Weekly Market Summary

June 2-8, 2014

About this Report

This report contains seven sections. They are:

1) The ***Weekly Highlights*** section provides brief explanations of notable events that occurred during the week. The tables provided show market results for the current week, prior week, the same week a year ago, and the percentage change this week vs. the prior week and prior year. The highlights also include a detailed explanation of the day-ahead and real-time price separation for the current week, along with any real-time price corrections.

2) The ***Pricing*** section contains various graphs presenting information about Locational Marginal Prices (LMPs) and its components for the Hub, load zones, and external nodes. A table showing descriptive LMP statistics for these locations is also provided.

3) The ***Weekly Demand*** section contains a table describing total day-ahead and real-time load obligation (DALO & RTLO) for the current week, last week, the percentage change from last week, last year, and the percentage change from last year. In addition, there are graphs showing day-ahead demand bids and cleared volumes by type. Also included are tables for daily demand bid and virtual volumes and peak load by day with associated real-time pricing.

4) The ***Weekly Supply*** section contains tables and graphs of day-ahead generation obligation accumulated from generation, virtual supply, and imports. Information on real-time supply including, metered generation by fuel type, self scheduled MW, real-time reliability MW, marginal price settings, and external interface imports.

5) The ***Net Commitment Period Compensation (NCPC)*** section includes tables for day-ahead and real-time payments by day and second contingency payment by load zone.

6) The ***Reserves*** section contains tables for payment and charges of reserve markets by reserve zone and load zone. Real-Time Reserve Clearing Prices, Forward Reserve Daily Threshold Prices and, real-time reserve bias implementation are also provided.

7) The last section of the report, the ***Glossary and Links*** section, contains additional information concerning each section listed above, including links to relevant pages on the ISO New England web site.

Note: A supplemental Excel file 'WE YYYY MM DD Market Data 53 Weeks.XLSX', located here, contains the past 53 weeks of data of various concepts including market prices, payments, charges, and MW values.

Click this icon in the section header to navigate to the glossary section, where definitions are described in more detail, with links to the ISO New England web site.

1. Weekly Highlights: June 2-8, 2014

Notable Events

- A Minimum Generation Emergency was declared on Monday, June 2, from 12:00 a.m. to 3:15 a.m., resulting in three hours with $0/MWh LMPs system-wide during that time period.
- A Minimum Generation Emergency was declared on Saturday, June 7, from 6:00 a.m. to 7:30 a.m., resulting in one hour with $0/MWh LMPs system-wide during that time period.

Locational Marginal Pricing (LMPs) New England Hub; $/MWh; Average	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
Day-Ahead Energy Market; All Hours	$35.96	$36.81	-2.3%	$33.34	7.8%
Real-Time Energy Market; All Hours	$31.78	$34.22	-7.1%	$32.05	-0.9%

Weekly Demand Statistics (MWh)	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
Peak Load (MW - Preliminary)	17,397	16,187	7.5%	18,660	-6.8%
DA Load Obligation (All Zones)	-2,259,702	-2,112,597	7.0%	-2,241,846	0.8%
RT Load Obligation (All Zones)	-2,305,403	-2,141,168	7.7%	-2,329,710	-1.0%
DA Cleared Exports (All Interfaces)	-87,596	-54,687	60.2%	-102,837	-14.8%
RT Scheduled Exports (All Interfaces)	-105,368	-64,936	62.3%	-125,087	-15.8%

Weekly Supply Statistics	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
Input Fuel Price (Natural Gas, $/MMBtu)	$3.85	$3.54	8.8%	$4.98	-22.7%
Mass Average Input Fuel Price (Natural Gas, $/MMBtu)	$3.95	$3.65	8.3%	$4.42	-10.6%
Metered Generation (MWh)	2,056,672	1,886,676	9.0%	2,087,212	-1.5%
Generation Obligation (MWh)	2,439,354	2,236,091	9.1%	2,491,696	-2.1%
Self-Scheduled Generation (MWh)	1,692,984	1,505,127	12.5%	1,617,260	4.7%
DA Cleared Imports (MWh - All Interfaces)	365,525	315,091	16.0%	392,956	-7.0%
RT Scheduled Imports (MWh - All Interfaces)	382,682	349,415	9.5%	404,484	-5.4%

Weekly Reliability Costs (NCPC)	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
Total NCPC ($)	$564,857	$337,756	67.2%	$1,205,307	-53.1%

Reserve Market Payments	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
Forward Reserve Market Payments ($)	$4,600,320	$2,004,127	129.5%	$1,077,680	Large
Real-Time Reserve Market Payments ($)	$82,963	$126,623	-34.5%	$18,333	Large

Underlying natural gas data furnished by:

ICE Global markets in clear view

Day-Ahead Price Separation

- On Tuesday and Thursday, June 3 and 5, price separation in the Vermont (VT) and Southeastern Massachusetts (SEMA) Load Zones was caused by a binding constraint on the New England West-East Interface due to the planned outages of the 3348 (Lake Road-Killingly) line and the 347 (Killingly-Sherman Road) line. The 3348 line is expected to be restored on June 6, and the 347 line is expected to be restored on June 14.
- On Saturday, June 7, elevated pricing in the Connecticut (CT) Load Zone was caused by a binding constraint on the Western Connecticut Import Interface due to the planned outage of the 371 (Millstone-Montville) line. The 371 line was restored on June 7.

Real-Time Price Separation

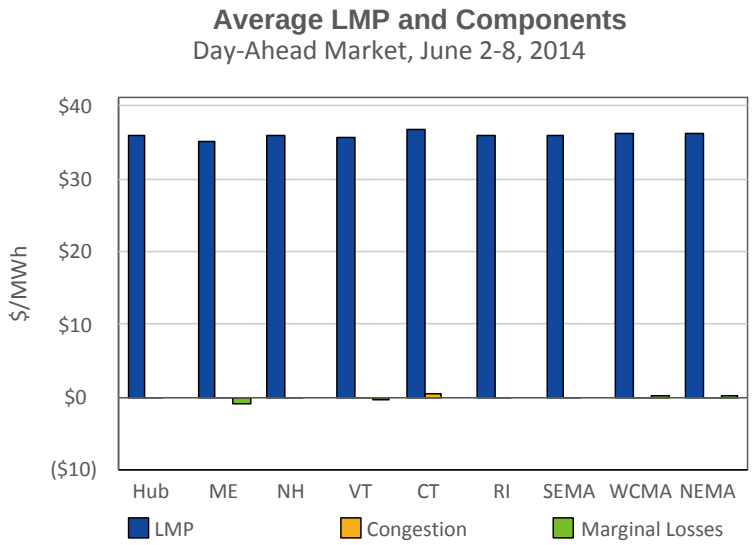
- None

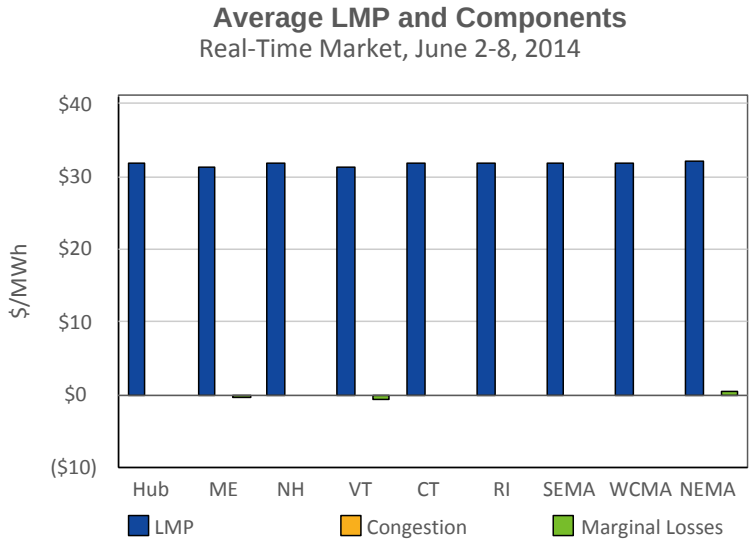
Real-Time Price Corrections

- None

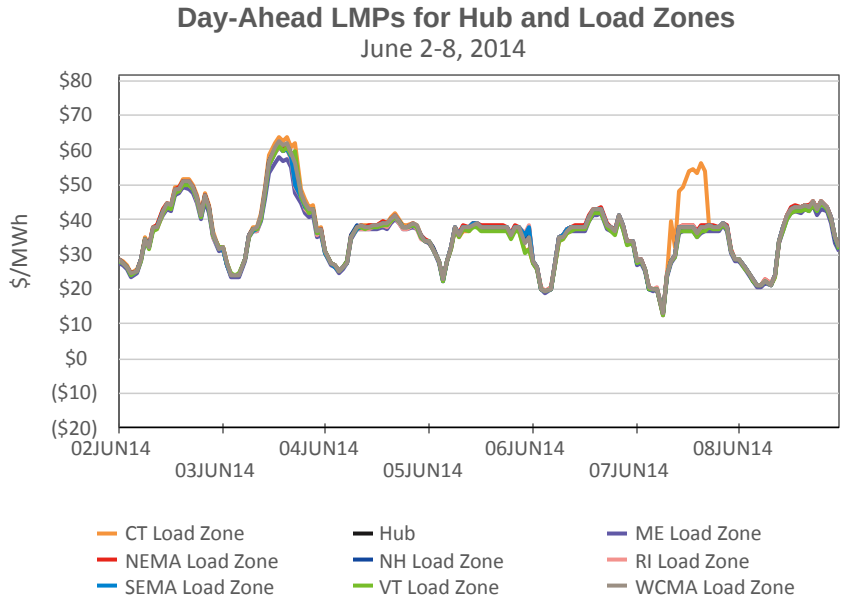
2. Pricing

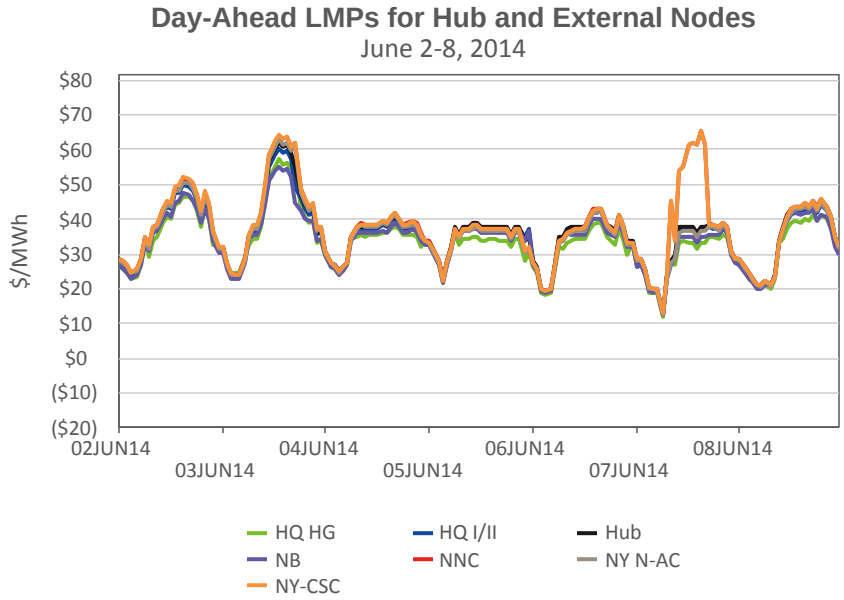
The two graphs below show the weekly average LMPs, congestion, and marginal loss components at the Hub and load zones for both the Day-Ahead and Real-Time Energy Markets.



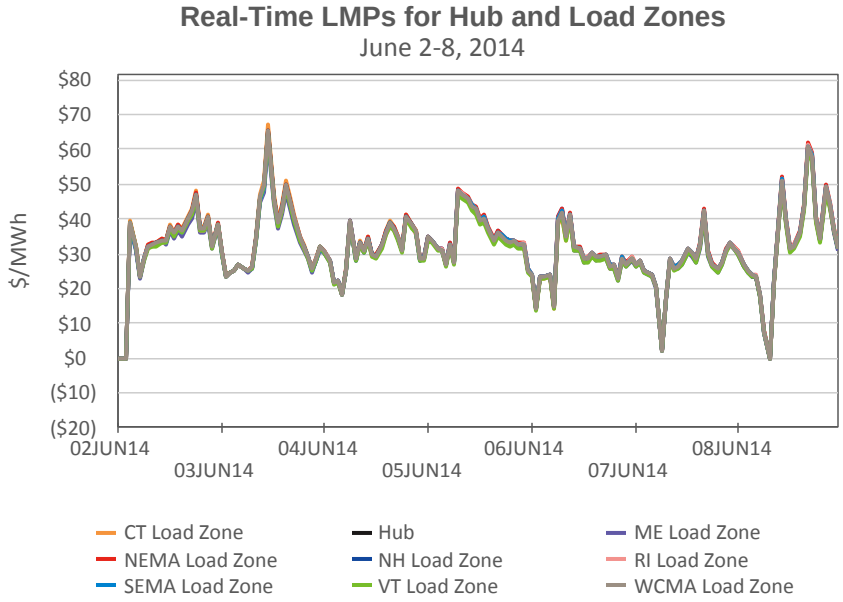


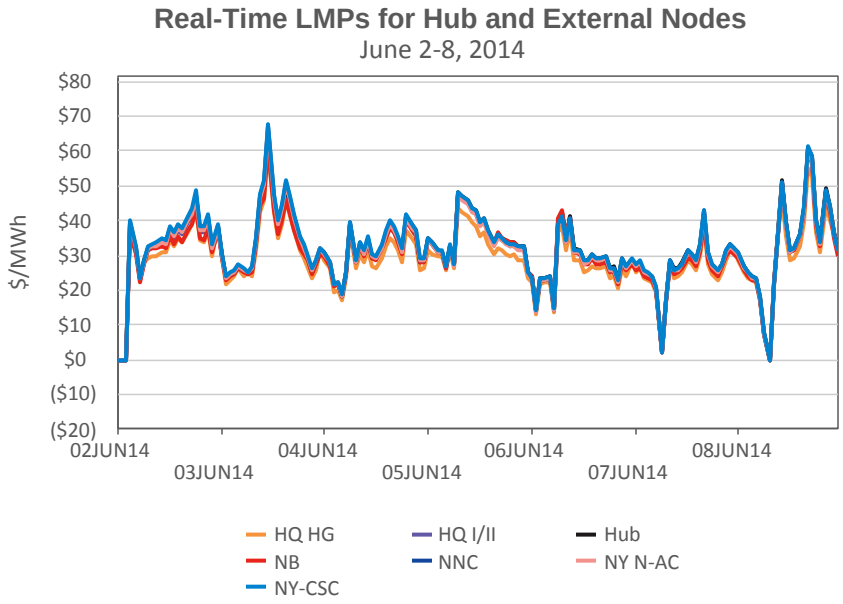
The following two graphs show hourly day-ahead LMPs for the Hub, the eight load zones, and the five external nodes. In cases where there is little or no price separation, the lines for multiple locations may be indistinguishable from each other.


Day-Ahead LMPs for Hub and Load Zones
June 2-8, 2014
$/MWh
$80
$70
$60
$50
$40
$30
$20
$10
$0
($10)
($20)
02JUN14
03JUN14
04JUN14
05JUN14
06JUN14
07JUN14
08JUN14
CT Load Zone
Hub
ME Load Zone
NEMA Load Zone
NH Load Zone
RI Load Zone
SEMA Load Zone
VT Load Zone
WCMA Load Zone


Day-Ahead LMPs for Hub and External Nodes
June 2-8, 2014
$/MWh
$80
$70
$60
$50
$40
$30
$20
$10
$0
($10)
($20)
02JUN14
03JUN14
04JUN14
05JUN14
06JUN14
07JUN14
08JUN14
HQ HG
HQ I/II
Hub
NB
NNC
NY N-AC
NY-CSC

The following two graphs show hourly real-time LMPs for the Hub, the eight load zones, and the five external nodes. In cases where there is little or no price separation, the lines for multiple locations may be indistinguishable from each other.



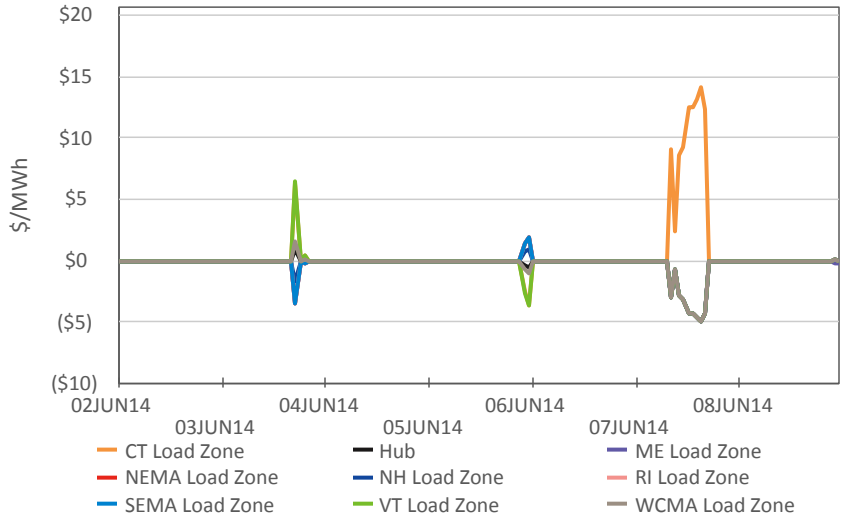


LMP Summary Statistics, June 2-8, 2014

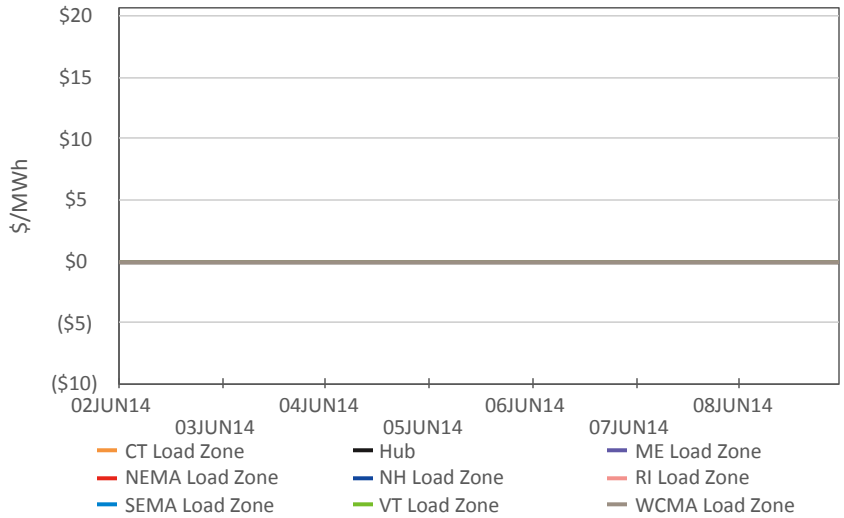
Hub/Zone/ Ext. Node	Avg DA LMP ($/MWh)	Avg RT LMP ($/MWh)	Min DA LMP ($/MWh)	Min RT LMP ($/MWh)	Max DA LMP ($/MWh)	Max RT LMP ($/MWh)	DA as % of Hub	RT as % of Hub	RT as % of DA	DA Std Dev	RT Std Dev	RT Std/DA Std
Hub	$35.96	$31.78	$12.82	$0.00	$62.05	$65.29	1.00	1.00	0.88	8.84	10.02	1.13
ME	$35.00	$31.27	$12.58	$0.00	$57.95	$62.72	0.97	0.98	0.89	8.19	9.81	1.20
NH	$35.78	$31.66	$12.81	$0.00	$60.79	$64.66	1.00	1.00	0.88	8.62	9.99	1.16
VT	$35.46	$31.11	$12.62	$0.00	$61.44	$64.72	0.99	0.98	0.88	8.73	9.80	1.12
CT	$36.76	$31.77	$12.67	$0.00	$63.90	$67.12	1.02	1.00	0.86	9.86	10.13	1.03
RI	$35.80	$31.72	$12.97	$0.00	$60.81	$64.12	1.00	1.00	0.89	8.54	9.93	1.16
SEMA	$35.79	$31.72	$12.84	$0.00	$61.20	$64.47	1.00	1.00	0.89	8.66	9.98	1.15
WCMA	$36.04	$31.78	$12.82	$0.00	$62.45	$65.65	1.00	1.00	0.88	8.91	10.03	1.13
NEMA	$36.15	$32.05	$12.91	$0.00	$61.97	$65.47	1.01	1.01	0.89	8.78	10.13	1.15
NB Ext	$33.92	$30.70	$12.24	$0.00	$55.06	$61.18	0.94	0.97	0.91	7.79	9.65	1.24
NY-N AC Ext	$35.49	$31.47	$12.50	$0.00	$62.83	$66.33	0.99	0.99	0.89	9.03	9.99	1.11
HQ Ext	$35.39	$31.40	$12.72	$0.00	$60.43	$63.94	0.98	0.99	0.89	8.48	9.87	1.16
HG Ext	$33.32	$29.24	$12.06	$0.00	$57.29	$60.39	0.93	0.92	0.88	7.83	9.10	1.16
CSC Ext	$37.27	$32.11	$12.75	$0.00	$65.25	$67.76	1.04	1.01	0.86	10.51	10.24	0.97
NNC Ext	$37.18	$31.81	$12.65	$0.00	$65.27	$67.21	1.03	1.00	0.86	10.47	10.13	0.97

The next two graphs show hourly day-ahead and real-time congestion components for the Hub and each of the eight load zones. In cases where there is little or no price separation, the lines for multiple locations may be indistinguishable from each other.

Day-Ahead Congestion Component for Hub and Load Zones
June 2-8, 2014



Real-Time Congestion Component for Hub and Load Zones
June 2-8, 2014



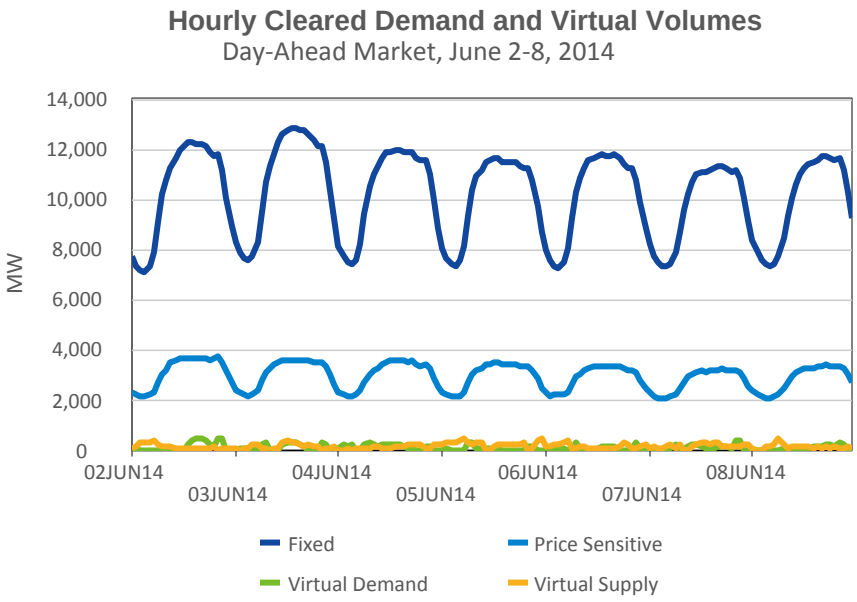
3. Energy Market Demand

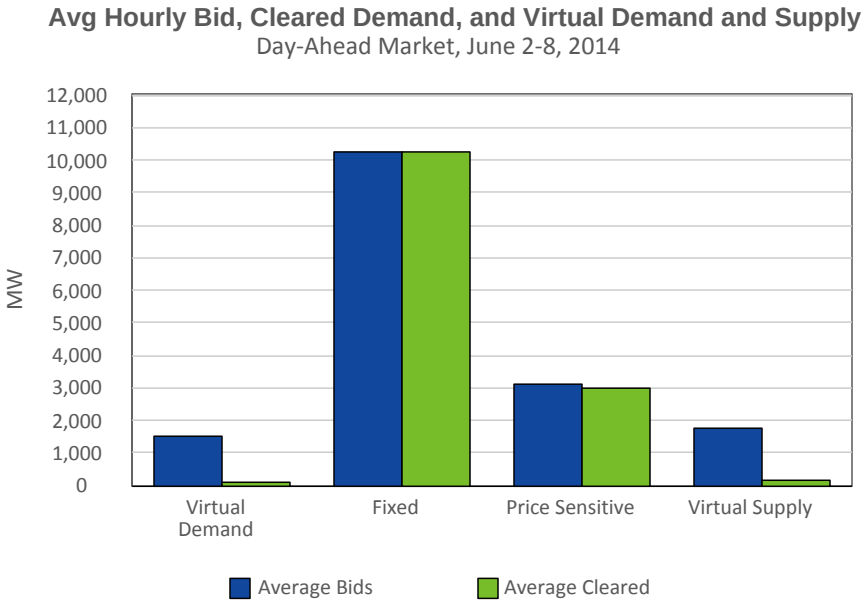
3.1 Day-Ahead Demand

The following table displays the day-ahead load obligation at the Hub, load zones, and external nodes for this week, last week, the same week a year ago and the percent change for each.

Location	This Week (MWh)	Last Week (MWh)	% Chg vs. Prior Week	Last Year (MWh)	% Chg vs. Prior Year
Hub	5,868	9,717	-39.6%	11,480	-48.9%
ME	190,905	184,372	3.5%	186,843	2.2%
NH	205,050	194,918	5.2%	207,647	-1.3%
VT	101,042	96,497	4.7%	103,056	-2.0%
CT	561,918	517,935	8.5%	552,588	1.7%
RI	147,256	137,480	7.1%	142,840	3.1%
SEMA	255,504	235,863	8.3%	255,497	0.0%
WCMA	337,332	315,246	7.0%	327,166	3.1%
NEMA	454,827	420,569	8.1%	454,729	0.0%
NB Ext	440	2,550	-82.7%	0	Large
NY-N AC Ext	18,736	9,968	88.0%	33,075	-43.4%
HQ Ext	0	1,307	-100.0%	0	0.0%
HG Ext	122	238	-48.7%	105	16.2%
CSC Ext	55,440	35,430	56.5%	53,830	3.0%
NNC Ext	13,071	6,980	87.3%	17,532	-25.4%

Participants can bid fixed and price sensitive demand as well as submit virtual demand bids and virtual supply offers into the Day-Ahead Energy Market. The first graph below shows hourly cleared values for these four categories of bids and offers. The second graph shows average hourly values for the week.





The following table summarizes day-ahead demand bid volumes submitted and cleared at the Hub and in the eight load zones (including nodal locations within each load zone) along with virtual demand (decrement or 'decs') bids and supply (increment or 'incs') offers on the same basis.

Daily Demand Bid and Virtual Volumes by Zone (MWh)
June 2-8, 2014

Location	Date	Fixed Demand Bids	Price Sens. Bids	Dec Bids	Inc Offers	Cleared Fixed Demand	Cleared Price Sens. Demand	Cleared Decs	Cleared Incs	Total DA Demand
Hub	02JUN14	0	0	1,036	2,136	0	0	856	746	856
Hub	03JUN14	0	0	844	1,682	0	0	664	268	664
Hub	04JUN14	0	0	1,710	2,651	0	0	1,480	1,205	1,480
Hub	05JUN14	0	0	627	7,433	0	0	437	953	437
Hub	06JUN14	0	0	622	2,304	0	0	427	864	427
Hub	07JUN14	0	0	1,037	1,844	0	0	877	364	877
Hub	08JUN14	0	0	1,315	1,248	0	0	1,126	428	1,126
ME	02JUN14	22,586	6,367	10,487	8,682	22,586	6,034	38	790	28,659
ME	03JUN14	22,151	5,772	12,655	7,255	22,151	5,396	63	862	27,610
ME	04JUN14	21,906	5,716	9,619	8,788	21,906	5,490	164	618	27,560
ME	05JUN14	21,572	5,724	10,183	8,943	21,572	5,450	112	1,263	27,134
ME	06JUN14	21,556	5,764	10,591	8,593	21,556	5,468	118	1,263	27,141
ME	07JUN14	20,903	5,588	11,365	7,910	20,903	5,396	108	396	26,407
ME	08JUN14	20,945	5,886	11,055	7,986	20,945	5,406	45	882	26,396
NH	02JUN14	17,547	12,453	2,946	5,696	17,547	12,439	458	774	30,444
NH	03JUN14	18,074	12,331	3,013	6,266	18,074	12,279	498	936	30,852
NH	04JUN14	17,393	11,735	2,598	5,998	17,393	11,735	384	790	29,512
NH	05JUN14	17,128	11,716	2,949	7,065	17,128	11,716	454	857	29,298
NH	06JUN14	17,187	11,703	3,349	6,828	17,187	11,670	371	811	29,228
NH	07JUN14	15,734	11,497	3,262	6,900	15,734	11,458	278	620	27,471
NH	08JUN14	15,848	12,138	3,242	6,760	15,848	12,068	330	1,352	28,246
VT	02JUN14	848	13,756	1,382	2,749	848	13,756	224	635	14,827
VT	03JUN14	768	14,896	1,251	2,652	768	14,896	133	888	15,796
VT	04JUN14	864	14,134	1,173	3,293	864	14,134	131	581	15,129
VT	05JUN14	875	13,691	1,051	3,723	875	13,691	91	747	14,657
VT	06JUN14	863	13,062	1,227	3,319	863	13,062	57	607	13,982
VT	07JUN14	812	11,944	1,314	3,095	812	11,944	188	618	12,945
VT	08JUN14	881	12,677	1,304	2,495	881	12,677	148	383	13,706
CT	02JUN14	62,505	18,929	4,964	4,759	62,505	18,330	850	295	81,685
CT	03JUN14	66,190	19,440	3,660	6,084	66,190	18,416	747	766	85,354
CT	04JUN14	63,864	18,532	4,613	4,667	63,864	17,958	666	0	82,488
CT	05JUN14	61,845	17,808	3,575	8,512	61,845	17,384	385	2,258	79,613
CT	06JUN14	62,045	18,016	3,633	6,354	62,045	17,126	458	250	79,629
CT	07JUN14	59,470	16,326	3,855	5,925	59,470	16,302	603	2,566	76,376
CT	08JUN14	59,790	16,758	3,118	4,716	59,790	16,734	250	190	76,774
RI	02JUN14	18,128	2,846	3,211	5,918	18,128	2,846	298	182	21,272
RI	03JUN14	18,839	2,806	2,918	5,746	18,839	2,806	80	50	21,726
RI	04JUN14	18,454	2,686	3,024	6,029	18,454	2,686	175	32	21,315
RI	05JUN14	18,196	2,690	3,306	6,971	18,196	2,690	0	313	20,886
RI	06JUN14	18,242	2,759	3,516	6,642	18,242	2,759	220	306	21,221
RI	07JUN14	17,185	2,850	3,510	6,602	17,185	2,850	298	2	20,333
RI	08JUN14	17,612	2,852	3,322	6,408	17,612	2,852	38	182	20,502

Location	Date	Fixed Demand Bids	Price Sens. Bids	Dec Bids	Inc Offers	Cleared Fixed Demand	Cleared Price Sens. Demand	Cleared Decs	Cleared Incs	Total DA Demand
SEMA	02JUN14	32,056	5,638	567	1,824	32,056	4,993	297	4	37,346
SEMA	03JUN14	33,782	5,401	532	1,826	33,782	4,301	323	6	38,406
SEMA	04JUN14	32,175	5,162	480	1,830	32,175	4,472	240	0	36,887
SEMA	05JUN14	31,523	5,180	0	2,185	31,523	4,534	0	0	36,057
SEMA	06JUN14	31,634	5,281	457	1,852	31,634	4,260	243	3	36,137
SEMA	07JUN14	30,700	4,393	444	1,851	30,700	4,358	204	2	35,262
SEMA	08JUN14	30,969	4,459	254	1,740	30,969	4,424	14	34	35,408
WCMA	02JUN14	36,243	10,227	3,267	4,632	36,243	9,518	712	102	46,473
WCMA	03JUN14	39,113	10,380	3,030	4,658	39,113	9,346	652	189	49,112
WCMA	04JUN14	36,239	10,112	2,928	4,737	36,239	9,388	464	0	46,091
WCMA	05JUN14	35,725	9,868	2,806	5,487	35,725	9,238	214	60	45,178
WCMA	06JUN14	35,674	9,940	3,086	5,068	35,674	8,991	252	24	44,916
WCMA	07JUN14	34,396	8,171	3,276	5,038	34,396	8,147	448	4	42,991
WCMA	08JUN14	35,739	8,160	3,240	5,035	35,739	8,136	393	38	44,268
NEMA	02JUN14	58,667	8,682	613	1,480	58,667	7,938	198	50	66,803
NEMA	03JUN14	61,249	8,409	627	1,480	61,249	7,375	192	0	68,816
NEMA	04JUN14	57,848	8,242	556	1,480	57,848	7,464	44	0	65,355
NEMA	05JUN14	56,934	8,114	590	1,744	56,934	7,340	44	0	64,318
NEMA	06JUN14	57,702	8,113	634	1,480	57,702	7,094	98	0	64,894
NEMA	07JUN14	55,390	6,363	546	1,480	55,390	6,339	56	0	61,785
NEMA	08JUN14	56,310	6,560	546	1,480	56,310	6,536	10	0	62,856

3.2 Real-Time Demand

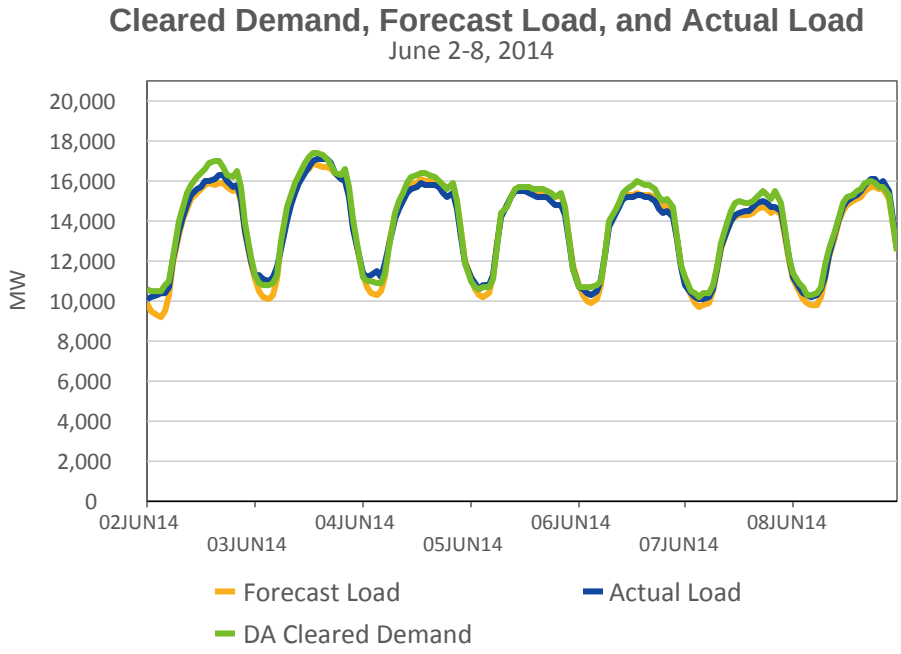
The following table displays the real-time load obligation at each load zone and external nodes for this week, last week, the same week a year ago, and the percent change for each.

Location	This Week (MWh)	Last Week (MWh)	% Chg vs. Prior Week	Last Year (MWh)	% Chg vs. Prior Year
ME	215,742	204,667	5.4%	208,062	3.7%
NH	210,712	195,176	8.0%	212,571	-0.9%
VT	102,464	95,759	7.0%	102,551	-0.1%
CT	562,690	519,463	8.3%	559,905	0.5%
RI	146,011	134,058	8.9%	149,795	-2.5%
SEMA	266,415	244,081	9.2%	277,568	-4.0%
WCMA	339,082	325,759	4.1%	345,678	-1.9%
NEMA	462,286	422,207	9.5%	473,580	-2.4%
NB Ext	8,470	5,500	54.0%	539	Large
NY-N AC Ext	25,832	11,950	116.2%	50,804	-49.2%
HQ Ext	0	0	0.0%	0	0.0%
HG Ext	0	0	0.0%	0	0.0%
CSC Ext	55,300	38,257	44.5%	53,830	2.7%
NNC Ext	15,766	9,229	70.8%	19,914	-20.8%

Real-Time Peak Hour System Load and Associated Hourly LMPs

Day	Hour	System Load (MW)	Hub	Maine Load Zone	NH Load Zone	VT Load Zone	CT Load Zone	RI Load Zone	SEMA Load Zone	WCMA Load Zone	NEMA Load Zone
02JUN14	18	16,511	$42.09	$40.32	$41.79	$41.40	$42.82	$41.64	$41.87	$42.21	$42.41
03JUN14	17	17,397	$45.04	$43.02	$44.46	$44.31	$46.19	$44.44	$44.63	$45.19	$45.25
04JUN14	14	16,081	$32.39	$32.33	$32.44	$31.64	$32.79	$32.00	$32.25	$32.44	$32.70
05JUN14	12	15,797	$42.80	$42.35	$42.59	$41.33	$42.34	$42.92	$42.90	$42.67	$43.31
06JUN14	14	15,552	$28.71	$28.01	$28.46	$27.63	$28.38	$28.88	$28.85	$28.63	$29.07
07JUN14	18	15,235	$30.38	$29.29	$30.04	$29.55	$30.43	$30.43	$30.35	$30.39	$30.65
08JUN14	18	16,325	$58.31	$57.56	$58.16	$56.51	$57.74	$58.60	$58.46	$58.14	$59.15

The graph below compares the hourly quantities of cleared day-ahead demand with the forecast and actual load. Cleared demand is the total of cleared fixed demand bids; cleared price sensitive demand bids, and cleared decrement bids.



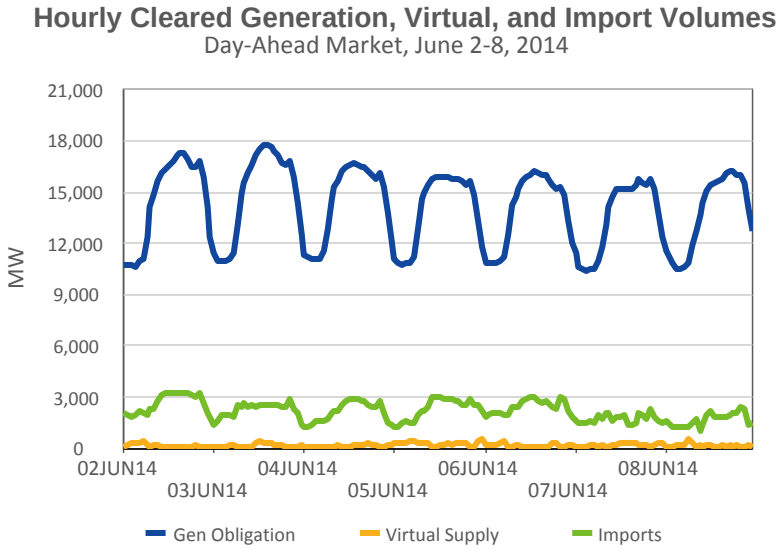
The table below compares the total quantities (MWh) of day-ahead load obligation with the real-time load obligation for each Load Zone (including nodal locations within each Load Zone) for the week. Day-ahead load obligation is composed of day-ahead cleared demand bids and cleared decrement bids. Real-time load obligation is comprised of metered load and internal bilateral contracts for load.

Zone	DA Load Obligation (MWh)	RT Load Obligation (MWh)	DA Delta (MWh)	DA % of RT
ME	190,905	215,742	-24,837	88.5%
NH	205,050	210,712	-5,663	97.3%
VT	101,042	102,464	-1,422	98.6%
CT	561,918	562,690	-772	99.9%
RI	147,256	146,011	1,245	100.9%
SEMA	255,504	266,415	-10,911	95.9%
WCMA	337,332	339,082	-1,750	99.5%
NEMA	454,827	462,286	-7,458	98.4%

4. Energy Market Supply

4.1 Day-Ahead Supply

The following graph displays hourly day-ahead generation obligation, along with cleared day-ahead increment offers and day-ahead imports.



The following table displays the average hourly day-ahead generation obligation, along with cleared day-ahead increment offers and day-ahead imports, for this week, last week, the same week a year ago, and the percent change for each.

Type	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
Day-Ahead Generation Obligation	14,160	13,073	8.3%	14,189	-0.2%
Day-Ahead Cleared Increments	176	474	-62.9%	160	9.7%
Day-Ahead Imports	2,176	1,876	16.0%	2,339	-7.0%

The following table provides the total Day-Ahead Imports by Interface for This Week, Last Week, the same week a year ago and the percent change for each.

Location	This Week	Last Week	% Chg vs. Prior Week	Last Year	% Chg vs. Prior Year
NB Ext	34,372	12,465	175.7%	93,277	-63.2%
NY-N AC Ext	110,006	70,167	56.8%	41,930	162.4%
HQ Ext	192,524	203,899	-5.6%	227,350	-15.3%
HG Ext	28,622	27,860	2.7%	30,398	-5.8%
CSC Ext	0	0	0.0%	0	0.0%
NNC Ext	0	700	-100.0%	0	0.0%

4.2 Real-Time Supply

Weekly Market Summary

The ISO reports daily metered generation by registered type of fuel on a weekly basis in the "Weekly Market Performance Report." The table below shows the relationship between the detailed fuel types registered with ISO New England (shown on the right) and the categories (on the left) into which they have been aggregated for reporting. The ISO aggregates the detailed fuel types to avoid disclosing information that could affect market competitiveness. Multiple fuel types shown, such as 'Coal/Oil,' denote dual-fuel capability. In the case of dual-fuel capable units, tabulations here will reflect the primary fuel as registered with the ISO which may not necessarily be the actual fuel used by the unit on a given day.

Category	Fuel Types
Coal	Coal
	Coal/Oil
Gas	Natural Gas
	Gas/Oil
Hydro	Pondage
	Pumped Storage
	Reservoir
	Run of River
Nuclear	Nuclear
Oil	Diesel Oil
	Jet Fuel Oil
	Oil
Refuse	Landfill Gas
	Methane/Refuse
	Refuse
	Steam
	Steam/Refuse
	Wood/Refuse
Solar	Solar
Wind	Wind

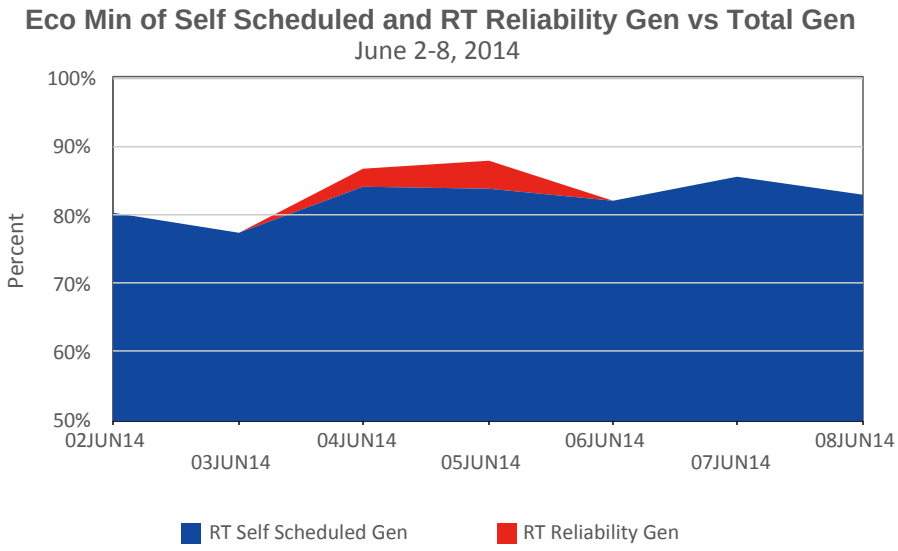
The following table provides daily and weekly totals, in megawatt-hours (MWh), of the amount of electricity produced by each fuel type (as registered) during the week. The data provided are for the full system, including "settlement only" generators that do not offer their output into the wholesale markets. Annual files of Daily Generation by Fuel Type may be found on the ISO's web site here.

	Metered Generation (Megawatt hours)							
Category	02JUN14	03JUN14	04JUN14	05JUN14	06JUN14	07JUN14	08JUN14	Total
Coal	89	13	5	15	11	0	3	137
Gas	153,451	161,975	142,321	129,736	119,923	130,118	142,066	979,589
Hydro	39,832	27,357	24,727	22,882	22,211	21,515	24,620	183,144
Nuclear	82,120	95,493	109,214	111,075	111,018	111,105	111,152	731,177
Oil	0	137	76	0	51	770	46	1,080
Refuse	31,921	20,259	20,022	21,188	20,392	20,024	19,601	153,407
Solar	3,025	2,008	730	323	1,292	1,605	1,531	10,514
Wind	5,836	4,210	1,537	1,213	7,165	5,039	1,263	26,265
Total	316,276	311,451	298,632	286,433	282,063	290,176	300,282	2,085,313

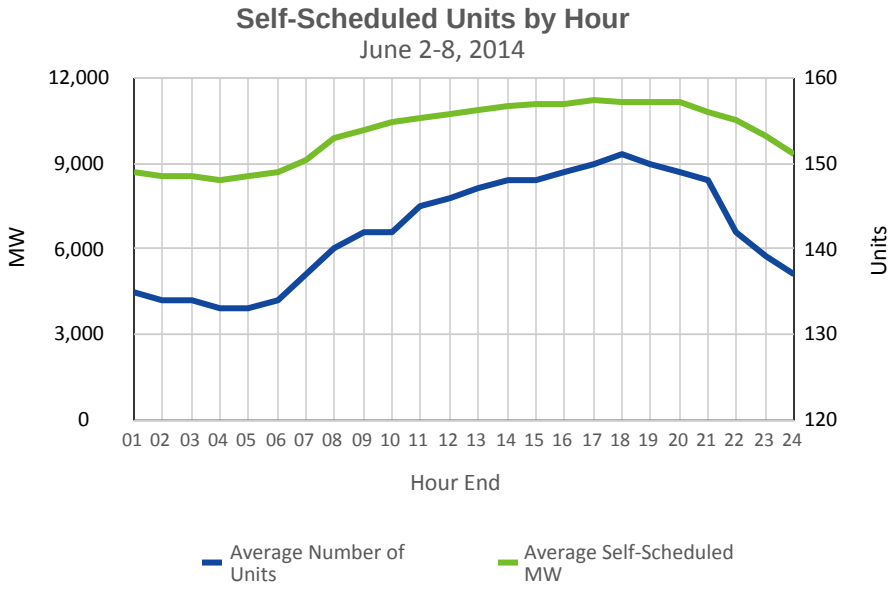
Online generators that are at their Economic Minimum output level are not eligible to set the clearing price. Real-Time Self-Scheduled Generation shown below reflects output by self-scheduled generation and by (non-dispatchable) Settlement Only Generators (SOGs). Real-Time Reliability Generation represents the aggregate economic minimum output level of generation committed for reliability reasons. The following table shows the sum of generation self scheduled (and SOGs), and that of real-time reliability committed units, and, for reference, the total daily generation in megawatts by day for the current week.

Day	Self Scheduled MWh	Real-Time Reliability MWh	Total Generation MWh
02JUN14	231,038	0	288,023
03JUN14	240,381	0	310,987
04JUN14	251,679	7,491	298,649
05JUN14	240,466	11,322	286,450
06JUN14	231,221	0	282,078
07JUN14	248,707	0	290,191
08JUN14	249,492	0	300,295

The following graph shows the total economic minimum MWh of self-scheduled generation and generation committed for reliability as a percentage of total generation.



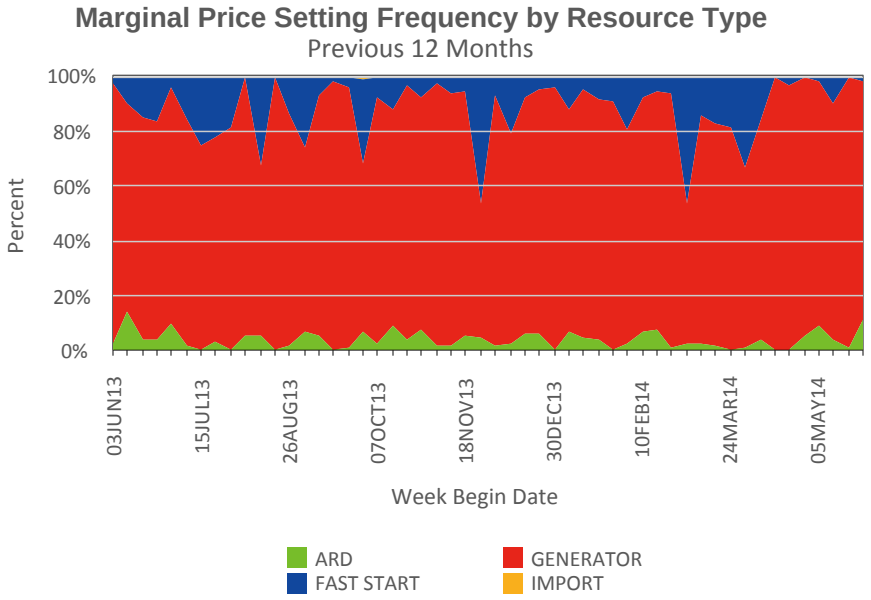
The following graph shows the average number of self-scheduled generating units and MWh for each hour of the last week.



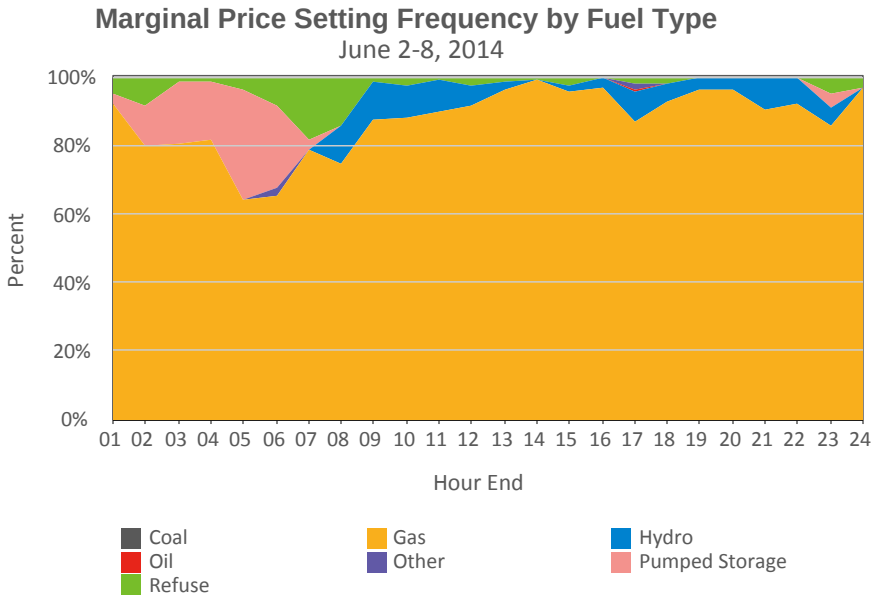
The following table provides the total real-time imports by interface for this week, last week, the same week a year ago, and the percent change for each.

Location	This Week (MWh)	Last Week (MWh)	% Chg vs. Prior Week	Last Year (MWh)	% Chg vs. Prior Year
NB Ext	36,378	12,220	197.7%	85,576	-57.5%
NY-N AC Ext	114,909	91,185	26.0%	50,638	126.9%
HQ Ext	201,754	213,199	-5.4%	237,225	-15.0%
HG Ext	29,635	31,530	-6.0%	30,595	-3.1%
CSC Ext	0	0	0.0%	0	0.0%
NNC Ext	6	1,281	-99.5%	450	-98.7%

The following graph shows the percentage of time in which a particular resource-type was responsible for setting the price during each of the last 52 weeks.



The next graph shows the percentage of time in which a particular fuel-type, as registered, was responsible for setting the price during each hour of the last week.



5. Net Commitment Period Compensation (NCPC)

The following three tables show daily NCPC payments for the week. The first two tables display day-ahead and real-time NCPC payments by day, separated by NCPC categories. The third table shows day-ahead and real-time second contingency reliability payments separated by reliability region.

Day-Ahead Reliability Payments (NCPC) by Day
June 2-8, 2014

Date	1st Contingency Reliability Cost Payments (Internal Locations)	1st Contingency Reliability Cost Payments (External Locations)	2nd Contingency Reliability Cost Payments	Voltage Reliability Cost Payments	Distribution Reliability Cost Payments	Generator Performance Audit
02JUN14	$53,681	$274	$0	$0	N/A	N/A
03JUN14	$9,661	$236	$0	$0	N/A	N/A
04JUN14	$20,072	$191	$41,630	$35,819	N/A	N/A
05JUN14	$102,915	$0	$96,460	$0	N/A	N/A
06JUN14	$20,677	$0	$0	$0	N/A	N/A
07JUN14	$17,580	$0	$0	$0	N/A	N/A
08JUN14	$8,639	$0	$0	$0	N/A	N/A
Total DA	$233,226	$702	$138,090	$35,819	N/A	N/A

Real-Time Reliability Payments (NCPC) by Day
June 2-8, 2014

Date	1st Contingency Reliability Cost Payments (Internal Locations)	1st Contingency Reliability Cost Payments (External Locations)	2nd Contingency Reliability Cost Payments	Voltage Reliability Cost Payments	Distribution Reliability Cost Payments	Generator Performance Audit
02JUN14	$45,395	$4,541	$0	$0	$0	$0
03JUN14	$7,958	$801	$0	$0	$0	$0
04JUN14	$2,334	$2,360	$0	$0	$0	$0
05JUN14	$4,387	$1,293	$0	$0	$0	$0
06JUN14	$10,746	$0	$0	$0	$0	$2,314
07JUN14	$25,718	$24,817	$0	$0	$0	$0
08JUN14	$18,207	$3,834	$0	$0	$0	$0
Total RT	$114,746	$37,647	$0	$0	$0	$2,314

DA and RT	$347,972	$38,349	$138,090	$35,819	$0	$0

Total Second Contingency Reliability Payments (NCPC)
By Reliability Region
June 2-8, 2014

Reliability Region	DA Reliability Payments	RT Reliability Payments	Total Reliability Payments
ME Region	$36,275	$0	$36,275
NH Region	$41,630	$0	$41,630
VT Region	$0	$0	$0
CT Region	$0	$0	$0
RI Region	$60,185	$0	$60,185
SEMA Region	$0	$0	$0
WCMA Region	$0	$0	$0
NEMA Region	$0	$0	$0

6. Reserve Markets

The results of the most recent Forward Reserve Market Auction, covering Summer 2014 Procurement Period (June-September), may be found on the ISO's Web site located here.

The following table shows the Daily Forward Reserve Daily Threshold Prices for the past week.

Forward Reserve Daily Threshold Prices
June 2-8, 2014

Day	Daily Threshold Price
02JUN14	$65.55
03JUN14	$68.11
04JUN14	$73.24
05JUN14	$88.80
06JUN14	$67.75
07JUN14	$61.16
08JUN14	$61.16

Forward Reserve Market (FRM) payments by reserve zone made during the prior week are shown in the following table. These figures are preliminary and subject to revision during the settlement process.

FRM Payment Summary by Reserve Zone
June 2-8, 2014

Reserve Zone	Reserve Product	Max FRM Payment	Total FRM Credits	Failure to Reserve Penalties	Failure to Activate Penalties	Total FRM Performance	Pct. of Max.
ALL	TMNSR	$3,998,059	$3,814,184	-$275,842	$0	$3,538,342	88.5%
ALL	TMOR	$1,574,524	$1,369,519	-$307,541	$0	$1,061,978	67.4%
ALL	ALL	$5,572,582	$5,183,704	-$583,383	$0	$4,600,320	82.6%
ROS	TMNSR	$2,604,413	$2,473,054	-$197,062	$0	$2,275,993	87.4%
ROS	TMOR	$470,413	$307,845	-$243,879	$0	$63,966	13.6%
ROS	ALL	$3,074,826	$2,780,899	-$440,941	$0	$2,339,958	76.1%
SWCT	TMNSR	$0	$0	$0	$0	$0	N/A
SWCT	TMOR	$431,287	$424,276	-$10,518	$0	$413,758	95.9%
SWCT	ALL	$431,287	$424,276	-$10,518	$0	$413,758	95.9%
CT	TMNSR	$1,393,645	$1,341,130	-$78,781	$0	$1,262,350	90.6%
CT	TMOR	$672,824	$637,398	-$53,144	$0	$584,254	86.8%
CT	ALL	$2,066,469	$1,978,529	-$131,925	$0	$1,846,604	89.4%
NEMABSTN	TMNSR	$0	$0	$0	$0	$0	N/A
NEMABSTN	TMOR	$0	$0	$0	$0	$0	N/A
NEMABSTN	ALL	$0	$0	$0	$0	$0	N/A

The following two tables show FRM charges allocated to each load zone during the prior week and the real-time reserve payments by reserve zone. These figures are also preliminary and subject to revision during the settlement process.

FRM Charge Summary by Load Zone
June 2-8, 2014

Load Zone	FRM Charge
ME	$419,639
NH	$425,225
VT	$204,563
CT	$1,176,382
RI	$290,432
SEMA	$529,161
WCMA	$632,075
NEMA	$922,844

Real-Time Reserve Payment Summary by Reserve Zone
June 2-8, 2014

Date	CT	NEMABSTN	ROS	SWCT	Total
02JUN14	$20	$95	$13,874	$277	$14,265
03JUN14	$0	$312	$16,505	$319	$17,135
06JUN14	$0	$59	$1,795	$29	$1,884
07JUN14	$0	$7	$347	$5	$359
08JUN14	$5,000	$1,265	$37,132	$5,921	$49,319
Total	$5,020	$1,738	$69,653	$6,552	$82,963

The follow table shows real-time reserve clearing prices. These figures are also preliminary and subject to revision during the settlement process.

Real-Time Reserve Clearing Prices
June 2-8, 2014

		SW Connecticut			Connecticut			NEMA/Boston			Rest Of System		
Day	Hr	TMSR	TMNSR	TMOR	TMSR	TMNSR	TMOR	TMSR	TMNSR	TMOR	TMSR	TMNSR	TMOR
02JUN14	4	$14.05	$0.00	$0.00	$14.05	$0.00	$0.00	$14.05	$0.00	$0.00	$14.05	$0.00	$0.00
02JUN14	11	$1.74	$0.00	$0.00	$1.74	$0.00	$0.00	$1.74	$0.00	$0.00	$1.74	$0.00	$0.00
02JUN14	14	$0.05	$0.00	$0.00	$0.05	$0.00	$0.00	$0.05	$0.00	$0.00	$0.05	$0.00	$0.00
02JUN14	15	$1.77	$0.00	$0.00	$1.77	$0.00	$0.00	$1.77	$0.00	$0.00	$1.77	$0.00	$0.00
02JUN14	16	$0.90	$0.00	$0.00	$0.90	$0.00	$0.00	$0.90	$0.00	$0.00	$0.90	$0.00	$0.00
02JUN14	21	$1.34	$0.00	$0.00	$1.34	$0.00	$0.00	$1.34	$0.00	$0.00	$1.34	$0.00	$0.00
02JUN14	22	$2.83	$0.00	$0.00	$2.83	$0.00	$0.00	$2.83	$0.00	$0.00	$2.83	$0.00	$0.00
02JUN14	23	$1.13	$0.00	$0.00	$1.13	$0.00	$0.00	$1.13	$0.00	$0.00	$1.13	$0.00	$0.00
03JUN14	10	$5.86	$0.00	$0.00	$5.86	$0.00	$0.00	$5.86	$0.00	$0.00	$5.86	$0.00	$0.00
03JUN14	11	$9.35	$0.00	$0.00	$9.35	$0.00	$0.00	$9.35	$0.00	$0.00	$9.35	$0.00	$0.00
03JUN14	12	$14.80	$0.00	$0.00	$14.80	$0.00	$0.00	$14.80	$0.00	$0.00	$14.80	$0.00	$0.00
03JUN14	13	$1.43	$0.00	$0.00	$1.43	$0.00	$0.00	$1.43	$0.00	$0.00	$1.43	$0.00	$0.00
06JUN14	8	$0.57	$0.00	$0.00	$0.57	$0.00	$0.00	$0.57	$0.00	$0.00	$0.57	$0.00	$0.00
06JUN14	10	$3.01	$0.00	$0.00	$3.01	$0.00	$0.00	$3.01	$0.00	$0.00	$3.01	$0.00	$0.00
07JUN14	8	$0.72	$0.00	$0.00	$0.72	$0.00	$0.00	$0.72	$0.00	$0.00	$0.72	$0.00	$0.00
08JUN14	10	$0.90	$0.00	$0.00	$0.90	$0.00	$0.00	$0.90	$0.00	$0.00	$0.90	$0.00	$0.00

Day	Hr	SW Connecticut			Connecticut			NEMA/Boston			Rest Of System		
		TMSR	TMNSR	TMOR	TMSR	TMNSR	TMOR	TMSR	TMNSR	TMOR	TMSR	TMNSR	TMOR
08JUN14	11	$13.93	$0.00	$0.00	$13.93	$0.00	$0.00	$13.93	$0.00	$0.00	$13.93	$0.00	$0.00
08JUN14	12	$3.72	$0.00	$0.00	$3.72	$0.00	$0.00	$3.72	$0.00	$0.00	$3.72	$0.00	$0.00
08JUN14	15	$2.11	$0.00	$0.00	$2.11	$0.00	$0.00	$2.11	$0.00	$0.00	$2.11	$0.00	$0.00
08JUN14	16	$6.75	$0.00	$0.00	$6.75	$0.00	$0.00	$6.75	$0.00	$0.00	$6.75	$0.00	$0.00
08JUN14	17	$6.17	$0.00	$0.00	$6.17	$0.00	$0.00	$6.17	$0.00	$0.00	$6.17	$0.00	$0.00
08JUN14	18	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11	$8.11
08JUN14	19	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67	$1.67
08JUN14	20	$0.86	$0.00	$0.00	$0.86	$0.00	$0.00	$0.86	$0.00	$0.00	$0.86	$0.00	$0.00
08JUN14	21	$10.76	$0.00	$0.00	$10.76	$0.00	$0.00	$10.76	$0.00	$0.00	$10.76	$0.00	$0.00

The table below displays the time intervals, reserve types, and bias adjustment values for any reserve bias adjustments during this week.

Real-Time Reserve Bias
June 2-8, 2014

Day	Reserve Bias
Jun 2-8, 2014	None

7. Glossary and Links

7.1 Locational Marginal Price (LMP)

A LMP is a calculated price of wholesale electric energy at a pricing node, load zone, reliability region, or the Hub. LMPs are comprised of three components: energy, congestion, and marginal losses. The energy component is the same at all locations, while the congestion and marginal loss components can vary among locations. More information on LMPs can be found at the ISO web site located here.

Analyze: Weekly Average Day-Ahead LMP Statistics, Hub and Load Zones (53 weeks, Excel format.)
TAB NAME: 'Avg DA and RT LMP Hub and Zones'

Analyze: Weekly Average Congestion and Loss Components, Hub and Load Zones (53 weeks, Excel format.)
TAB NAME: 'Average Congestion and Loss'

7.2 Day-Ahead and Real-Time Energy Markets

Day-Ahead and Real-Time Demand

Participants can bid fixed and price sensitive asset-based demand into the Day-Ahead Energy Market. They can also submit virtual demand bids called decrement (DECs) bids as well as external transaction bids. Day-ahead load obligation (DALO) is the result of clearing the Day-Ahead Energy Market, and is easily aggregated by location. DALO is the total MWh of cleared asset demand bids, cleared locational demand bids, cleared DECs and cleared exports at all locations. Real-time load obligation (RTLO) is the total MWhs of a participant's metered load. RTLO, less DALO positions on a locational basis represents a participant's RT Adjusted Net Interchange deviation.

Analyze: Weekly Total Day-Ahead and Real-Time Load Obligation, Hub and Zones (53 weeks, Excel format)
TAB NAME: 'Total DA and RT Load Obligation'

Day-Ahead and Real-Time Supply

Participants can offer "must run" and Economic asset-based supply into the Day-Ahead Energy Market. They can also submit virtual supply offers called increment (INCs) bids as well as external transaction offers or bids. Day-ahead generation obligation (DAGO) is the result of clearing the Day-Ahead Energy Market, and is easily aggregated by location. DAGO is the total MWhs of cleared asset supply offers, cleared INC offers, and cleared imports at all locations. Real-time generation obligation deviation (RTGO) is the total MWh of a participant's metered generation less their DAGO positions.

Analyze: Weekly Total Day-Ahead Generation Obligation, Hub and Zones (53 weeks, Excel format)
TAB NAME: 'DA Supply'

Analyze: Marginal Fuel Type by Week (53 weeks, Excel format).
TAB NAME: 'Percent Marginal Fuel Type'

Analyze: Marginal Resource Type by Week (53 weeks, Excel format).
TAB NAME: 'Percent Marginal Resource Type'

System Load

System load is 'net energy' for load on the system and is defined as the sum of generation and net external interchange, less pumping load. Real-time load obligation is the sum of all revenue quality metered load within the control area plus real-time external transaction sales (purchases on the ties are ignored).

For more information on the Day-Ahead and Real-Time Energy Markets and associated charges, see the ISO web site here for day-ahead and here for real-time.

7.3 Net Commitment Period Compensation (NCPC)

Reliability payments are made to eligible generators that have a shortfall between their revenue (based on clearing prices in the energy and regulation markets), and their offer (based on their energy offer, start-up fee, and no-load fee). Certain external transactions and virtual transactions are also eligible for these payments. These "make-whole" payments for reliability are calculated through the NCPC settlement process.

For more information on the Day-Ahead and Real-Time Energy Markets and associated charges, see the ISO web site here for day-ahead and here for real-time.

Analyze: Total Day-Ahead and Real-Time NCPC Payment, by Week (53 weeks, Excel format)
TAB NAME: 'Total DA and RT NCPC Payments'

Analyze: Total Day-Ahead and Real-Time NCPC Components, by Week (53 weeks, Excel format)
TAB NAME: 'Total DA and RT NCPC Components'

7.4 Reserve Market

The reserve markets are composed of the Forward Reserve Market (FRM) and Real-Time Reserve Markets. The FRM is the procurement mechanism for delivery of reserve products to meet TMNSR and TMOR requirements in New England during on-peak hours. Market Participants submit offers for FRM obligations in specific reserve zones to the Forward Reserve Market Auction, which occurs twice annually prior to each Seasonal Capability Period.

The real-time LMP calculation process simultaneously sets Real-Time Reserve Market Clearing Prices (RMCP) for Ten-Minute Spinning Reserve (TMSR), Ten-Minute Non-Spinning Reserve (TMNSR), and Thirty-Minute Operating Reserve (TMOR).

For more information on the Forward Reserve Market and Real-Time Reserve Market, see the ISO web site located here.

Analyze: Total Forward Reserve Market Results, by Week (53 weeks, Excel format)
TAB NAME: 'Total Forward Reserve Market'

Document Revision History		
Date	**Version**	**Remarks**
6/11/2014	Original	Initial posting.