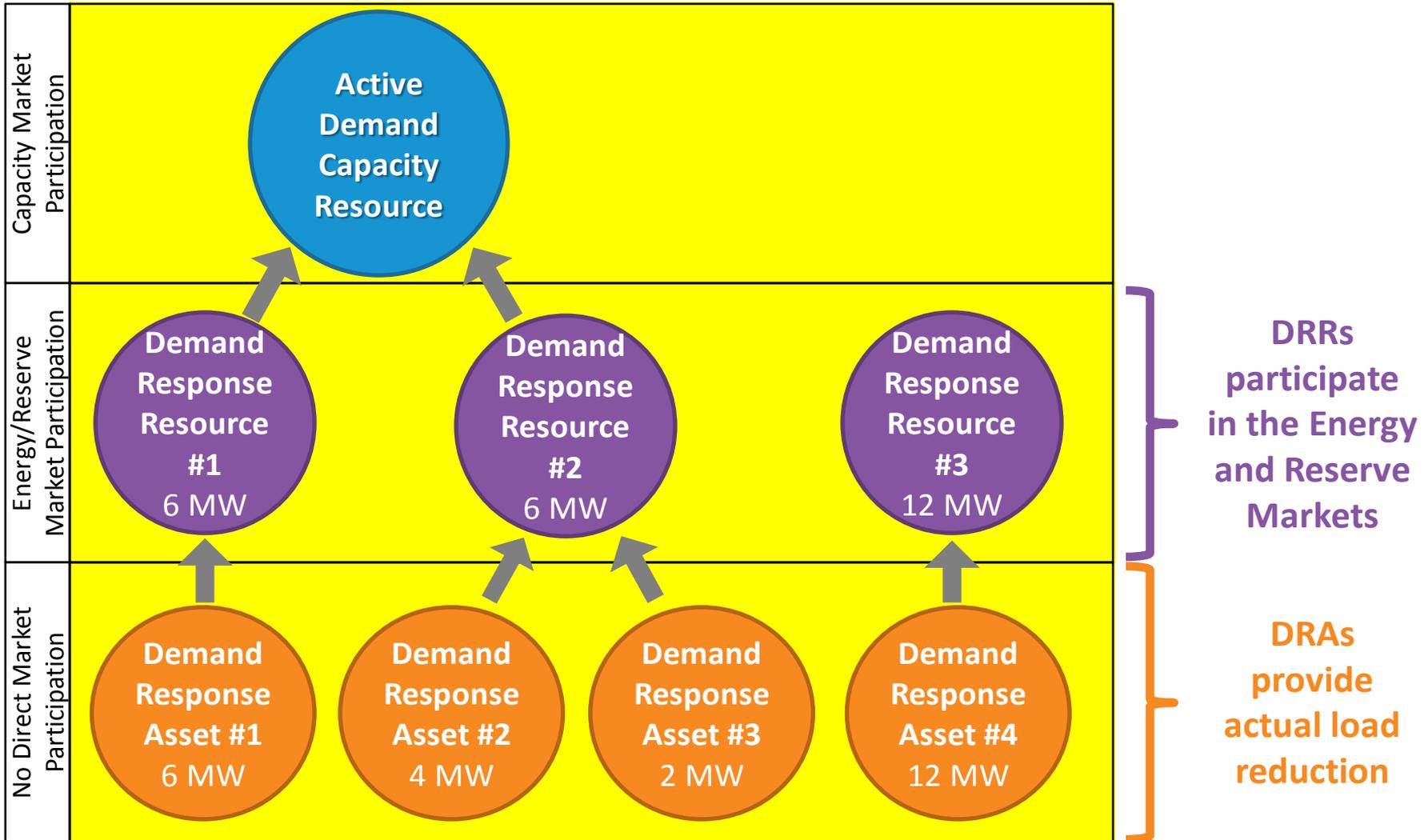
For additional background information see
Doug Smith's DRWG presentations from 9/27/2017 and 10/23/2017

Prerequisites for Energy Market Participation

DRR must meet the following:

- Be in **operational** status

- Have at least one qualifying **DRA** mapped to the **DRR**

- Have a minimum of 100 kW of maximum interruptible capacity (MIC)

DRR Operational Status - Requirements

- **DRR** is mapped to a DDE

- **DRR** is mapped to an RTU

- At least one modeled **DRA** in the same DRR aggregation zone is mapped to the **DRR**
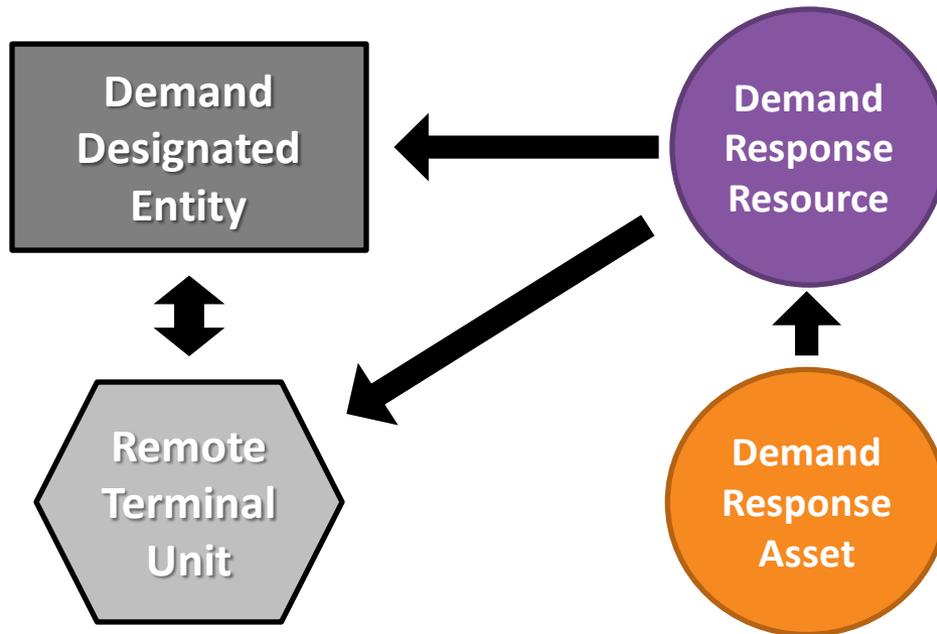
Mapping DRRs will be covered in the March 22, 2018 webinar.

Verifying Operational Status in CAMS

Navigate to the Affected DRR

Verifying Operational Status in CAMS

CAMS - DRR Operational Status

DRR

DR Resource Details

	As Of *	DRR ID	DRR Name	DRR Status	Date Effective	Date Expires	Lead Participant (ID)
	01/29/2018	00002	DRR 00002	OPERATIONAL	01/01/2018	02/01/2020	Participant XYZ (00000)

Map... Contacts | History | Change Log | Change Requests | Service Notes

RTU ID

00003

DDE (ID)

Demand Designated Entity Co. (00003)

MIC (MW)

9.400

Registered@Aggregation Zone

7618

Dispatch Zone (ID)

Western MA (7517)

DRR Aggregation Zone (ID)

DR.Western MA (7618)

Operating Reserve Capability

Audits

TMNSR | **TMOR** | **TMSR**

No | Yes | No

No audit data exists for this asset.

Update ADCR Mapping | Update DDE | Update RTU

Transfer DRR | Retire DRR

CAMS - DRR Operational Status

DRR

DR Resource Details

As Of *	DRR ID	DRR Name	DRR Status	Date Effective	Date Expires	Lead Participant (ID)
018	00002	DRR 00002	OPERATIONAL	01/01/2018	02/01/2020	Participant XYZ (00000)

Basic   **Mappings**   Contacts   History   Change Log   Change Requests   Service Notes

Asset Name (ID)	Lead Participant (ID)	Asset Status	Sub-Type	Dispatch Zone (ID)	Aggregation Zone (ID)	MIC (MW)
Energy Offer Asset (00001)	Participant XYZ (00000)	APPROVED	Single Facility	Western MA (7517)	DR.MA_Western (7618)	4.000
Energy Offer Asset 2 (00010)	Participant XYZ (00000)	APPROVED	Single Facility	Western MA (7517)	DR.MA_Western (7618)	0.075
Energy Offer Asset 3 (00020)	Participant XYZ (00000)	APPROVED	Single Facility	Western MA (7517)	DR.MA_Western (7618)	0.075
Energy Offer Asset 4 (00030)	Participant XYZ (00000)	APPROVED	Single Facility	Western MA (7517)	DR.MA_Western (7618)	4.005
Energy Offer Asset 5 (00040)	Participant XYZ (00000)	APPROVED	Single Facility	Western MA (7517)	DR.MA_Western (7618)	0.800
Energy Offer Asset 6 (00050)	Participant XYZ (00000)	APPROVED	Single Facility	Western MA (7517)	DR.MA_Western (7618)	0.400

Total: 9.400

Update ADCR Mapping   Update DDE   Update RTU   Transfer DRR   Retire DRR

DRA Operational Status Requirements

DRA

- It is in the Monthly Communications Model *(registration process)*
  - 'Approved' by ISO in CAMS
  - Telemetry is installed & operational
  - Mapped to an operational **DRR**
- It has a baseline built for the day-type *(only done once)*
- Meter issue flag is set to 'N' in CAMS
- Has no scheduled curtailments in CAMS for the operating day

If any of these criteria are not met the **DRA**'s status is **automatically non-operational** and it **will not** contribute to **DRR** reduction values

DRA Operational Status - CAMS

Updating Meter Status

Meter Issue Flag

Flag Selection	Meaning
Yes	*Yes*, there is a meter problem. My DRA is *not* operational.
No	*No*, there are no meter issues. My DRA is operational.

Meter Issues and Data Quality

ISO monitors real-time DRA telemetry data regularly

- If we are not receiving correct data in near real-time,
  - We will let you know
  - We will set the **Meter Issue** flag to 'Y'

Monitor your telemetry data regularly

- Be proactive
- Set the **Meter Issue** flag to 'Y' when you detect problems

Meter Issues - CAMS

Setting the Meter Issue Flag in CAMS

Edit Active Asset Detail

Asset Details (Update effective: 02/01/2018)

Requested Operational Date	Asset ID	Asset Name*		Asset Sub-Type	Asset Status
06/01/2010	00001	Energy Offer Asset		Single Facility	APPROVED

Telemetry Installed and Operational*	Registered@Pnode	One-minute Telemetry*	Meter Issue Flag*	M.I.C.*
Yes	4505	No		MW

No
Yes

Submit   Cancel

Meter Issue Flag Considerations

- Flagging is effective for the following day
- Flagging remains in place for a minimum of 1 day
- Status of the **DRA** will change to non-operational on the day the **Meter Issue** flag takes effect

Clearing the Meter Issue Flag

- Let us know that a meter is fixed by submitting an **Ask ISO** ticket
- Only ISO can clear a **Meter Issue** flag

Updating Curtailments

Curtailment

Definition

A period during which a **DRA** is unable to provide further load reductions because its curtailable load is offline

Curtailment Types

Scheduled Curtailments	Forced Curtailments
• Scheduled plant shutdown or scheduled maintenance	• Reduction in demand resulting from actions **outside the control** of the DRA or the participant
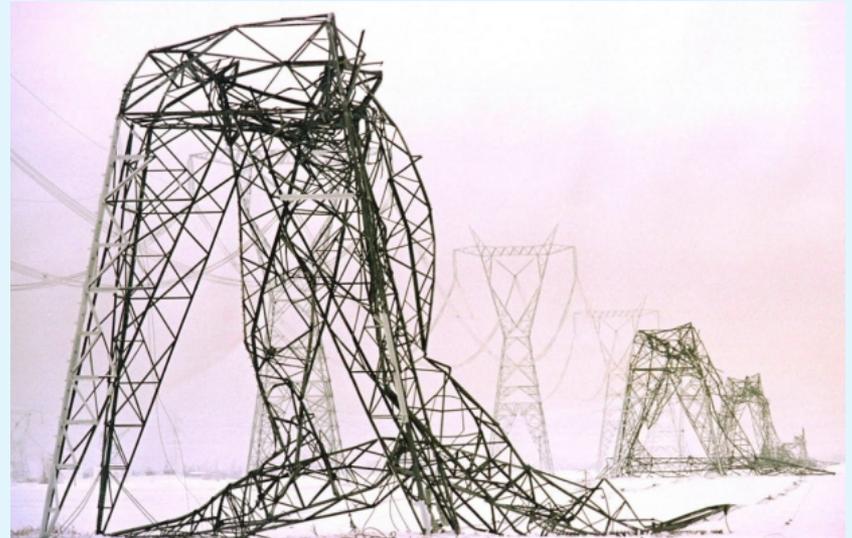
Entering Curtailments in CAMS

Enter a Scheduled Curtailment

Add Curtailment

Asset ID

00001

Start Date*

End Date*

Curtailment Type*

⌄

Reason

± Submit   ✕ Cancel

Enter a Scheduled Curtailment

Add Curtailment

Asset ID

00001

Start Date*

02/20/2018

End Date*

◀		February 2018				▶
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

Curtailment Type*

Reason

⬇ Submit   ✖ Cancel

Enter a Scheduled Curtailment

Add Curtailment

Asset ID

00001

Start Date*   **End Date***

02/20/2018   02/21/2018

Curtailment Type*

Forced
Scheduled

⬇ Submit   ✖ Cancel

Enter a Scheduled Curtailment

Approval

Scheduled Curtailment Approval & Termination

Requests are automatically approved if:

- They are submitted at least 7 calendar days before the start of the curtailment
- There are no more than 14 scheduled curtailments days per Capacity Commitment Period

Can be terminated up to the day before the curtailment begins

Enter a Forced Curtailment

Add Curtailment

Asset ID

00001

Start Date*   **End Date***

Curtailment Type*

⌄

Reason

⬇ Submit   ✖ Cancel

Enter a Forced Curtailment

Add Curtailment

Asset ID

00001

Start Date* | **End Date***

01/04/2018 | 01/05/2018

Curtailment Type*

Forced ⌄

Reason

Transmission outage: Lost transmission service due to snow storm on 1/4/2018--service returned on the following day.

⬇ Submit   ✖ Cancel

Enter a Forced Curtailment

Pending ISO Action

Forced Curtailment Approval

- Must be reviewed by ISO staff prior to approval
- Must include a thorough explanation

eMarket Tasks

Tim Peet

Focus

Daily eMarket tasks

- Related to demand response energy offers

New User Roles in eMarket
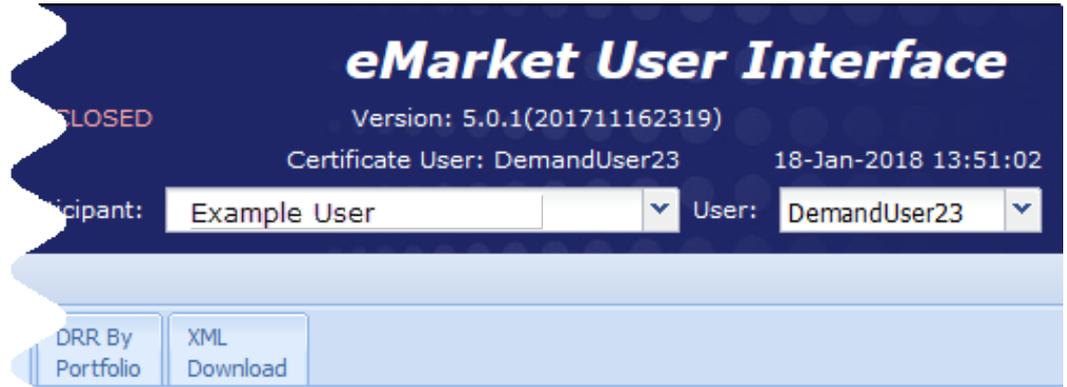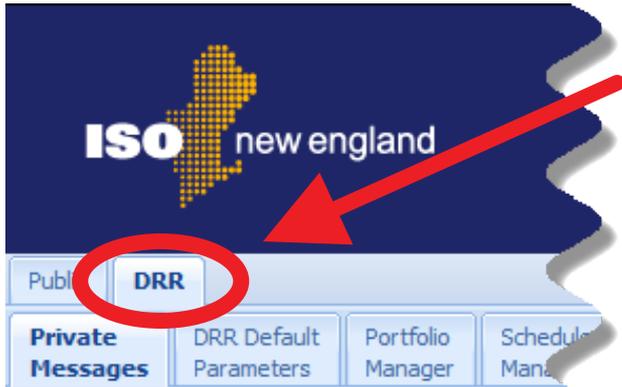
Sandbox

- DRR Read/Write
- DRR Read Only

Production

- DRR Read/Write
- DRR Read Only

What is Price-Responsive Demand?

Flexible load willing to be dispatched down economically

Price-Responsive Demand

Dispatch Changes

June 1, 2018

Dispatched for **reliability**   Dispatched **economically**

Active demand response becomes price-responsive demand

- DRR can participate in energy market directly via offers
  - May be committed in day-ahead
  - Dispatched in real-time
- Offers may have hourly granularity
- May participate in reserve markets

# Demand Response Threshold Price

Offers ≥ DRTP

- Are eligible for clearing

Offers < DRTP

- eMarket violation
- Rollover offer (ex: 5-days before EOM), DAM settlements will use threshold price

Updated and published each month

Navigating to the DRTP

Link to Demand Resources

Markets Data and Information > Demand Resources

ISO new england

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Markets and Operations > Markets Data and Information > Demand Resources

Demand Resources

IN THIS SECTION

- Markets Data and Information
- Day-Ahead and Real-Time Energy Markets
- Forward Capacity Market
- Financial Transmission Rights
- Forward Reserve Market and Real-Time Reserve Pricing
- Net Commitment-Period Compensation
- Regulation Market
- Voltage Support
- Blackstart Service

Access information and data related to demand resources. See Applications and Status Changes if you'd like to do business in New England's energy markets or need to make changes to your ISO account.

About Demand Resources

Demand resources, like power plants and other supply resources, are competitive assets that help meet New England's electricity needs. By reducing consumption, demand resources can help ensure enough electricity is available to maintain grid reliability. Read more.

Materials

Materials accessible below include participation guidance, tools, forms, and other related documents.

Data

See ISO Express for a large selection of real-time and historical ISO data and reports that can help

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Link to Demand Response Threshold Price Summary

Data

See ISO Express for a large selection of real-time and historical ISO data and reports that can help market participants make informed decisions, such as:

- Demand-Response Threshold Price Details
- Seasonal Peak Hour Data
- Demand-Response Threshold Price Summary
- Aggregated Demand-Response Threshold Price Report
- Cleared Price-Responsive Demand in Day-Ahead Market
- Price-Responsive Demand Offers

Tools and Related Resources

- The Demand Resources Working Group, a stakeholder forum that provides input to the Markets Committee and the ISO on demand resources, program designs, market rules, and implementation considerations.

- ISO training

- The Dispatch Zone Determination Tool to request the dispatch zone(s) for one or more locations

- The Notification of Service Territory Position on Demand Response Registration Form XLS

- CAMS User Guide for Demand Asset and Demand Resource Maintenance PDF

- Demand Resource Audit and Testing Tool (A&TT) User Guide PDF

Left sidebar

Blackstart Service

Demand Resources

Winter Program Payment Rate

RELATED LINKS

Dispatch Zone Determination Tool

Notification of Service Territory Position on Demand Response Registration (XLS)

Demand Resources Working Group

https://www.iso-ne.com/markets-operations/markets/demand-resources

Demand Response Threshold Price Summary

Pricing Reports

IN THIS SECTION

▼ Energy

Hourly Day-Ahead LMPs

Hourly Day-Ahead with Preliminary Real-Time LMPs

Preliminary Real-Time Five-Minute LMPs

Preliminary Real-Time Hourly LMPs

Final Real-Time Five-Minute LMPs

Final Real-Time Hourly LMPs

Selectable Day-Ahead and Preliminary Real-Time Hourly LMPs

Selectable Final Real-Time Five-Minute LMPs

Selectable Final Real-Time Hourly LMPs

Weekly LMP Indices

Monthly LMP Indices

Zonal Information

▼ Offers, Bids & Threshold Prices

Price Responsive Demand Offers

Day-Ahead Energy Offer Data

Real-Time Energy Offer Data

Demand-Response Threshold Price Summary

Download a summary report that includes the monthly demand-response threshold price, fuel index, and other related information.

▼ Download Selected Files   🔍 **Search Historical Data**

DEMAND-RESPONSE THRESHOLD PRICE SUMMARY

☐	DESCRIPTION	▼ TIMESTAMP	DOWNLOAD
☐	Current - February 01, 2018	01/11/2018 03:22 PM EST	CSV
☐	January 01, 2018	12/14/2017 10:05 AM EST	CSV
☐	December 01, 2017	11/15/2017 02:46 PM EST	CSV
☐	November 01, 2017	10/11/2017 03:24 PM EDT	CSV
☐	October 01, 2017	09/14/2017 12:31 PM EDT	CSV

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Download DRTP Summary CSV File

Pricing Reports

IN THIS SECTION

▼ **Energy**

Hourly Day-Ahead LMPs

Hourly Day-Ahead with Preliminary Real-Time LMPs

Preliminary Real-Time Five-Minute LMPs

Preliminary Real-Time Hourly LMPs

Final Real-Time Five-Minute LMPs

Final Real-Time Hourly LMPs

Selectable Day-Ahead and Preliminary Real-Time Hourly LMPs

Selectable Final Real-Time Five-Minute LMPs

Selectable Final Real-Time Hourly LMPs

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☐	October 01, 2017	09/14/2017 12:31 PM EDT	CSV

https://www.iso-ne.com/transform/csv/drtp?start=20180201&end=20180201

Choose Application to Open the CSV File
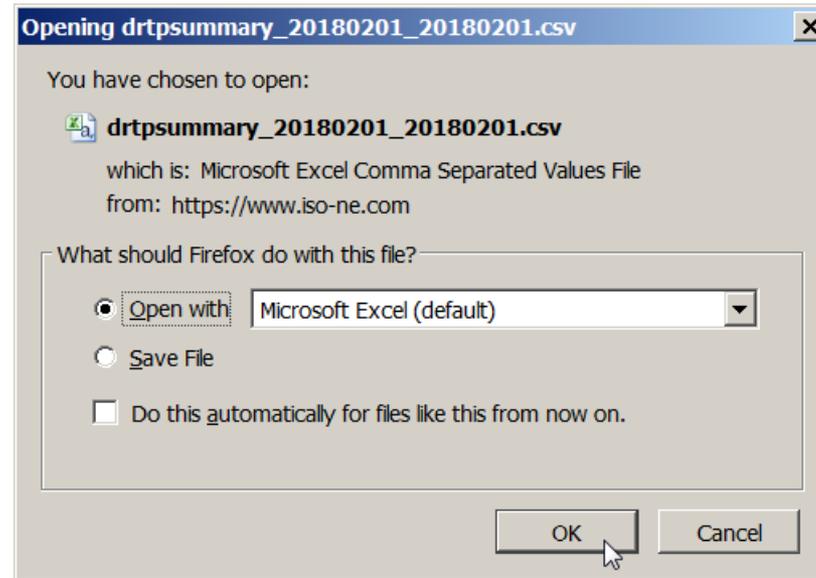
DRTP Summary Report

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	C	Demand Reduction Threshold Price Summary Report												
2	C	Filename: drtpsummary_20180201_20180201.csv												
3	C	Time period: 2018-02-01 to 2018-02-01												
4	C	Report generated 2018-01-23 08:59:28 EST												
5	H	Trading M	Reference	Fuel Index	Fuel Index	Relevant S	Relevant S C							
6	H	Date	Date	$/MMBTU	$/MMBTU	$/MWh	$/MWh							
7	D	2/1/2018	2/1/2017	7.66	9.69	53	136							
8	T	1 lines												

Demand Reduction Threshold Price
$/MWh

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Bids and Offers Timeline for the Operating Day (OD)

Market Activity	Hourly Markets Timeline
DAM bidding window opens / Bidding window for OD +1 and beyond	00:00 on OD-1
DAM bidding window closes	10:00 on OD-1
DAM results posted	Between 12:00 and 13:30 on OD-1
Re-offer period and bidding window for OD+1 and beyond opens	After DAM results published
Re-offer period closes	14:00 on OD-1
Bidding window opens for OD+1 and beyond	14:00 to midnight on OD-1
Intraday real-time re-offer period	From 18:30 on OD-1 to 22:30 on OD

DRR Offer Parameters

- Flexibility similar to generating resources

- Offer parameters
  - Available/Unavailable
  - Minimum Reduction
  - Maximum Reduction
  - Ramp Rate
  - Offered Claim 10
  - Offered Claim 30
  - Notification Time
  - Start-up Time
  - Price/Quantity Pairs
  - Interruption Cost
  - Minimum Reduction Time
  - Min. Time Between Reductions
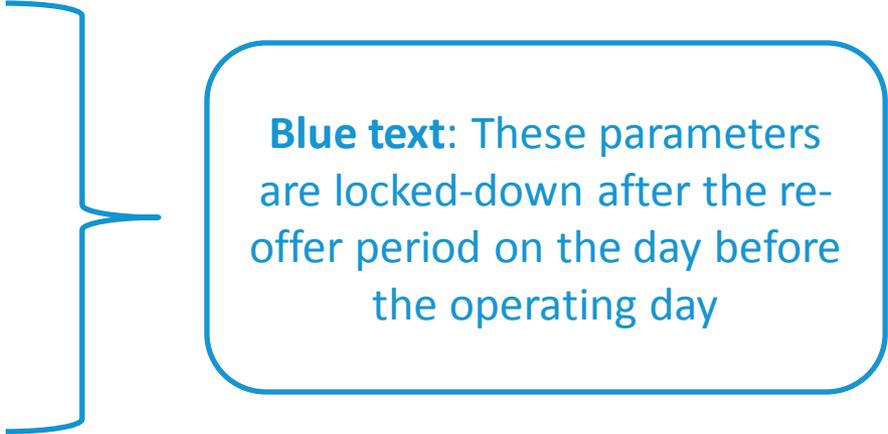
> **Blue text**: These parameters are locked-down after the re-offer period on the day before the operating day

Offline Reserves

DRRs

- Are considered fast-start capable
  - Must offer as fast-start DRR in order to get fast-start treatment

- Can offer as fast-start if:
  - [Notification time + start-up time] ≤ 30 minutes
  - Minimum time between reductions and minimum reduction time ≤ 1 hour
  - Offered Claim 30 audit value > 0 MW
  - Has a Claim 30 cap value > 0 based on past audits and dispatches

- If offering as fast-start
  - Day-ahead commitment is financially binding but is not a commitment order
    - Real-time dispatch algorithm will be the same whether it clears day-ahead or not

Links to Guides

eMarket User Guide

**eMarket
Data Exchange Specification**

Demonstration of eMarket Tasks

Getting More Information

SEARCH

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Financial Assurance and Credit

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Enrollment in the New England Transmission Planning Region

New or Modified Interconnections

Transmission Service Applications

Name Changes, Affiliate Updates, Termination, and Other Customer Changes

Generator, ARD, and ATRR Asset Registration

Load and Tie-Line Asset Registration

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Participants Agreement and NESCOE MOU

Transmission Operating

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Transmission, Markets, and Services Tariff

Market Rule 1

Open Access Transmission Tariff (OATT)

Manuals

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System Operating Procedures

Master and Local Control Center Procedures

Generator and Non-Generator VAR Capability

Planning Procedures

NERC and NPCC Compliance

System-to-System Operating Instructions

Regulatory Filings and Orders

ISO Filings to FERC

ISO Orders from FERC

ISO Filings and Orders with Other Federal Agencies

Registration information and support for business entities doing business with ISO New England

https://www.iso-ne.com/participate/support/customer-readiness-outlook

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ISO **20** years
new england

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Customer Readiness 12-Month Outlook

Last update: 11/03/2017

ISO New England undertakes many projects and initiatives in collaboration
continued development of the region's wholesale electricity markets. Listed
major projects that may affect your organization over the next 12 months. Projects are added as
they are scheduled; in some cases projects are scheduled and implemented in a shorter timeframe
and may be added to the list close to their target launch. This page is generally update
monthly basis, though more frequent updates may be made in response to a significa   in
the project plan.

- Click the names of near-term projects to see details on the project and actions req   ell as
  links to training materials and other resources.

- Click here to subscribe to the Customer Readiness mailing list to receive notificatio   his
  page or the near-term project pages are updated. Hit send when the subscription   s up.

- To follow the course of proposed projects and initiatives from introduction to impl   n, see
  the Wholesale Markets Project Plan page and Key Project pages.

Near-Term Projects

Scroll down to
PRD section
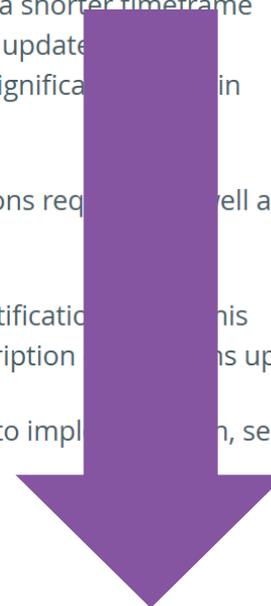
Longer-Term Projects

(7-12 Months)

PROJECT	TARGET LAUNCH	CUSTOMERS AFFECTED	SYSTEM AFFECTED	SCOPE OF CHANGE
Update Enhanced Energy Scheduling (EES) Technical Architecture Create a new user interface for customers to submit external transactions and assign subaccounts; replace the JAVA Applet architecture to improve system performance	Q1 2018	All **Enhanced Energy Scheduling (EES)** software users	Enhanced Energy Scheduling (EES)	The new customer interface will be named New England External Transaction Tool and will be referred to using the acronym "NEXTT." Retire the use of EES Java Applet architecture and replace the current EES user interface with a new customer submittal platform.
			WebServices	New file formats for data uploads and downloads will be available.
			CAMS Subaccounts	Subaccounts created in CAMS will be available for assignment in the NEXTT user interface. (See the Divisional Accounting project for more information on subaccounts).
			MIS	Participants will be able to utilize existing informational Market Information Server (MIS) reporting by subaccount. (See the Divisional Accounting project for more information on subaccounts).
Price Responsive Demand (PRD) Project Fully integrate demand response resources (DRRs) to participate in the energy and reserve markets and to be	Q2 2018	Market participants and demand-designated entities (DDEs) with **demand response (DR) assets**	Customer and Asset Management System (CAMS)	DR entities will be assigned new asset and resource IDs to be converted to the three-level PRD entity model:

Price Responsive Demand (PRD) Project	Q2 2018	Market participants and demand-designated entities (DDEs) with **demand response (DR) assets**	Customer and Asset Management System (CAMS)	DR entities will be assigned new asset and resource IDs to be converted to the three-level PRD entity model:
Fully integrate demand response resources (DRRs) to participate in the energy and reserve markets and to be eligible for Forward Capacity Market (FCM) shortage event penalties or credits, as well as peak energy rents				■ Demand response assets (DRAs) ■ Demand response resources (DRRs) ■ Active-demand capacity resources (ADCRs) The concept of DRR aggregation zone pnodes will be introduced. New user roles will be available for assignment in CAMS. The new DRR IDs and the converted DRA IDs will automatically be assigned to the default subaccount. Participants that choose to use subaccount reporting for these entities will assign subaccounts at go-live.
			eMarket	New displays specific to DRRs will be available in the user interface (UI). Using the eMarket UI, DR market participants will: ■ Create portfolios, day-ahead (DA) schedules and real-time (RT) schedules ■ Submit DA and RT transactions Be able to enter hourly

Remote terminal unit (RTU)	RTUs will be upgraded and tested prior to go-live. The desired dispatch point (DDP) for each DRR will be included in the data to convey the requested consumption reduction below the DRR's adjusted baseline.
DR Audit and Testing Tool (DRATT)	Beginning in early May 2018, DR audits will be put on hold but requests will continue to be accepted for audits commencing June 1, 2018, or later.
ISO New England SMD Applications	Real-time demand response (RTDR) and real-time emergency generation (RTEG) will be removed from the Meter Reader UI.
Demand Response Market User Interface (DRMUI)	The DRMUI will allow download of three baseline types (weekday, Saturday, Sunday/Holiday), baselines for prior days, interval performance data by asset, and interval performance data by resource.
Baseline calculations	Baseline calculations for Saturdays and Sunday/DR holidays will use the five most recent uninterrupted like-days during the past 42 days rather than non-holiday weekdays as implemented June 1, 2017.
Forward Capacity Tracking System (FCTS)	Existing DR field labels in the UI will be updated to new PRD terms which will also display in historical views with the old DR data model.

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NEPOOL Agreement
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ISO Filings and Orders with Other Federal Agencies
ISO Filings with States
PTO Filings and Orders with FERC
PTO AC Filings and Orders with FERC

Registration information and support for business entities doing business with ISO New England

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Mailing Lists

ISO New England offers several email lists to help market participants and other stakeholders keep up with ISO and industry developments. To subscribe, click on a mailing list name, and hit send when the subscription email opens up.

General ISO and Industry Information

ISO Newswire

A monthly list of the most recent articles from the ISO's news blog, *ISO Newswire*

ISO Training

Announcements of training courses offered by the ISO

Customer Readiness

Notification of updates to the Customer Readiness 12-Month Outlook webpage or the near-term project pages listed therein, which discuss major upcoming ISO projects that require action from affected market participants

Notices

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Customer Support Information

Ask ISO (preferred)

- Self-service interface for submitting inquiries

- Accessible through the SMD Applications Homepage

- Requires a valid digital certificate with the role of Ask ISO/External User (Contact your security administrator for assistance)

Other Methods of Contacting Customer Support		
Method	**Contact Information**	**Availability**
Email	custserv@iso-ne.com	Anytime
Phone*	(413) 540-4220	Monday through Friday 8:00 a.m. to 5:00 p.m. (EST)
Pager (emergency inquiries)	(877) 226-4814	Outside of regular business hours

* Recorded/monitored conversations