

ISO-NE 2013-2014 OPERABLE CAPACITY ANALYSIS

June 28, 2013 - 50/50- FORECAST - CSO

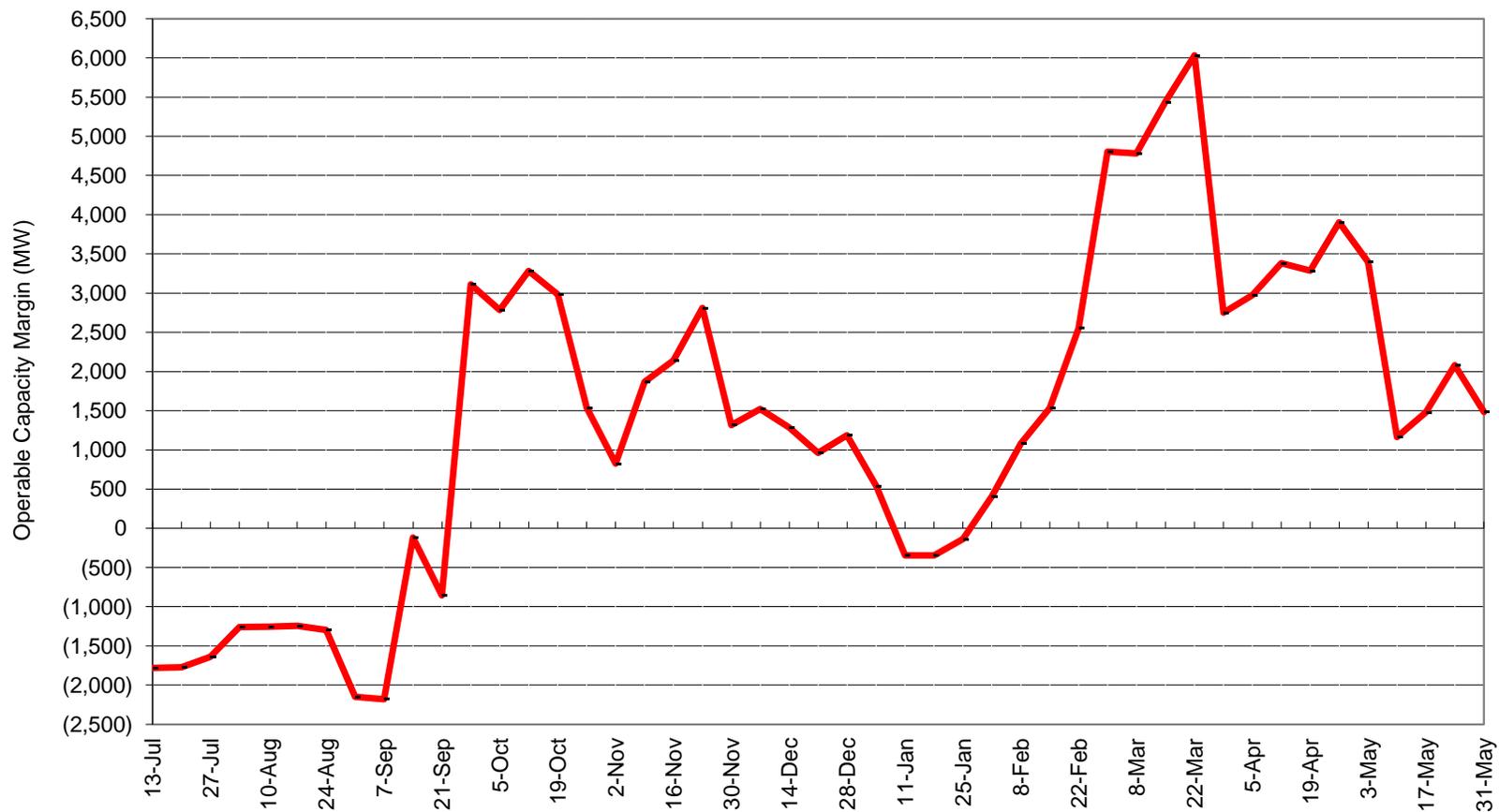
This analysis is a tabulation of weekly assessments shown in one single table. The information shows the operable capacity situation under assumed conditions for each week. It is not expected that the system peak will occur every week during June, July, and August and Mid September.

STUDY WEEK (Week Beginning, Saturday)	OPCAP SUPPLY							LOAD OBLIGATIONS			OPCAP MARGINS				
	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES CSO MW	ALLOWANCE FOR UNPLANNED OUTAGES MW	GAS AT RISK MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREMENT MW	NET LOAD OBLIGATION MW	OPCAP MARGIN MW	OPCAP FROM OP4 ACTIVE REAL-TIME DR MW	OPCAP MARGIN w/ OP4 actions through OP4 Step 2 MW	OPCAP FROM OP4 REAL-TIME EMER. GEN MW	OPCAP MARGIN w/ OP4 actions through OP4 Step 6 MW
	[1]	[2]	[3]	[4]	[5]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]
7/13/2013	29,751	1,039	0	1,407	2,100	0	27,283	26,690	2,375	29,065	(1,782)	347	(1,435)	165	(1,270)
7/20/2013	29,751	1,039	0	1,399	2,100	0	27,291	26,690	2,375	29,065	(1,774)	347	(1,427)	165	(1,262)
7/27/2013	29,751	1,183	0	1,410	2,100	0	27,424	26,690	2,375	29,065	(1,641)	347	(1,294)	165	(1,129)
8/3/2013	29,748	1,183	0	1,025	2,100	0	27,806	26,690	2,375	29,065	(1,259)	352	(907)	163	(744)
8/10/2013	29,748	1,183	0	1,022	2,100	0	27,809	26,690	2,375	29,065	(1,256)	352	(904)	163	(741)
8/17/2013	29,748	1,183	0	1,010	2,100	0	27,821	26,690	2,375	29,065	(1,244)	352	(892)	163	(729)
8/24/2013	29,748	1,183	0	1,062	2,100	0	27,769	26,690	2,375	29,065	(1,296)	352	(944)	163	(781)
8/31/2013	29,419	1,183	0	1,586	2,100	0	26,916	26,690	2,375	29,065	(2,149)	467	(1,682)	234	(1,448)
9/7/2013	29,419	1,183	0	1,617	2,100	0	26,885	26,690	2,375	29,065	(2,180)	467	(1,713)	234	(1,479)
9/14/2013	29,419	803	0	3,162	2,100	0	24,960	22,701	2,375	25,076	(116)	467	351	234	585
9/21/2013	29,419	1,183	0	4,373	2,100	0	24,129	22,609	2,375	24,984	(855)	467	(388)	234	(154)
9/28/2013	29,419	1,183	38	5,856	2,800	0	21,984	16,499	2,375	18,874	3,110	467	3,577	234	3,811
10/5/2013	29,560	1,183	38	6,287	2,800	0	21,694	16,534	2,375	18,909	2,785	467	3,252	234	3,486
10/12/2013	29,560	1,183	38	4,854	2,800	0	23,127	17,468	2,375	19,843	3,284	467	3,751	234	3,985
10/19/2013	29,560	1,183	38	4,787	2,800	0	23,194	17,836	2,375	20,211	2,983	467	3,450	234	3,684
10/26/2013	29,560	989	114	5,105	3,600	0	21,958	18,045	2,375	20,420	1,538	467	2,005	234	2,239
11/2/2013	29,560	1,183	114	5,896	3,600	0	21,361	18,162	2,375	20,537	824	467	1,291	234	1,525
11/9/2013	29,560	1,183	114	4,504	3,600	0	22,753	18,510	2,375	20,885	1,868	467	2,335	234	2,569
11/16/2013	29,560	1,183	114	3,486	3,600	0	23,771	19,255	2,375	21,630	2,141	467	2,608	234	2,842
11/23/2013	29,560	1,183	114	2,091	3,600	0	25,166	19,982	2,375	22,357	2,809	467	3,276	234	3,510
11/30/2013	29,714	1,183	123	3,940	3,200	0	23,880	20,188	2,375	22,563	1,317	404	1,721	168	1,889
12/7/2013	29,714	1,183	123	2,890	3,200	554	24,376	20,480	2,375	22,855	1,521	404	1,925	168	2,093
12/14/2013	29,714	1,183	123	2,073	3,200	1,597	24,150	20,491	2,375	22,866	1,284	404	1,688	168	1,856
12/21/2013	29,714	1,183	123	1,545	3,200	2,384	23,891	20,554	2,375	22,929	962	404	1,366	168	1,534
12/28/2013	29,714	1,183	123	1,116	3,200	2,590	24,114	20,554	2,375	22,929	1,185	404	1,589	168	1,757
1/4/2014	29,714	1,183	123	1,397	2,800	3,078	23,745	20,830	2,375	23,205	540	404	944	168	1,112
1/11/2014	29,714	1,183	123	1,481	2,800	3,410	23,329	21,299	2,375	23,674	(345)	404	59	168	227
1/18/2014	29,714	1,183	123	1,482	2,800	3,410	23,328	21,299	2,375	23,674	(346)	404	58	168	226
1/25/2014	29,714	1,183	123	755	2,800	3,929	23,536	21,299	2,375	23,674	(138)	404	266	168	434
2/1/2014	29,714	1,183	123	1,549	3,100	2,513	23,858	21,075	2,375	23,450	408	404	812	168	980
2/8/2014	29,714	1,183	123	1,161	3,100	2,498	24,261	20,805	2,375	23,180	1,081	404	1,485	168	1,653
2/15/2014	29,714	1,183	123	1,151	3,100	2,084	24,685	20,776	2,375	23,151	1,534	404	1,938	168	2,106
2/22/2014	29,714	1,183	123	621	3,100	1,861	25,438	20,511	2,375	22,886	2,552	404	2,956	168	3,124
3/1/2014	29,714	1,183	123	1,185	2,200	941	26,694	19,515	2,375	21,890	4,804	404	5,208	168	5,376
3/8/2014	29,714	1,183	123	2,011	2,200	492	26,317	19,162	2,375	21,537	4,780	404	5,184	168	5,352
3/15/2014	29,714	1,183	123	1,964	2,200	78	26,778	18,965	2,375	21,340	5,438	404	5,842	168	6,010
3/22/2014	29,714	1,183	123	1,817	2,200	0	27,003	18,597	2,375	20,972	6,031	404	6,435	168	6,603
3/29/2014	29,714	1,183	123	5,174	2,700	0	23,146	18,023	2,375	20,398	2,748	467	3,215	234	3,449
4/5/2014	29,560	1,183	123	5,294	2,700	0	22,872	17,524	2,375	19,899	2,973	467	3,440	234	3,674
4/12/2014	29,560	1,183	123	5,139	2,700	0	23,027	17,271	2,375	19,646	3,381	467	3,848	234	4,082
4/19/2014	29,560	1,183	123	5,749	2,700	0	22,417	16,757	2,375	19,132	3,285	467	3,752	234	3,986

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4/26/2014	29,560	1,183	123	4,700	3,400	0	22,766	16,490	2,375	18,865	3,901	467	4,368	234	4,602
5/3/2014	29,560	1,183	123	5,233	3,400	0	22,233	16,463	2,375	18,838	3,395	467	3,862	234	4,096
5/10/2014	29,560	1,183	123	3,705	3,400	0	23,761	20,223	2,375	22,598	1,163	467	1,630	234	1,864
5/17/2014	29,560	1,183	123	2,397	3,400	0	25,069	21,216	2,375	23,591	1,478	467	1,945	234	2,179
5/24/2014	29,560	1,183	123	874	3,400	0	26,592	22,138	2,375	24,513	2,079	467	2,546	234	2,780
5/31/2014	28,513	1,831	123	868	2,800	0	26,799	22,940	2,375	25,315	1,484	1,038	2,522	348	2,870

1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO. Does not include Settlement Only Generators.
2. External Node Available Capacity MW based on external Capacity Supply Obligations, CSO .
3. New resources that have acquired a CSO but have not become commercial.
4. Planned Outages is the total of Generator/DARD Outages for the period. This value would also include any known long-term Forced Outages.
5. Allowance for Unplanned Outages includes forced outages and maintenance outages scheduled less than 14 days in advance per ISO New England Operating Procedure No. 5 Appendix A.
7. Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions or gas pipeline maintenance outages.
8. Net OpCap Supply MW Available (1 + 2 + 3 - 4 - 5 - 6 - 7 = 8)
9. Peak Load Forecast per data included in the 2013 CELT Report adjusted for Other Demand Resources.
10. Operating Reserve Requirement based on 125% of first largest contingency plus 50% the second largest contingency.
11. Total Net Load Obligation per the formula(9 + 10 = 11)
12. Net OPCAP Margin MW = Net Op Cap Supply MW minus Net Load Obligation (8 - 11 = 12)
13. OP 4 Action 2 Real-time Demand Response. Reserve Margins and Distribution Loss Factor Gross Ups are Included.
14. OPCAP Margin taking into account Real Time Demand Response through OP4 Step 2 (12 + 13 = 14)
15. OP 4 Action 6 Emergency Generation Response without the Voltage Reduction requiring > 10 Minutes. Real Time Emergency Generation is capped at 600MW. Reserve Margins and Distribution Loss Factor Gross Ups are Included.
16. OPCAP Margin taking into account Real Time Demand Response and Real Time Emergency Generation through OP4 Step 6 (14 + 15 = 16); This does not include Emergency Energy Transactions (EETs).

New England Operable Capacity Margins - CSO -
50/50 FORECAST



July 13, 2013 - May 31, 2014, W/B Saturday



Rachel Wilkins-Thurman
Outage Coordination

To: NEPOOL Participants

From: Rachel Wilkins-Thurman

Subject: 2013-14 Current Year Annual Maintenance Schedule

Date: June 28, 2013

Following this transmittal letter, you will find the 2013-14 Annual Maintenance Schedule (AMS) dated June 28, 2013 with an Operable Capacity Analysis (with forecasted external transactions) for July 13, 2013 - May 31, 2014. This schedule covers the fourth Forward Capacity Market procurement period.

Periodically, individual Participants will receive a copy of the AMS that depicts only the maintenance requests that they submitted to ISO New England. Participants that own entitlements in units must contact the Lead Participant to obtain the maintenance schedule for each unit.

2013-14 AMS- DATED June 28, 2013

The 2013-14 AMS - dated June 28, 2013 reflects all planned maintenance requests and also includes any known long-term Forced Outages for July 13, 2013 - May 31, 2014 that have been submitted to the ISO through June 27, 2013. Those generator owners who have not yet submitted their anticipated maintenance schedules for Procurement Period 2013-14 are encouraged to do so.

2013-14 OPERABLE CAPACITY ANALYSIS

The Operable Capacity Analysis for July 13, 2013 - May 31, 2014 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of negative 2,180 MW during the summer for week beginning September 7th and for the winter week beginning January 18th a negative 346MW. The overall margin has become less positive since resources have been removed since the last publication.

Peak Load Exposures (PLE)

After being adjusted for Other Demand Resources, ODR, the Peak Load Exposure (PLE) for the summer and winter of 2013-14 is 26,690 MW and 21,299 MW respectively, and reflects the seasonal peak load based on the 2013 CELT Report.

Generating Unit Capabilities

Resource Capacity Supply Obligations, CSO, are based upon data as of June 28, 2013 and include Energy Management System (EMS) assets. New unit additions are factored into the New Generation column at the appropriate points in time.

Interchange

Only external resources with a Capacity Supply Obligation, CSO, are represented in the analysis.



Unplanned Outage Allotment

Allowances for unplanned outages, as documented in ISO New England SOP-OUTSCH.0030.0040 range from 2,700 MW to 3,400 MW during the winter and summer months.

External Transmission

Maintenance outages of Hydro-Quebec Phase II and Highgate are included in the analysis when the Capacity Supply Obligation (CSO) is impacted.

Weekly Operating Reserve

The weekly operating reserve is equal to one hundred twenty five percent (125%) of the largest contingency plus one-half (50%) of the second-largest contingency.

Generation at Risk Due to Gas Supply Issues

A column has been included in the Operable Capacity Analysis to reflect natural gas-fired generating capability that may not be available due to the unavailability of gas.

If you have any questions or comments concerning this edition of the 2013-14 AMS or Operable Capacity Analysis, or if you have any comments or suggestions please feel free to contact Rachel Wilkins-Thurman at (413) 540-4261, Joanne Bialas (413) 535-4162, or Ingrid Canaday (413) 535-4329, or by email at opamoreq@iso-ne.com.