



**Joanne Bialas**  
Outage Coordination

To: NEPOOL Participants

From: Joanne Bialas

**Subject: 2012-13 Current Year Annual Maintenance Schedule**

Date: July 3, 2012

Following this transmittal letter, you will find the 2012-13 Annual Maintenance Schedule (AMS) dated July 3, 2012, with rounded weekly planned outage totals only and an Operable Capacity Analysis (with forecasted external transactions) for June 30, 2012- May 31, 2013. This schedule covers the third Forward Capacity Market procurement period.

*Please note that there may be generation outages due to gas pipeline outages that are currently tentatively scheduled for some weeks in summer and early-fall of 2012 that may further decrease the operable capacity margin.*

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.

**2012-13 AMS - DATED July 3, 2012**

The 2012 AMS - dated July 3, 2012 reflects all planned maintenance requests for June 30, 2012- May 31, 2013 that have been submitted to the ISO through June 29, 2012. Those generator owners who have not yet submitted their anticipated maintenance schedules for Procurement Period 2012-13 are encouraged to do so.

**2012-13 OPERABLE CAPACITY ANALYSIS**

The Operable Capacity Analysis for June 30, 2012 - May 31, 2013 presently forecasts the lowest Long Term Operable Capacity Margin, LTOCM, of -570 MW for week beginning June 30<sup>th</sup>. The overall margin has become less positive since resources have been removed or repositioned since the last publication.

**Peak Load Exposures (PLE)**

After being adjusted for Other Demand Resources, ODR, the Peak Load Exposure (PLE) for the winter was 21,412 MW and summer of 2012 is 26,462 MW, and reflects the seasonal peak load based on the 2012 CELT Report.

**Generating Unit Capabilities**

Resource Capacity Supply Obligations, CSO, are based upon data as of June 29, 2012 and includes Energy Management System (EMS) assets. New unit additions are factored into the New Generation column at the appropriate points in time.



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

No maintenance of Hydro-Quebec Phase II or Highgate has been included in the analysis.

Weekly Operating Reserve

The weekly operating reserve is equal to one hundred percent (100%) 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 2012 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, Patrick Boughan at (413) 540-4712 or by email at [opamoreq@iso-ne.com](mailto:opamoreq@iso-ne.com).

# ISO-NE July 2012 - May 2013 OPERABLE CAPACITY ANALYSIS

July 3, 2012 - 50/50 FORECAST

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	ALLOWANCE FOR UNPLANNED OUTAGES MW	GEN AT RISK DUE TO GAS SUP MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREMEN T 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]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]
06/30/2012	29,577	1,052	200	841	2,100	0	27,890	26,462	2,000	28,462	(570)	500	(70)	350	280
07/07/2012	29,503	1,052	200	574	2,100	0	28,080	26,462	2,000	28,462	(380)	500	120	350	470
07/14/2012	29,469	1,052	200	291	2,100	0	28,330	26,462	2,000	28,462	(130)	500	370	350	720
07/21/2012	29,486	1,052	200	265	2,100	0	28,370	26,462	2,000	28,462	(90)	500	410	350	760
07/28/2012	29,475	1,052	200	252	2,100	0	28,380	26,462	2,000	28,462	(80)	500	420	350	770
08/04/2012	29,936	658	200	227	2,100	0	28,470	26,462	2,000	28,462	10	500	510	350	860
08/11/2012	29,934	658	200	225	2,100	0	28,470	26,462	2,000	28,462	10	500	510	350	860
08/18/2012	29,934	658	200	228	2,100	0	28,460	26,462	2,000	28,462	0	500	500	350	850
08/25/2012	29,948	658	200	242	2,100	0	28,460	26,462	2,000	28,462	0	500	500	350	850
09/01/2012	29,720	756	200	242	2,100	0	28,330	26,462	2,000	28,462	(130)	500	370	350	720
09/08/2012	29,722	756	200	334	2,100	0	28,240	26,462	2,000	28,462	(220)	500	280	350	630
09/15/2012	29,950	756	200	2,564	2,100	0	26,240	22,530	2,000	24,530	1,710	500	2,210	350	2,560
09/22/2012	29,785	756	200	2,912	2,100	0	25,730	22,439	2,000	24,439	1,290	500	1,790	350	2,140
09/29/2012	30,228	555	300	3,730	2,800	0	24,550	16,615	2,000	18,615	5,930	500	6,430	350	6,780
10/06/2012	30,404	555	300	5,078	2,800	0	23,380	16,651	2,000	18,651	4,730	500	5,230	350	5,580
10/13/2012	30,708	555	300	7,562	2,800	0	21,200	17,582	2,000	19,582	1,620	500	2,120	350	2,470
10/20/2012	31,691	555	300	8,400	2,800	0	21,050	17,949	2,000	19,949	1,100	500	1,600	350	1,950
10/27/2012	30,394	555	300	4,396	3,600	0	22,950	18,157	2,000	20,157	2,790	500	3,290	350	3,640
11/03/2012	30,652	555	300	4,532	3,600	0	23,080	18,273	2,000	20,273	2,810	500	3,310	350	3,660
11/10/2012	30,430	555	300	3,470	3,600	0	23,920	18,620	2,000	20,620	3,300	500	3,800	350	4,150
11/17/2012	30,088	555	300	806	3,600	0	26,240	19,363	2,000	21,363	4,880	500	5,380	350	5,730
11/24/2012	30,238	555	300	1,662	3,600	0	25,530	20,088	2,000	22,088	3,440	500	3,940	350	4,290
12/01/2012	30,209	555	400	342	3,200	0	27,220	20,304	2,000	22,304	4,920	500	5,420	350	5,770
12/08/2012	30,264	555	400	431	3,200	0	27,190	20,595	2,000	22,595	4,590	500	5,090	350	5,440
12/15/2012	30,264	555	400	411	3,200	0	27,210	20,607	2,000	22,607	4,600	500	5,100	350	5,450
12/22/2012	30,264	555	400	411	3,200	0	27,210	20,669	2,000	22,669	4,540	500	5,040	350	5,390
12/29/2012	30,207	555	400	311	3,200	0	27,250	20,944	2,000	22,944	4,310	500	4,810	350	5,160
01/05/2013	30,207	555	400	311	2,800	2,000	25,650	21,412	2,000	23,412	2,240	500	2,740	350	3,090
01/12/2013	30,207	555	400	311	2,800	2,000	25,650	21,412	2,000	23,412	2,240	500	2,740	350	3,090
01/19/2013	30,207	555	400	311	2,800	2,000	25,650	21,412	2,000	23,412	2,240	500	2,740	350	3,090
01/26/2013	30,207	555	400	311	3,100	2,000	25,350	21,188	2,000	23,188	2,160	500	2,660	350	3,010
02/02/2013	30,207	555	400	311	3,100	2,000	25,350	20,920	2,000	22,920	2,430	500	2,930	350	3,280
02/09/2013	30,213	555	400	748	3,100	2,000	24,920	20,891	2,000	22,891	2,030	500	2,530	350	2,880
02/16/2013	30,213	555	400	748	3,100	2,000	24,920	20,627	2,000	22,627	2,290	500	2,790	350	3,140
02/23/2013	30,213	555	400	748	3,100	0	26,920	19,633	2,000	21,633	5,290	500	5,790	350	6,140
03/02/2013	30,213	555	400	748	2,200	0	27,820	19,282	2,000	21,282	6,540	500	7,040	350	7,390
03/09/2013	30,362	555	400	1,079	2,200	0	27,640	19,085	2,000	21,085	6,550	500	7,050	350	7,400
03/16/2013	30,361	555	400	1,268	2,200	0	27,450	18,718	2,000	20,718	6,730	500	7,230	350	7,580
03/23/2013	30,338	555	400	1,019	2,200	0	27,670	18,150	2,000	20,150	7,520	500	8,020	350	8,370
03/30/2013	30,465	555	400	2,526	2,700	0	25,790	17,638	2,000	19,638	6,150	500	6,650	350	7,000
04/06/2013	30,267	555	400	1,986	2,700	0	26,140	17,385	2,000	19,385	6,750	500	7,250	350	7,600
04/13/2013	30,495	555	400	4,435	2,700	0	23,920	16,873	2,000	18,873	5,050	500	5,550	350	5,900
04/20/2013	30,527	555	400	3,560	2,700	0	24,820	16,607	2,000	18,607	6,210	500	6,710	350	7,060
04/27/2013	30,218	555	400	2,522	3,400	0	24,850	16,580	2,000	18,580	6,270	500	6,770	350	7,120
05/04/2013	30,237	555	400	2,768	3,400	0	24,620	19,998	2,000	21,998	2,620	500	3,120	350	3,470
05/11/2013	30,219	555	400	2,565	3,400	0	24,810	20,973	2,000	22,973	1,840	500	2,340	350	2,690
05/18/2013	30,511	555	400	1,904	3,400	0	25,760	21,878	2,000	23,878	1,880	500	2,380	350	2,730
05/25/2013	30,056	555	400	206	3,400	0	27,010	22,872	2,000	24,872	2,140	500	2,640	350	2,990

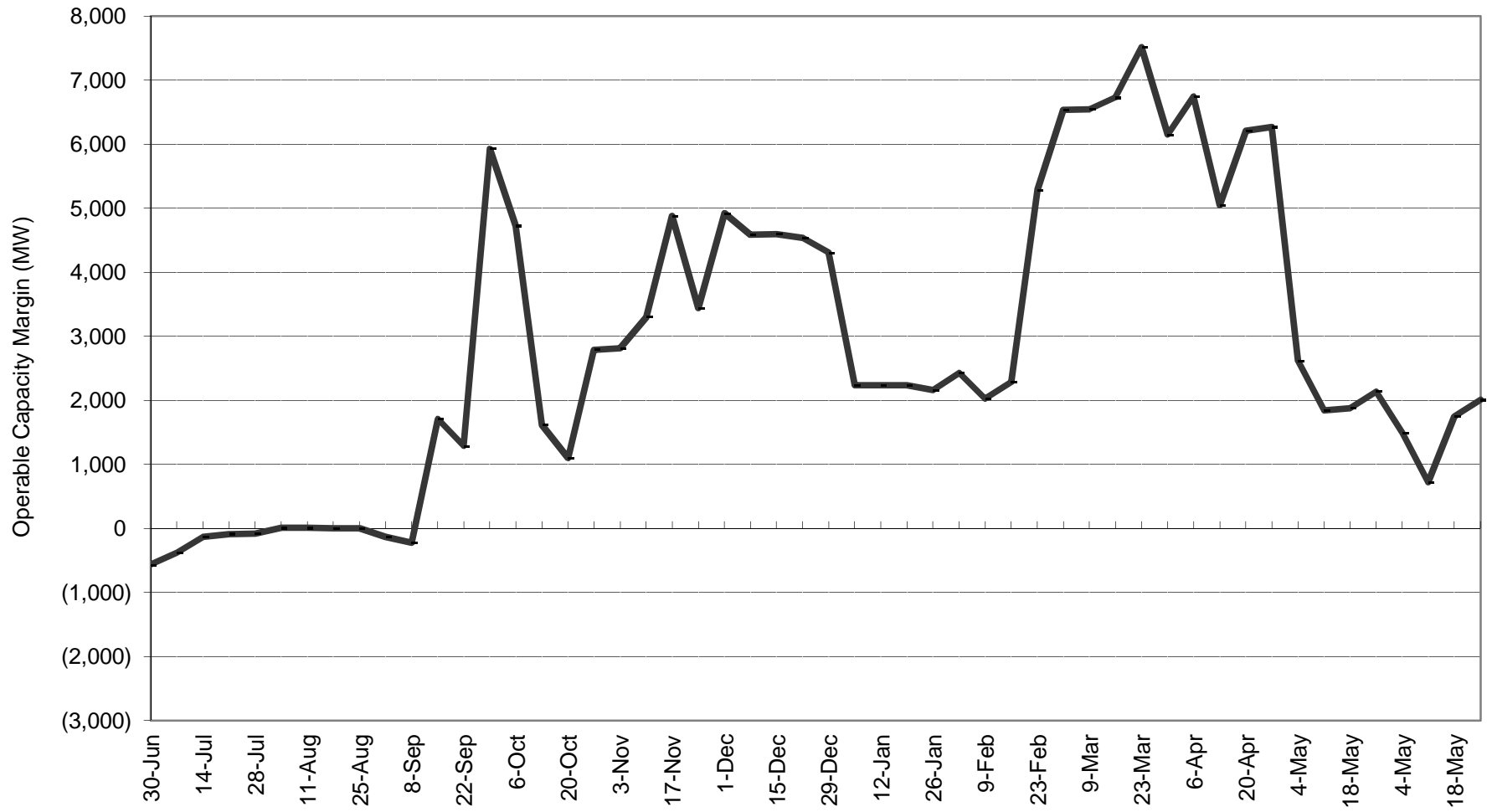
# ISO-NE July 2012 - May 2013 OPERABLE CAPACITY ANALYSIS

**July 3, 2012 - 50/50 FORECAST**

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 <small>(Week Beginning)</small>	OPCAP SUPPLY							LOAD OBLIGATIONS			OPCAP MARGINS				
	AVAILABLE OPCAP MW	EXTERNAL NODE AVAIL CAPACITY MW	NON COMMERCIAL CAPACITY MW	PLANNED OUTAGES	ALLOWANCE FOR UNPLANNED OUTAGES MW	GEN AT RISK DUE TO GAS SUP MW	NET OPCAP SUPPLY MW	PEAK LOAD FORECAST MW	OPER RESERVE REQUIREMEN T 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
<p><b>1. Available OPCAP MW based on resource Capacity Supply Obligations, CSO, from Forward Capacity Tracking System, FCTS . Does not include Settlement Only Generators.</b> ( LTOCM application Case Output-System Results-column PreOutage CSO MW)</p> <p><b>2. External Node Available Capacity MW based on external Capacity Supply Obligations, CSO.</b> (LTOCM application Case Output-System Results-(EXTERNAL NODE AVAIL OPCAP MW+ ZONAL EXPORT LIMITATIONS MW)</p> <p><b>3. New resources that have not yet acquired a CSO but will become commercial in the future.</b></p> <p><b>4. Planned Outages includes outages scheduled greater than or equal to 15 days in advance.</b></p> <p><b>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.</b> (LTOCM application Case Output-System Results-UNPLANNED OUTAGES MW)</p> <p><b>6. Generation at Risk due to Gas Supply pertains to gas fired capacity expected to be at risk during cold weather conditions.</b> (LTOCM application Case Output-System Results-GEN RISK DUE TO GAS SUP MW)</p> <p><b>7. Total OpCap Supply Available per the formula (1 + 2 + 3 - 4 - 5 - 6 = 7)</b></p> <p><b>8. Peak Load Forecast per data included in the 2011 CELT Report adjusted for Other Demand Resources.</b> (LTOCM application-Case Output-System Results-LOAD FORECAST MW)</p> <p><b>9. Operating Reserve Requirement based on first largest contingency plus 1/2 the second largest contingency.</b> (LTOCM application Case Output-System Results-OPER RESERVE REQUIREMENT MW)</p> <p><b>10. Total Load Obligation per the formula (8 + 9 = 10)</b></p> <p><b>11. Net OPCAP Supply minus Net Load Obligation (7 - 10 = 11)</b></p> <p><b>12. OP 4 Action 2 Real-time Demand Response based on OP4 Appendix A. Reserve Margins and Distribution Loss Factor Gross Ups are Included.</b></p> <p><b>13. OPCAP Margin taking into account Real Time Demand Response through OP4 Step 2 (11 + 12 = 13).</b></p> <p><b>14. OP 4 Action 6 Emergency Generation Response without the Voltage Reduction requiring &gt; 10 Minutes based on OP4 Appendix A. Real Time Emergency Generation is capped at 600MW. Reserve Margins and Distribution Loss Factor Gross Ups are Included.</b></p> <p><b>15. OPCAP Margin taking into account Real Time Demand Response and Real Time Emergency Generation through OP4 Step 6 (13 + 14 = 15). This does not include Emergency Energy Transactions (EETs).</b></p>															

### New England Operable Capacity Margins 50/50 FORECAST



July 2012 - May 2013, W/B Saturday