

Summer 2012 Event Response

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NYSRC – Installed Capacity Subcommittee

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NYISO Krey Corporate Center

Topics

- ◆ **Summer 2012 Events**
- ◆ **Event Response Summary by Superzone**
 - *Mandatory Events*
 - *Voluntary Events*
- ◆ **Performance Factors**
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Summer 2012 Events

Event Date	Zones	Event Hours	Mandatory or Voluntary
May 29, 2012	A - K	HB 12* through HB17 (*partial hour)	Voluntary
June 20, 2012	C, and G - J	HB14 through HB17	Mandatory
June 21, 2012	A - K	Zone J: HB12 through HB17 All others: HB13 through HB 17	Mandatory, except HB12
June 22, 2012	G - K	HB13 through HB17	Mandatory
July 17, 2012	B	HB14 through HB17	Voluntary
	J3 (TDRP)	HB18 through HB22	Voluntary
July 18, 2012	G- K	HB13 through HB17	Voluntary Mandatory for Zone J
	J3 (TDRP)	HB18 through HB21	Voluntary

Summer 2012 Events

		Zone										
Event Date	Event Hours	A	B	C	D	E	F	G	H	I	J	K
May 29, 2012	HB 12 - HB 17 (HB12 partial hour)	V	V	V	V	V	V	V	V	V	V	V
June 20, 2012	HB 14 - HB 17			M				M	M	M	M	
June 21, 2012	HB 13 - HB 17	M	M	M	M	M	M	M	M	M	M	M
June 22, 2012	HB 13 - HB 17							M	M	M	M	M
July 17, 2012	HB 14 - HB 17		V									
July 18, 2012	HB13 - HB 17 (Zone J) HB 14 - HB 17							V	V	V	M	V

M = Mandatory Response V = Voluntary Response

Summer 2012 Event Hours by Zone

	Mandatory Event Hours			Voluntary Event Hours			Total Mandatory Hours	Total Voluntary Hours	Total Summer 2012 Event Hours
	May	June	July	May	June	July			
	A		5		6				
B		5		6		4	5	10	15
C		9		6			9	6	15
D		5		6			5	6	11
E		5		6			5	6	11
F		5		6			5	6	11
G		14		6		4	14	10	24
H		14		6		4	14	10	24
I		14		6		4	14	10	24
J		15	5	6			20	6	26
K		10		6		4	10	10	20

SCR Event Response Summary – ICAP Measures

SCR ICAP Response	HB 12*	HB 13	HB 14	HB 15	HB 16	HB 17		Average Hourly MW	Obligated SCR MW	Response as % of Obligated MW
May 29, 2012	193.3	576.7	461.3	476.5	475.8	733.2		486.1	1618.3	30.0%
June 20, 2012			453.0	471.4	480.6	507.7		478.2	600.6	79.6%
June 21, 2012	244.9	1271.3	1387.2	1314.7	989.3	1021.8		1176.3	1620.7	72.6%
June 22, 2012		482.7	546.9	602.8	633.8	658.9		585.0	600.0	97.5%
July 17, 2012			19.9	34.1	38.5	35.8		32.1	76.5	42.0%
July 18, 2012		271.5	349.8	400.3	462.8	514.7		413.0	602.6	68.5%

* On May 29, 2012, HB 12 was a partial hour of response; immediate deployment for SCRs was initiated at 12:16 p.m.

Events with Mandatory Response

Removal of voluntary response in HB12 on June 21, 2012 results in revised average mandatory event response of 368.1 MW for Zone J, 88.5% of Zone J Obligated ICAP MW, and increases overall event response to 73.8%

Superzone Response Summary: Mandatory Events

BEST 4 EVENT HOURS						
Mandatory Response Events						
	A-E	F-I	J	K	Total	
A	Obligated MW: All	925.5	181.9	416.0	97.4	1,620.7
	Avg Hourly Response based on ICAP					
B	Measures: All Obligated Resources	818.7	144.0	385.8	70.1	1,418.6
C	Average Hourly ACL Response/All Obligated (Row B/Row A)	88.5%	79.2%	92.8%	72.0%	87.5%
D	Obligated MW: SCRs Reporting CBL Data	908.4	175.3	368.4	83.8	1,535.8
	Avg Hourly Response based on ICAP					
E	Measures: SCRs Reporting CBL Data	815.2	139.9	353.6	62.1	1,370.8
F	ACL Response: SCRs Reporting CBL Data (Row E/Row D)	89.7%	79.8%	96.0%	74.1%	89.3%
G	CBL Based Response	651.7	116.3	202.4	43.0	1,013.3
	CBL Response as Percent of ICAP					
H	Response (Row G/Row E)	79.9%	83.1%	57.2%	69.2%	73.9%
	CBL Response as % of Obligated MW of					
I	SCRs Reporting CBL Data (RowG/Row D)	71.7%	66.3%	54.9%	51.3%	66.0%

94.8% of Obligated MW Reported CBL data

Superzone Response Summary: Voluntary Events*

BEST 4 EVENT HOURS						
Voluntary Response Events						
	A-E	F-I	J	K	Total	
A	Obligated MW: All	934.0	185.7	401.0	97.3	1,618.1
	Avg Hourly Response based on ICAP					
B	Measures: All Obligated Resources	345.6	64.6	124.4	22.0	556.7
C	Average Hourly ACL Response/All Obligated (Row B/Row A)	37.0%	34.8%	31.0%	22.6%	34.4%
D	Obligated MW: SCRs Reporting CBL Data	775.3	108.1	156.0	37.7	1,077.0
	Avg Hourly Response based on ICAP					
E	Measures: SCRs Reporting CBL Data	345.2	64.0	120.9	21.3	551.4
F	ACL Response: SCRs Reporting CBL Data (Row E/Row D)	44.5%	59.2%	77.5%	56.5%	51.2%
G	CBL Based Response	305.2	48.9	41.4	11.5	407.1
	CBL Response as Percent of ICAP					
H	Response (Row G/Row E)	88.4%	76.5%	34.2%	54.0%	73.8%
	CBL Response as % of Obligated MW of					
I	SCRs Reporting CBL Data (RowG/Row D)	39.4%	45.3%	26.5%	30.5%	37.8%

66.6% of Obligated* MW Reported CBL data

* **Obligated MW represent sold MW for Voluntary response events; SCRs are not obligated to respond.**

Summer 2012 Mandatory Event Response Metrics

Superzone	ACL: Best 4 hours	% Response: Best 4 hours using ICAP Measure	% Response: Best 4 hours using ICAP Measure	% Response: Best 4 hours using CBL Measure	% Response: All hours using CBL Measure
	Performance Factors based on SCR Program Rules	Summer events only All Obligated	Summer events only Reported CBL Data	Summer events only Reported CBL Data	Summer events only Reported CBL Data
	SCR Performance Factor for 2013	Summer 2012 Event Response: Mandatory Events			
A – E	85.4%	88.5%	89.7%	71.7%	63.7%
F – I	72.3%	79.2%	79.8%	66.3%	64.6%
J	71.4%	92.8%	96.0%	54.9%	59.0%
K	65.6%	72.0%	74.1%	51.3%	48.4%
Overall	76.5%	87.5%	89.3%	66.0%	61.8%

SCR Model Values for 2014 IRM Based on the Same Method as 2013 IRM

Superzone	SCR Enrollment (2013 Gold Book Forecast)	Summer 2013 ACL Performance Factors Best 4 hours	Translation Factor (ACL to CBL)	Effective Capacity Value	Fatigue Factor	Model Value
A – E	674.8	.8539	.95	.95	.95	494.0
F - I	213.5	.7225	.95	.95	.95	132.3
J	543.2	.7135	.95	.95	.95	332.3
K	126.9	.6560	.95	.95	.95	71.4
Total	1558.4					1030.0

APPENDIX

Zonal 2012 Event Response Data

Zonal SCR Response to 2012 Events: Best 4 Hours – Mandatory Events

BEST 4 EVENT HOURS													
Mandatory Response Events													
	A	B	C	D	E	F	G	H	I	J	K	Total	
A	Obligated MW: All	263.1	77.2	97.9	459.8	27.5	95.2	49.4	5.2	32.1	416.0	97.4	1,620.7
	Avg Hourly Response based on ICAP												
B	Measures: All Obligated Resources	236.1	58.4	83.2	422.9	18.1	82.2	37.6	5.0	19.1	385.8	70.1	1,418.6
	Average Hourly ACL Response/All												
C	Obligated (Row B/Row A)	89.7%	75.7%	84.9%	92.0%	65.8%	86.3%	76.1%	96.8%	59.7%	92.8%	72.0%	87.5%
D	Obligated MW: SCRs Reporting CBL Data	260.3	66.3	96.3	459.8	25.6	93.6	47.8	4.6	29.3	368.4	83.8	1,535.8
	Avg Hourly Response based on ICAP												
E	Measures: SCRs Reporting CBL Data	235.6	56.3	82.7	422.9	17.8	81.1	36.6	4.6	17.6	353.6	62.1	1,370.8
	ACL Response: SCRs Reporting CBL Data												
F	(Row E/Row D)	90.5%	84.8%	85.8%	92.0%	69.5%	86.6%	76.5%	101.6%	60.1%	96.0%	74.1%	89.3%
G	CBL Based Response	202.4	40.2	66.5	329.5	13.1	73.7	24.4	3.8	14.4	202.4	43.0	1,013.3
	CBL Response as Percent of ICAP												
H	Response (Row G/Row E)	85.9%	71.4%	80.5%	77.9%	73.5%	90.9%	66.8%	82.0%	81.5%	57.2%	69.2%	73.9%
	CBL Response as % of Obligated MW of												
I	SCRs Reporting CBL Data (RowG/Row D)	77.8%	60.5%	69.0%	71.7%	51.1%	78.8%	51.1%	83.2%	49.0%	54.9%	51.3%	66.0%

Zonal SCR Response to 2012 Events: Best 4 Hours – Voluntary Events

BEST 4 EVENT HOURS													
Voluntary Response Events													
	A	B	C	D	E	F	G	H	I	J	K	Total	
A	Obligated MW: All	270.9	76.9	99.1	459.8	27.4	96.7	49.6	5.5	33.9	401.0	97.3	1,618.1
	Avg Hourly Response based on ICAP												
B	Measures: All Obligated Resources	138.8	31.1	48.9	119.1	7.8	40.0	17.0	2.2	5.4	124.4	22.0	556.7
	Average Hourly ACL Response/All												
C	Obligated (Row B/Row A)	51.2%	40.4%	49.3%	25.9%	28.4%	41.4%	34.4%	39.6%	0.0%	0.0%	22.6%	34.4%
D	Obligated MW: SCRs Reporting CBL Data	189.1	55.4	61.5	457.2	12.1	63.7	26.9	3.0	14.4	156.0	37.7	1,077.0
	Avg Hourly Response based on ICAP												
E	Measures: SCRs Reporting CBL Data	138.6	30.7	48.9	119.1	7.8	40.1	16.3	2.2	5.4	120.9	21.3	551.4
	ACL Response: SCRs Reporting CBL Data												
F	(Row E/Row D)	73.3%	55.4%	79.6%	26.0%	64.8%	63.0%	60.7%	72.8%	37.1%	77.5%	56.5%	51.2%
G	CBL Based Response	118.2	18.8	30.8	131.3	6.2	28.7	12.1	2.2	6.0	41.4	11.5	407.1
	CBL Response as Percent of ICAP												
H	Response (Row G/Row E)	85.29%	61.12%	62.96%	110.22%	78.73%	71.37%	74.07%	100.83%	112.18%	34.21%	54.01%	73.82%
	CBL Response as % of Obligated MW of												
I	SCRs Reporting CBL Data (RowG/Row D)	62.5%	33.9%	50.1%	28.7%	51.0%	44.9%	44.9%	73.4%	41.6%	26.5%	30.5%	37.8%

*** Obligated MW represent sold MW for Voluntary response events; SCRs are not obligated to respond.**

Zonal SCR Response to 2012 Events: All Event Hours – Mandatory Events

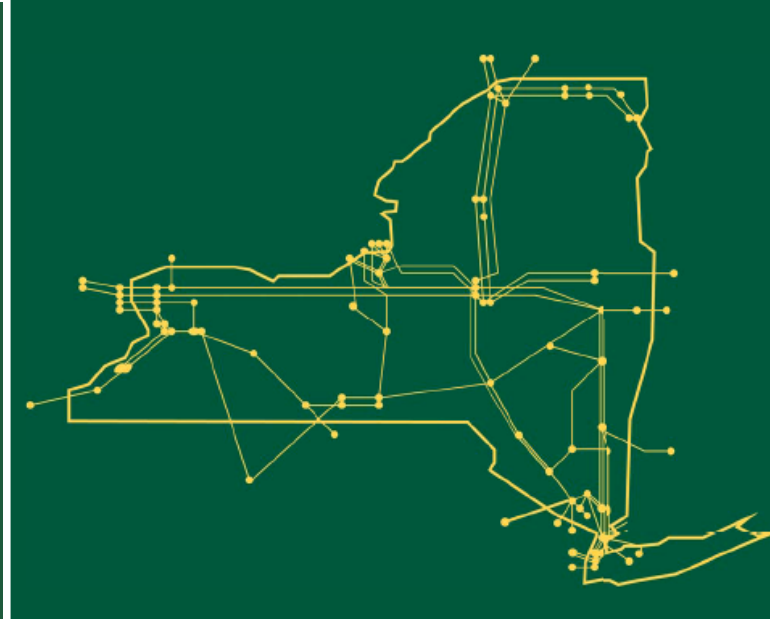
ALL EVENT HOURS													
Mandatory Response Events													
	A	B	C	D	E	F	G	H	I	J	K	Total	
A	Obligated MW: All	263.1	77.2	97.9	459.8	27.5	95.2	49.4	5.2	32.1	416.0	97.4	1,620.7
	Avg Hourly Response based on ICAP												
B	Measures: All Obligated Resources	227.7	56.6	81.3	253.8	16.5	78.5	36.7	5.0	18.5	369.4	66.5	1,210.5
	Average Hourly ACL Response/All												
C	Obligated (Row B/Row A)	86.6%	73.3%	83.0%	55.2%	60.1%	82.5%	74.2%	95.2%	57.8%	88.8%	68.3%	74.7%
D	Obligated MW: SCRs Reporting CBL Data	260.3	66.3	96.3	459.8	25.6	93.6	47.8	4.6	29.3	368.4	83.8	1,535.8
	Avg Hourly Response based on ICAP												
E	Measures: SCRs Reporting CBL Data	227.2	54.5	80.8	253.8	16.3	77.4	35.6	4.6	17.0	339.2	58.7	1,165.1
	ACL Response: SCRs Reporting CBL Data												
F	(Row E/Row D)	87.3%	82.1%	83.8%	55.2%	63.7%	82.8%	74.5%	100.3%	58.1%	92.1%	70.1%	75.9%
G	CBL Based Response	199.0	37.9	65.4	263.7	12.3	71.3	24.0	3.7	14.2	217.4	40.6	949.5
	CBL Response as Percent of ICAP												
H	Response (Row G/Row E)	87.6%	69.6%	81.0%	103.9%	75.2%	92.1%	67.3%	81.4%	83.4%	64.1%	69.1%	81.5%
	CBL Response as % of Obligated MW of												
I	SCRs Reporting CBL Data (RowG/Row D)	76.5%	57.1%	67.9%	57.3%	47.9%	76.2%	50.1%	81.6%	48.5%	59.0%	48.4%	61.8%

Zonal SCR Response to 2012 Events: All Event Hours – Voluntary Events

ALL EVENT HOURS													
Voluntary Response Events													
	A	B	C	D	E	F	G	H	I	J	K	Total	
A	Obligated MW: All	270.9	76.9	99.1	459.8	27.4	96.7	49.6	5.5	33.9	401.0	97.3	1,618.1
	Avg Hourly Response based on ICAP												
B	Measures: All Obligated Resources	123.7	30.0	44.5	113.4	6.3	37.3	15.9	2.2	5.3	109.1	21.5	509.1
	Average Hourly ACL Response/All												
C	Obligated (Row B/Row A)	45.7%	39.0%	44.9%	24.7%	22.9%	38.6%	32.1%	39.4%	15.7%	27.2%	22.0%	31.5%
D	Obligated MW: SCRs Reporting CBL Data	189.1	55.4	61.5	457.2	12.1	63.7	26.9	3.0	14.4	156.0	37.7	1,077.0
	Avg Hourly Response based on ICAP												
E	Measures: SCRs Reporting CBL Data	123.5	29.6	44.5	113.4	6.3	37.4	15.3	2.2	5.2	106.2	20.7	504.4
	ACL Response: SCRs Reporting CBL Data												
F	(Row E/Row D)	65.3%	53.5%	72.4%	24.8%	52.3%	58.7%	56.8%	72.4%	36.3%	68.1%	55.0%	46.8%
G	CBL Based Response	104.1	17.3	26.6	123.9	5.7	26.8	11.5	2.1	5.9	33.3	11.0	368.2
	CBL Response as Percent of ICAP												
H	Response (Row G/Row E)	84%	58%	60%	109%	90%	72%	75%	97%	113%	31%	53%	73%
	CBL Response as % of Obligated MW of												
I	SCRs Reporting CBL Data (RowG/Row D)	55.1%	31.2%	43.4%	27.1%	47.1%	42.0%	42.8%	70.6%	41.0%	21.3%	29.2%	34.2%

*** Obligated MW represent sold MW for Voluntary response events; SCRs are not obligated to respond.**

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