

Analysis of Replacement Capacity for RPM Commitments

MIC

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Monitoring Analytics

Replacement capacity

- **Review December 11, 2012 IMM report**
- **Replacement capacity for RPM commitments by type of capacity**
- **DR capacity**
 - **Role of ILR**
 - **Role of FERC M&V order**
- **Trends in replacement activity**
- **Issues**
- **Conclusions and recommendations**
- **Next steps**



Figure 1 Timeline of relevant RPM deadlines and changes

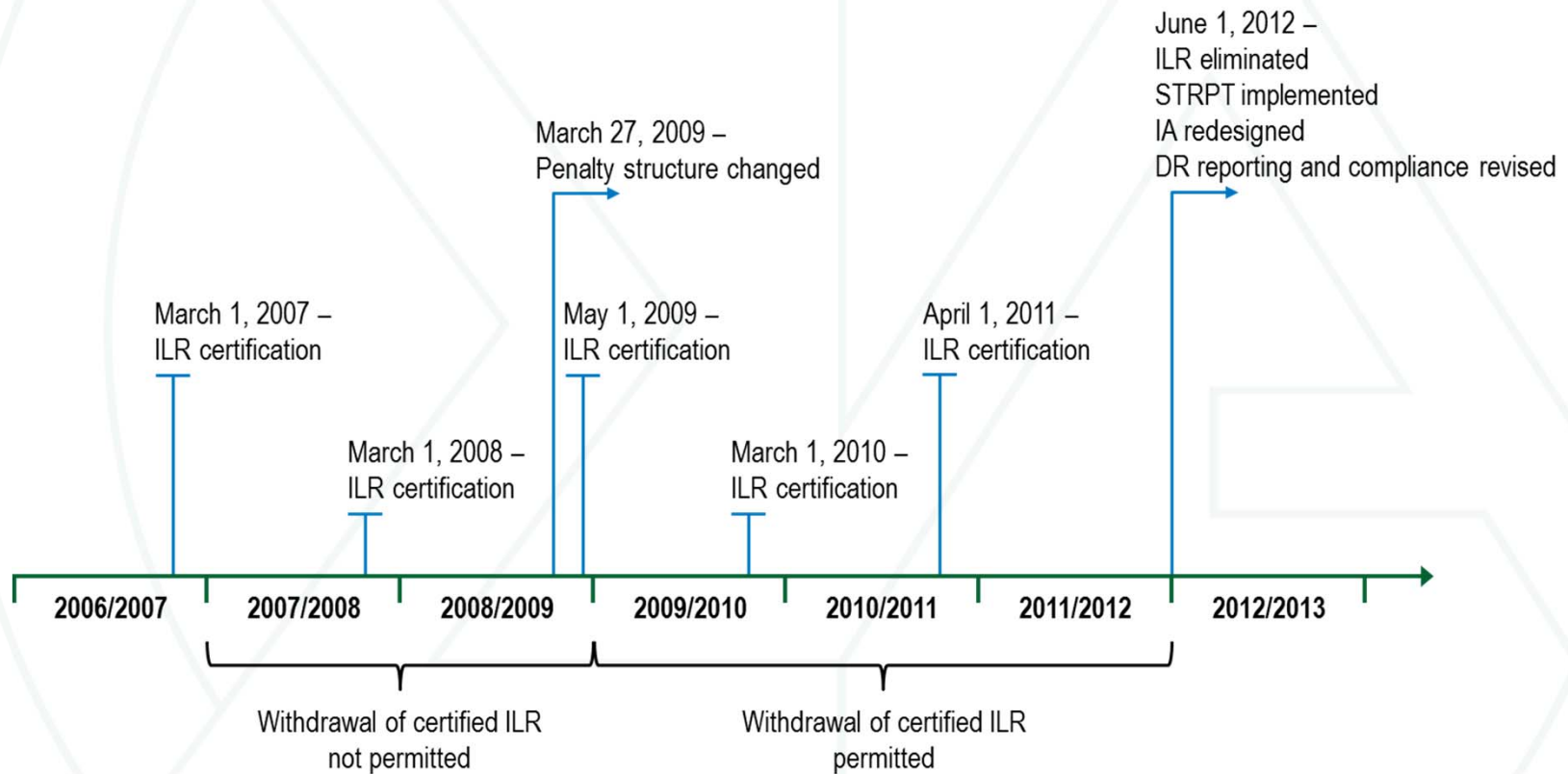


Table 1 RPM Commitments for Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)				
	RPM Cleared	Net Replacements	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage
01-Jun-07	129,281.6	0.0	129,281.6	(8.1)	129,273.5
01-Jun-08	130,070.4	(726.5)	129,343.9	(187.9)	129,156.0
01-Jun-09	133,137.3	(1,593.5)	131,543.8	(0.4)	131,543.4
01-Jun-10	133,073.3	(3,662.7)	129,410.6	(1.1)	129,409.5
01-Jun-11	132,279.6	(5,775.4)	126,504.2	(79.3)	126,424.9
01-Jun-12	131,876.9	(7,112.1)	124,764.8	(117.2)	124,647.6
01-Jun-13	148,160.7	(9,041.5)	139,119.2	(21.4)	139,097.8



Table 2 RPM commitments for internal Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)				
	RPM Cleared	Net Replacements	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage
01-Jun-07	127,660.8	0.0	127,660.8	(8.1)	127,652.7
01-Jun-08	128,444.0	(715.7)	127,728.3	(187.9)	127,540.4
01-Jun-09	131,415.2	(1,827.8)	129,587.4	(0.4)	129,587.0
01-Jun-10	130,952.3	(3,445.7)	127,506.6	(1.1)	127,505.5
01-Jun-11	130,457.6	(5,761.0)	124,696.6	(79.3)	124,617.3
01-Jun-12	130,360.4	(6,988.8)	123,371.6	(60.8)	123,310.8
01-Jun-13	145,732.2	(8,562.3)	137,169.9	(21.4)	137,148.5



Table 3 RPM commitments for internal Generation Resources in service: June 1, 2007 to June 1, 2013

	UCAP (MW)				
	RPM Cleared	Net Replacements	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage
01-Jun-07	127,614.0	0.0	127,614.0	(8.1)	127,605.9
01-Jun-08	128,334.1	(707.2)	127,626.9	(182.8)	127,444.1
01-Jun-09	130,930.7	(2,030.3)	128,900.4	(0.4)	128,900.0
01-Jun-10	130,251.4	(3,403.1)	126,848.3	(1.1)	126,847.2
01-Jun-11	127,784.0	(4,983.1)	122,800.9	(2.2)	122,798.7
01-Jun-12	127,362.4	(7,057.2)	120,305.2	(13.2)	120,292.0
01-Jun-13	141,717.7	(8,086.4)	133,631.3	(21.4)	133,609.9

Table 4 RPM commitments for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

	UCAP (MW)				
	RPM Cleared	Net Replacements	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage
01-Jun-07	46.8	0.0	46.8	0.0	46.8
01-Jun-08	109.9	(8.5)	101.4	(5.1)	96.3
01-Jun-09	484.5	202.5	687.0	0.0	687.0
01-Jun-10	700.9	(42.6)	658.3	0.0	658.3
01-Jun-11	2,673.6	(777.9)	1,895.7	(77.1)	1,818.6
01-Jun-12	2,998.0	68.4	3,066.4	(47.6)	3,018.8
01-Jun-13	4,014.5	(475.9)	3,538.6	0.0	3,538.6

Table 5 RPM commitments for external Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)					
	RPM Cleared	Net Replacements	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage	
01-Jun-07	1,620.8	0.0	1,620.8	0.0		1,620.8
01-Jun-08	1,626.4	(10.8)	1,615.6	0.0		1,615.6
01-Jun-09	1,722.1	234.3	1,956.4	0.0		1,956.4
01-Jun-10	2,121.0	(217.0)	1,904.0	0.0		1,904.0
01-Jun-11	1,822.0	(14.4)	1,807.6	0.0		1,807.6
01-Jun-12	1,516.5	(123.3)	1,393.2	(56.4)		1,336.8
01-Jun-13	2,428.5	(479.2)	1,949.3	0.0		1,949.3



Table 6 RPM commitments and registrations for Demand Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)						Registered DR		
	RPM Cleared	Net Replacements	Relief from Charges	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage	ICAP (MW)	UCAP Conversion Factor	UCAP (MW)
01-Jun-07	127.6	0.0	0.0	127.6	0.0	127.6		1.03260	
01-Jun-08	559.4	(40.0)	0.0	519.4	(58.4)	461.0	488.0	1.03426	504.7
01-Jun-09	892.9	(474.7)	0.0	418.2	(14.3)	403.9	570.3	1.03308	589.2
01-Jun-10	962.9	(516.3)	0.0	446.6	(7.7)	438.9	572.8	1.03455	592.6
01-Jun-11	1,826.6	(1,052.4)	0.0	774.2	0.0	774.2	1,117.9	1.03455	1,156.5
01-Jun-12	8,752.6	(2,253.6)	(11.7)	6,487.3	(34.9)	6,452.4	7,443.7	1.03690	7,718.4
01-Jun-13	10,779.6	(3,314.4)	0.0	7,465.2	(30.5)	7,434.7	8,240.1	1.04208	8,586.8



**Table 7 RPM commitments for Energy Efficiency Resources:
June 1, 2007 to June 1, 2013**

	UCAP (MW)				
	RPM Cleared	Net Replacements	RPM Commitments	RPM Commitment Shortage	RPM Commitments Less Commitment Shortage
01-Jun-07	0.0	0.0	0.0	0.0	0.0
01-Jun-08	0.0	0.0	0.0	0.0	0.0
01-Jun-09	0.0	0.0	0.0	0.0	0.0
01-Jun-10	0.0	0.0	0.0	0.0	0.0
01-Jun-11	76.4	0.2	76.6	0.0	76.6
01-Jun-12	666.1	(34.9)	631.2	(5.1)	626.1
01-Jun-13	904.2	120.6	1,024.8	(13.5)	1,011.3

Table 8 Net replacements to cleared capacity by resource classifications: June 1, 2007 to June 1, 2013

	Internal Generation	Internal Generation	Internal Generation in Service	Internal Generation Not in Service	External Generation	Demand Resources	Energy Efficiency Resources
01-Jun-07	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
01-Jun-08	(0.6%)	(0.6%)	(0.6%)	(7.7%)	(0.7%)	(7.2%)	
01-Jun-09	(1.2%)	(1.4%)	(1.6%)	41.8%	13.6%	(53.2%)	
01-Jun-10	(2.8%)	(2.6%)	(2.6%)	(6.1%)	(10.2%)	(53.6%)	
01-Jun-11	(4.4%)	(4.4%)	(3.9%)	(29.1%)	(0.8%)	(57.6%)	0.3%
01-Jun-12	(5.4%)	(5.4%)	(5.5%)	2.3%	(8.1%)	(25.7%)	(5.2%)
01-Jun-13	(6.1%)	(5.9%)	(5.7%)	(11.9%)	(19.7%)	(30.7%)	13.3%



Table 9 Total replacements to cleared capacity by resource classification: June 1, 2007 to June 1, 2013

	Internal Generation	Internal Generation	Internal Generation in Service	Internal Generation Not in Service	External Generation	Demand Resources	Energy Efficiency Resources
01-Jun-07	(0.1%)	(0.1%)	(0.1%)	0.0%	0.0%	0.0%	
01-Jun-08	(2.0%)	(2.0%)	(2.0%)	(7.7%)	(1.3%)	(9.8%)	
01-Jun-09	(3.7%)	(3.6%)	(3.5%)	(4.8%)	(12.5%)	(56.6%)	
01-Jun-10	(5.0%)	(4.8%)	(4.8%)	(6.2%)	(12.1%)	(55.6%)	
01-Jun-11	(7.4%)	(7.3%)	(6.8%)	(29.5%)	(13.1%)	(63.7%)	(1.0%)
01-Jun-12	(10.4%)	(10.3%)	(10.4%)	(3.4%)	(19.2%)	(44.2%)	(25.2%)
01-Jun-13	(8.8%)	(8.6%)	(8.5%)	(12.5%)	(21.4%)	(71.8%)	(70.4%)



Table 10 Certified ILR: June 1, 2007 to June 1, 2011

	ICAP (MW)	UCAP Conversion Factor	UCAP (MW)	Revenue (\$ per day)	Weighted Average Price (\$ per MW-day)
01-Jun-07	1,584.6	1.03260	1,636.3	\$146,838	\$89.74
01-Jun-08	3,488.5	1.03426	3,608.1	\$438,571	\$121.55
01-Jun-09	6,273.8	1.03308	6,481.5	\$943,263	\$145.53
01-Jun-10	7,961.3	1.03455	8,236.4	\$1,436,196	\$174.37
01-Jun-11	8,730.7	1.03455	9,032.6	\$993,946	\$110.04



Table 11 Potential DR to ILR swapping: June 1, 2007 to June 1, 2011

Revenue (\$ per Day)							
	UCAP (MW)	RPM Cleared	RPM Replacements	ILR	Net RPM and ILR	Effective Price (\$ per MW-day)	RPM Weighted Average Price (\$ per MW-day)
01-Jun-07	0.0	\$0	\$0	\$0	\$0	NA	NA
01-Jun-08	36.7	\$5,461	(\$367)	\$5,267	\$10,361	\$282.31	\$148.80
01-Jun-09	359.7	\$72,327	(\$30,575)	\$69,849	\$111,601	\$310.26	\$201.08
01-Jun-10	491.2	\$82,904	(\$24,560)	\$85,704	\$144,048	\$293.26	\$168.78
01-Jun-11	870.0	\$55,548	(\$13,265)	\$95,735	\$138,018	\$158.64	\$63.85



Table 12 Sources of replacement capacity for all Capacity Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)												
	Replacement Transactions				Locational UCAP Transactions								
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE	Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacement Resources	Commitment Reductions using Other Sources	Commitment Additions on Replacement Resources	Net Replacements
01-Jun-07	0.0	118.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.5	0.0	118.5	0.0
01-Jun-08	766.5	1,819.4	15.0	0.0	0.0	0.0	0.0	0.0	0.0	1,834.4	766.5	1,834.4	766.5
01-Jun-09	1,708.6	3,253.1	31.1	0.0	35.8	0.0	0.0	0.0	359.7	3,320.0	2,068.3	3,320.1	2,068.2
01-Jun-10	1,816.4	2,595.5	19.4	0.0	335.7	0.0	0.0	959.9	1,403.5	2,950.6	4,179.8	2,951.4	4,179.0
01-Jun-11	1,805.2	3,467.1	98.3	1.0	538.1	12.7	0.0	2,735.2	2,287.2	4,117.2	6,827.6	4,117.2	6,827.6
01-Jun-12	9,185.9	4,650.0	1,597.5	133.0	1,937.6	13.2	0.0	213.4	0.0	8,331.3	9,399.3	8,330.0	9,400.6
01-Jun-13	12,021.2	3,214.3	4,403.9	708.4	798.6	26.3	48.9	214.2	0.0	9,200.4	12,235.4	9,200.5	12,235.3

Table 13 Sources of replacement capacity for Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)												
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources	Net Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	118.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.5	118.5	0.0	
01-Jun-08	726.5	1,819.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,545.9	1,819.4	726.5	
01-Jun-09	1,322.6	3,201.4	0.0	0.0	0.0	0.0	0.0	0.0	358.5	4,882.5	3,289.0	1,593.5	
01-Jun-10	1,384.8	2,595.5	0.0	0.0	285.7	0.0	0.0	955.8	1,372.9	6,594.7	2,932.0	3,662.7	
01-Jun-11	1,192.6	3,437.1	0.0	0.0	538.1	0.0	0.0	2,601.9	2,010.9	9,780.6	4,005.2	5,775.4	
01-Jun-12	6,976.2	4,647.6	52.6	0.0	1,862.6	0.0	0.0	159.4	0.0	13,698.4	6,586.3	7,112.1	
01-Jun-13	8,772.2	3,212.2	167.2	0.0	718.6	0.0	0.0	184.2	0.0	13,054.4	4,012.9	9,041.5	

Table 14 Sources of replacement capacity for internal Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)												
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources	Net Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	118.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.5	118.5	0.0	
01-Jun-08	726.5	1,797.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,524.1	1,808.4	715.7	
01-Jun-09	1,319.8	3,077.4	0.0	0.0	0.0	0.0	0.0	0.0	270.1	4,667.3	2,839.5	1,827.8	
01-Jun-10	1,380.0	2,497.6	0.0	0.0	285.7	0.0	0.0	848.2	1,325.9	6,337.4	2,891.7	3,445.7	
01-Jun-11	1,192.1	3,436.4	0.0	0.0	538.1	0.0	0.0	2,433.4	1,942.4	9,542.4	3,781.4	5,761.0	
01-Jun-12	6,758.7	4,609.3	52.6	0.0	1,827.6	0.0	0.0	159.4	0.0	13,407.6	6,418.8	6,988.8	
01-Jun-13	8,294.8	3,173.7	162.3	0.0	718.6	0.0	0.0	184.2	0.0	12,533.6	3,971.3	8,562.3	



Table 15 Source of replacement capacity for internal Generation Resource in service: June 1, 2007 to June 1, 2013

	UCAP (MW)												
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources	Net Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	118.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.5	118.5	0.0	
01-Jun-08	718.1	1,797.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,515.6	1,808.4	707.2	
01-Jun-09	1,312.9	3,065.5	0.0	0.0	0.0	0.0	0.0	0.0	265.6	4,644.0	2,613.7	2,030.3	
01-Jun-10	1,356.6	2,477.9	0.0	0.0	285.7	0.0	0.0	848.2	1,325.8	6,294.2	2,891.1	3,403.1	
01-Jun-11	1,180.6	3,409.5	0.0	0.0	238.1	0.0	0.0	2,023.1	1,901.5	8,752.8	3,769.7	4,983.1	
01-Jun-12	6,709.5	4,557.1	52.6	0.0	1,827.6	0.0	0.0	159.4	0.0	13,306.2	6,249.0	7,057.2	
01-Jun-13	7,828.2	3,140.0	162.3	0.0	718.6	0.0	0.0	184.2	0.0	12,033.3	3,946.9	8,086.4	

Table 16 Sources of replacement capacity for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

	UCAP (MW)												Net Replacements
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources	
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-08	8.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	8.5
01-Jun-09	6.9	11.9	0.0	0.0	0.0	0.0	0.0	0.0	4.5	23.3	225.8		(202.5)
01-Jun-10	23.4	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	43.2	0.6		42.6
01-Jun-11	11.5	26.9	0.0	0.0	300.0	0.0	0.0	410.3	40.9	789.6	11.7		777.9
01-Jun-12	49.2	52.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	101.4	169.8		(68.4)
01-Jun-13	466.6	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.3	24.4		475.9

Table 17 Sources of replacement capacity for external Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)												
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources	Net Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-08	0.0	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	11.0	10.8	
01-Jun-09	2.8	124.0	0.0	0.0	0.0	0.0	0.0	0.0	88.4	215.2	449.5	(234.3)	
01-Jun-10	4.8	97.9	0.0	0.0	0.0	0.0	0.0	107.6	47.0	257.3	40.3	217.0	
01-Jun-11	0.5	0.7	0.0	0.0	0.0	0.0	0.0	168.5	68.5	238.2	223.8	14.4	
01-Jun-12	217.5	38.3	0.0	0.0	35.0	0.0	0.0	0.0	0.0	290.8	167.5	123.3	
01-Jun-13	477.4	38.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	520.8	41.6	479.2	

Table 18 Sources of replacement capacity for Demand Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)											
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources
Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-08	40.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	15.0	40.0
01-Jun-09	386.0	51.7	31.1	0.0	35.8	0.0	0.0	0.0	1.2	505.8	31.1	474.7
01-Jun-10	431.6	0.0	19.4	0.0	50.0	0.0	0.0	4.1	30.6	535.7	19.4	516.3
01-Jun-11	612.6	30.0	98.3	0.2	0.0	12.7	0.0	133.3	276.3	1,163.4	111.0	1,052.4
01-Jun-12	2,169.6	2.4	1,544.7	12.7	67.7	13.2	0.0	54.0	0.0	3,864.3	1,610.7	2,253.6
01-Jun-13	3,212.3	2.1	4,208.6	144.6	80.0	25.1	46.3	25.6	0.0	7,744.6	4,430.2	3,314.4

Table 19 Sources of replacement capacity for Energy Efficiency Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)												
	Replacement Transactions				Locational UCAP Transactions				Excess Commitment Credits	Excess ILR MW Credits	Commitment Reductions using Replacements	Commitment Additions on Replacement Resources	Net Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE						
01-Jun-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-11	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	1.0	(0.2)	
01-Jun-12	40.1	0.0	0.2	120.3	7.3	0.0	0.0	0.0	0.0	167.9	133.0	34.9	
01-Jun-13	36.7	0.0	28.1	563.8	0.0	1.2	2.6	4.4	0.0	636.8	757.4	(120.6)	



Table 20 Sources of replacement capacity to total replacements for Generation Resources: June 1, 2007 to June 1, 2013

	Replacement Transactions				Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE				
01-Jun-07	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-08	28.5%	71.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-09	27.1%	65.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%	100.0%	Replacement Transactions - Gen
01-Jun-10	21.0%	39.4%	0.0%	0.0%	4.3%	0.0%	0.0%	14.5%	20.8%	100.0%	Replacement Transactions - Gen
01-Jun-11	12.2%	35.1%	0.0%	0.0%	5.5%	0.0%	0.0%	26.6%	20.6%	100.0%	Replacement Transactions - Gen
01-Jun-12	50.9%	33.9%	0.4%	0.0%	13.6%	0.0%	0.0%	1.2%	0.0%	100.0%	Cleared Buy Bids
01-Jun-13	67.2%	24.6%	1.3%	0.0%	5.5%	0.0%	0.0%	1.4%	0.0%	100.0%	Cleared Buy Bids

Table 21 Sources of replacement capacity to total replacements for internal Generation Resources: June 1, 2007 to June 1, 2013

	Replacement Transactions				Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE				
01-Jun-07	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-08	28.8%	71.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-09	28.3%	65.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	100.0%	Replacement Transactions - Gen
01-Jun-10	21.8%	39.4%	0.0%	0.0%	4.5%	0.0%	0.0%	13.4%	20.9%	100.0%	Replacement Transactions - Gen
01-Jun-11	12.5%	36.0%	0.0%	0.0%	5.6%	0.0%	0.0%	25.5%	20.4%	100.0%	Replacement Transactions - Gen
01-Jun-12	50.4%	34.4%	0.4%	0.0%	13.6%	0.0%	0.0%	1.2%	0.0%	100.0%	Cleared Buy Bids
01-Jun-13	66.2%	25.3%	1.3%	0.0%	5.7%	0.0%	0.0%	1.5%	0.0%	100.0%	Cleared Buy Bids



Table 22 Sources of replacement capacity to total replacements for internal Generation Resources in service: June 1, 2007 to June 1, 2013

	Replacement Transactions				Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE				
01-Jun-07	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-08	28.5%	71.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-09	28.3%	66.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.7%	100.0%	Replacement Transactions - Gen
01-Jun-10	21.6%	39.4%	0.0%	0.0%	4.5%	0.0%	0.0%	13.5%	21.1%	100.0%	Replacement Transactions - Gen
01-Jun-11	13.5%	39.0%	0.0%	0.0%	2.7%	0.0%	0.0%	23.1%	21.7%	100.0%	Replacement Transactions - Gen
01-Jun-12	50.4%	34.2%	0.4%	0.0%	13.7%	0.0%	0.0%	1.2%	0.0%	100.0%	Cleared Buy Bids
01-Jun-13	65.1%	26.1%	1.3%	0.0%	6.0%	0.0%	0.0%	1.5%	0.0%	100.0%	Cleared Buy Bids



Table 23 Sources of replacement capacity to total replacements for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

	Replacement Transactions				Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE				
01-Jun-07											
01-Jun-08	98.8%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Cleared Buy Bids
01-Jun-09	29.6%	51.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.3%	100.0%	Replacement Transactions - Gen
01-Jun-10	54.2%	45.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	100.0%	Cleared Buy Bids
01-Jun-11	1.5%	3.4%	0.0%	0.0%	38.0%	0.0%	0.0%	52.0%	5.2%	100.0%	Excess Commitment Credits
01-Jun-12	48.5%	51.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-13	93.3%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Cleared Buy Bids



Table 24 Sources of replacement capacity to total replacements for external Generation Resources: June 1, 2007 to June 1, 2013

	Replacement Transactions				Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE				
01-Jun-07											
01-Jun-08	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - Gen
01-Jun-09	1.3%	57.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.1%	100.0%	Replacement Transactions - Gen
01-Jun-10	1.9%	38.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.8%	18.3%	100.0%	Excess Commitment Credits
01-Jun-11	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	70.7%	28.8%	100.0%	Excess Commitment Credits
01-Jun-12	74.8%	13.2%	0.0%	0.0%	12.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Cleared Buy Bids
01-Jun-13	91.7%	7.4%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Cleared Buy Bids



Table 25 Sources of replacement capacity to total replacements for Demand Resources: June 1, 2007 to June 1, 2013

	Replacement Transactions				Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements
	Cleared Buy Bids	Gen	DR	EE	Gen	DR	EE				
01-Jun-07											
01-Jun-08	72.7%	0.0%	27.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Cleared Buy Bids
01-Jun-09	76.3%	10.2%	6.1%	0.0%	7.1%	0.0%	0.0%	0.0%	0.2%	100.0%	Cleared Buy Bids
01-Jun-10	80.6%	0.0%	3.6%	0.0%	9.3%	0.0%	0.0%	0.8%	5.7%	100.0%	Cleared Buy Bids
01-Jun-11	52.7%	2.6%	8.4%	0.0%	0.0%	1.1%	0.0%	11.5%	23.7%	100.0%	Cleared Buy Bids
01-Jun-12	56.1%	0.1%	40.0%	0.3%	1.8%	0.3%	0.0%	1.4%	0.0%	100.0%	Cleared Buy Bids
01-Jun-13	41.5%	0.0%	54.3%	1.9%	1.0%	0.3%	0.6%	0.3%	0.0%	100.0%	Replacement Transactions - DR



Table 26 Sources of replacement capacity to total replacements for Energy Efficiency Resources: June 1, 2007 to June 1, 2013

	Replacement Transactions			UCAP (MW) Locational UCAP Transactions			Excess Commitment Credits	Excess ILR MW Credits	Total Replacements	Major Source of Replacements	
	Cleared Buy Bids	Gen	DR	EE	Gen	DR					EE
01-Jun-07											
01-Jun-08											
01-Jun-09											
01-Jun-10											
01-Jun-11	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - EE
01-Jun-12	23.9%	0.0%	0.1%	71.6%	4.3%	0.0%	0.0%	0.0%	0.0%	100.0%	Replacement Transactions - EE
01-Jun-13	5.8%	0.0%	4.4%	88.5%	0.0%	0.2%	0.4%	0.7%	0.0%	100.0%	Replacement Transactions - EE



Table 27 RPM revenue for Generation Resources: June 1, 2007 to June 1, 2013

	Revenue (\$ per Day)			Capacity Resource Deficiency Charge	RPM Commitments Less Commitment Shortage
	RPM Cleared	Net Replacements	RPM Commitments		
01-Jun-07	\$11,603,143	\$0	\$11,603,143	(\$3,202)	\$11,599,941
01-Jun-08	\$16,580,270	(\$11,670)	\$16,568,599	(\$73,791)	\$16,494,808
01-Jun-09	\$20,376,592	(\$109,372)	\$20,267,220	(\$92)	\$20,267,128
01-Jun-10	\$22,984,703	(\$183,135)	\$22,801,568	(\$230)	\$22,801,338
01-Jun-11	\$14,423,911	(\$35,274)	\$14,388,637	(\$2,293)	\$14,386,344
01-Jun-12	\$9,851,831	(\$77,479)	\$9,774,351	(\$4,237)	\$9,770,114
01-Jun-13	\$17,039,629	(\$184,838)	\$16,854,792	(\$5,384)	\$16,849,408



**Table 28 RPM revenue for internal Generation Resources:
June 1, 2007 to June 1, 2013**

	Revenue (\$ per Day)				
	RPM Cleared	Net Replacements	RPM Commitments	Capacity Resource Deficiency Charge	RPM Commitments Less Commitment Shortage
01-Jun-07	\$11,534,520	\$0	\$11,534,520	(\$3,202)	\$11,531,318
01-Jun-08	\$16,397,655	(\$11,562)	\$16,386,093	(\$73,791)	\$16,312,301
01-Jun-09	\$20,196,185	(\$118,744)	\$20,077,441	(\$92)	\$20,077,349
01-Jun-10	\$22,664,116	(\$172,285)	\$22,491,831	(\$230)	\$22,491,601
01-Jun-11	\$14,229,190	(\$35,202)	\$14,193,987	(\$2,293)	\$14,191,694
01-Jun-12	\$9,829,086	(\$76,532)	\$9,752,553	(\$2,181)	\$9,750,372
01-Jun-13	\$16,977,778	(\$178,257)	\$16,799,521	(\$5,384)	\$16,794,137



Table 29 RPM revenue for internal Generation Resources in service: June 1, 2007 to June 1, 2013

	Revenue (\$ per Day)				
	RPM Cleared	Net Replacements	RPM Commitments	Capacity Resource Deficiency Charge	RPM Commitments Less Commitment Shortage
01-Jun-07	\$11,531,795	\$0	\$11,531,795	(\$3,202)	\$11,528,593
01-Jun-08	\$16,385,365	(\$11,477)	\$16,373,888	(\$72,650)	\$16,301,238
01-Jun-09	\$20,133,201	(\$125,892)	\$20,007,309	(\$92)	\$20,007,217
01-Jun-10	\$22,548,233	(\$170,155)	\$22,378,078	(\$230)	\$22,377,848
01-Jun-11	\$13,956,624	(\$31,303)	\$13,925,321	(\$290)	\$13,925,031
01-Jun-12	\$9,655,114	(\$75,502)	\$9,579,612	(\$1,109)	\$9,578,503
01-Jun-13	\$16,608,499	(\$162,974)	\$16,445,526	(\$5,384)	\$16,440,142



Table 30 RPM revenue for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

	Revenue (\$ per Day)				
	RPM Cleared	Net Replacements	RPM Commitments	Capacity Resource Deficiency Charge	RPM Commitments Less Commitment Shortage
01-Jun-07	\$2,725	\$0	\$2,725	\$0	\$2,725
01-Jun-08	\$12,290	(\$85)	\$12,205	(\$1,142)	\$11,063
01-Jun-09	\$62,983	\$7,148	\$70,131	\$0	\$70,131
01-Jun-10	\$115,883	(\$2,130)	\$113,753	\$0	\$113,753
01-Jun-11	\$272,566	(\$3,900)	\$268,666	(\$2,002)	\$266,664
01-Jun-12	\$173,971	(\$1,030)	\$172,941	(\$1,071)	\$171,870
01-Jun-13	\$369,278	(\$15,283)	\$353,995	\$0	\$353,995



**Table 31 RPM revenue for external Generation Resources:
June 1, 2007 to June 1, 2013**

	Revenue (\$ per Day)				
	RPM Cleared	Net Replacements	RPM Commitments	Capacity Resource Deficiency Charge	RPM Commitments Less Commitment Shortage
01-Jun-07	\$68,623	\$0	\$68,623	\$0	\$68,623
01-Jun-08	\$182,615	(\$108)	\$182,507	\$0	\$182,507
01-Jun-09	\$180,408	\$9,372	\$189,780	\$0	\$189,780
01-Jun-10	\$320,587	(\$10,850)	\$309,737	\$0	\$309,737
01-Jun-11	\$194,722	(\$72)	\$194,650	\$0	\$194,650
01-Jun-12	\$22,745	(\$947)	\$21,798	(\$2,056)	\$19,742
01-Jun-13	\$61,852	(\$6,581)	\$55,271	\$0	\$55,271



Table 32 RPM revenue for Demand Resources: June 1, 2007 to June 1, 2013

	Revenue (\$ per Day)					RPM Commitments
	RPM Cleared	Net Replacements	Relief from Charges	RPM Commitments	Capacity Resource Deficiency Charge	Less Commitment Shortage
01-Jun-07	\$15,129	\$0	\$0	\$15,129	\$0	\$15,129
01-Jun-08	\$96,847	(\$400)	\$0	\$96,447	(\$21,267)	\$75,180
01-Jun-09	\$180,170	(\$40,465)	\$0	\$139,704	(\$3,478)	\$136,226
01-Jun-10	\$165,030	(\$25,815)	\$0	\$139,215	(\$1,513)	\$137,702
01-Jun-11	\$152,448	(\$16,267)	\$0	\$136,181	\$0	\$136,181
01-Jun-12	\$724,543	(\$19,067)	(\$193)	\$705,283	(\$5,478)	\$699,806
01-Jun-13	\$1,530,726	(\$229,965)	\$0	\$1,300,761	(\$3,569)	\$1,297,192

Table 33 RPM revenue for Energy Efficiency Resources: June 1, 2007 to June 1, 2013

	Revenue (\$ per Day)				
	RPM Cleared	Net Replacements	RPM Commitments	Capacity Resource Deficiency Charge	RPM Commitments Less Commitment Shortage
01-Jun-07	\$0	\$0	\$0	\$0	\$0
01-Jun-08	\$0	\$0	\$0	\$0	\$0
01-Jun-09	\$0	\$0	\$0	\$0	\$0
01-Jun-10	\$0	\$0	\$0	\$0	\$0
01-Jun-11	\$382	\$1	\$383	\$0	\$383
01-Jun-12	\$31,256	(\$1,221)	\$30,036	(\$207)	\$29,829
01-Jun-13	\$59,173	\$4,346	\$63,519	(\$1,277)	\$62,242

Table 34 Number of parent companies by replacement percentage for Generation Resources: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07	54	0	0	0	0	0
01-Jun-08	27	32	1	0	0	0
01-Jun-09	34	33	1	0	0	0
01-Jun-10	37	26	5	1	0	3
01-Jun-11	37	35	3	0	2	3
01-Jun-12	51	34	3	2	1	4
01-Jun-13	61	41	3	2	0	2

Table 35 Number of parent companies by replacement percentage for internal Generation Resources: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07	51	0	0	0	0	0
01-Jun-08	22	32	1	0	0	0
01-Jun-09	29	31	1	0	0	0
01-Jun-10	31	26	5	1	0	3
01-Jun-11	30	36	3	0	2	3
01-Jun-12	44	32	3	1	1	3
01-Jun-13	54	38	3	2	0	1

Table 36 Number of parent companies by replacement percentage for internal Generation Resources in service: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07	51	0	0	0	0	0
01-Jun-08	22	32	1	0	0	0
01-Jun-09	29	31	1	0	0	0
01-Jun-10	31	26	5	1	0	2
01-Jun-11	31	35	2	0	2	2
01-Jun-12	40	30	2	2	1	3
01-Jun-13	50	38	2	2	0	1



Table 37 Number of parent companies by replacement percentage for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07	2	0	0	0	0	0
01-Jun-08	2	2	0	0	0	1
01-Jun-09	4	3	0	1	0	0
01-Jun-10	2	5	1	1	0	1
01-Jun-11	3	6	3	0	0	3
01-Jun-12	15	5	2	0	0	1
01-Jun-13	17	3	3	0	0	2

Table 38 Number of parent companies by replacement percentage for external Generation Resources: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07	14	0	0	0	0	0
01-Jun-08	12	4	0	0	0	0
01-Jun-09	15	3	0	0	0	0
01-Jun-10	15	2	0	0	0	0
01-Jun-11	16	1	0	0	0	0
01-Jun-12	17	3	0	1	0	1
01-Jun-13	18	6	0	0	1	1

Table 39 Number of parent companies by replacement percentage for Demand Resources: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07	4	0	0	0	0	0
01-Jun-08	4	1	0	0	0	0
01-Jun-09	4	1	0	1	1	0
01-Jun-10	4	1	0	0	0	2
01-Jun-11	14	0	3	1	0	2
01-Jun-12	26	9	6	0	4	2
01-Jun-13	21	9	8	3	5	8

Table 40 Number of parent companies by replacement percentage for Energy Efficiency Resources: June 1, 2007 to June 1, 2013

	Number of Companies					
	0 Percent	> 0 Percent and ≤ 25 Percent	> 25 Percent and ≤ 50 Percent	> 50 Percent and ≤ 75 Percent	> 75 Percent and < 100 Percent	100 Percent
01-Jun-07						
01-Jun-08						
01-Jun-09						
01-Jun-10						
01-Jun-11	4	0	0	0	0	0
01-Jun-12	6	0	1	1	0	1
01-Jun-13	7	0	1	0	1	2

Table 41 RPM cleared and replacement capacity by replacement percentage at parent company level for Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)														Total Net Replacements
	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		> 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Net		
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements			
01-Jun-07	129,281.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
01-Jun-08	24,252.7	0.0	105,687.0	(678.4)	130.7	(48.1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(726.5)	
01-Jun-09	27,524.7	13.3	105,605.8	(1,604.0)	6.8	(2.8)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(1,593.5)	
01-Jun-10	41,145.5	172.6	90,981.4	(3,313.1)	721.0	(299.3)	5.8	(3.3)	0.0	0.0	219.6	(219.6)	(3,662.7)		
01-Jun-11	13,689.7	53.3	117,522.9	(4,883.2)	164.9	(55.0)	0.0	0.0	233.4	(221.8)	668.7	(668.7)	(5,775.4)		
01-Jun-12	12,503.2	1,001.7	115,539.5	(5,776.8)	450.2	(154.9)	2,859.0	(1,659.0)	44.8	(42.9)	480.2	(480.2)	(7,112.1)		
01-Jun-13	13,081.3	105.3	130,869.9	(6,538.5)	591.6	(238.9)	3,281.0	(2,032.5)	0.0	0.0	336.9	(336.9)	(9,041.5)		



Table 42 RPM cleared and replacement capacity by replacement percentage at parent company level for internal Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)														Total Net Replacements
	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		> 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Net		
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements			
01-Jun-07	127,660.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-08	22,756.0	9.7	105,557.3	(677.3)	130.7	(48.1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(715.7)
01-Jun-09	29,838.8	86.7	101,569.6	(1,911.7)	6.8	(2.8)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(1,827.8)
01-Jun-10	40,487.3	159.3	89,522.6	(3,082.8)	717.0	(299.3)	5.8	(3.3)	0.0	0.0	219.6	(219.6)	219.6	(219.6)	(3,445.7)
01-Jun-11	11,943.1	53.3	117,479.3	(4,868.8)	137.1	(55.0)	0.0	0.0	229.4	(221.8)	668.7	(668.7)	668.7	(668.7)	(5,761.0)
01-Jun-12	11,738.3	1,001.8	114,988.8	(5,778.3)	409.0	(154.9)	2,745.0	(1,580.0)	44.8	(42.9)	434.5	(434.5)	434.5	(434.5)	(6,988.8)
01-Jun-13	12,346.8	105.3	129,468.5	(6,348.1)	587.8	(238.9)	3,281.0	(2,032.5)	0.0	0.0	48.1	(48.1)	48.1	(48.1)	(8,562.3)



Table 43 RPM cleared and replacement capacity by replacement percentage at parent company level for internal Generation Resources in service: June 1, 2007 to June 1, 2013

	UCAP (MW)														Total Net Replacements
	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		> 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Net		
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements			
01-Jun-07	127,614.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
01-Jun-08	22,756.0	9.7	105,447.4	(668.8)	130.7	(48.1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(707.2)	
01-Jun-09	10,551.4	80.8	120,372.5	(2,108.3)	6.8	(2.8)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(2,030.3)	
01-Jun-10	40,425.6	161.0	88,904.9	(3,061.7)	715.3	(299.3)	5.8	(3.3)	0.0	0.0	199.8	(199.8)	0.0	(3,403.1)	
01-Jun-11	11,919.6	67.0	115,516.8	(4,771.3)	104.8	(43.6)	0.0	0.0	229.4	(221.8)	13.4	(13.4)	0.0	(4,983.1)	
01-Jun-12	11,749.1	1,005.5	112,035.1	(5,854.1)	287.9	(106.8)	2,811.0	(1,624.4)	44.8	(42.9)	434.5	(434.5)	0.0	(7,057.2)	
01-Jun-13	36,890.3	207.4	101,170.3	(6,098.7)	466.7	(206.5)	3,142.3	(1,940.5)	0.0	0.0	48.1	(48.1)	0.0	(8,086.4)	



Table 44 RPM cleared and replacement capacity by replacement percentage at parent company level for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

	UCAP (MW)														
	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		> 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Total Net		
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements			
01-Jun-07	46.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
01-Jun-08	37.3	0.0	65.0	(0.9)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	(7.6)	(8.5)	
01-Jun-09	366.5	216.2	106.5	(5.2)	0.0	0.0	11.5	(8.5)	0.0	0.0	0.0	0.0	0.0	202.5	
01-Jun-10	51.5	0.0	607.7	(11.1)	7.6	(3.4)	14.3	(8.3)	0.0	0.0	19.8	(19.8)	(42.6)		
01-Jun-11	57.2	0.0	1,772.1	(43.6)	167.7	(57.7)	0.0	0.0	0.0	0.0	676.6	(676.6)	(777.9)		
01-Jun-12	1,945.8	141.2	943.5	(33.6)	102.2	(32.7)	0.0	0.0	0.0	0.0	6.5	(6.5)	68.4		
01-Jun-13	1,575.9	14.1	1,365.5	(84.7)	961.9	(294.1)	0.0	0.0	0.0	0.0	111.2	(111.2)	(475.9)		



Table 45 RPM cleared and replacement capacity by replacement percentage at parent company level for external Generation Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)														Total Net Replacements
	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		> 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Net		
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements			
01-Jun-07	1,620.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
01-Jun-08	143.2	0.0	1,483.2	(10.8)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(10.8)	
01-Jun-09	460.9	399.4	1,261.2	(165.1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	234.3	
01-Jun-10	957.3	14.1	1,163.7	(231.1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(217.0)	
01-Jun-11	663.2	219.7	1,158.8	(234.1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(14.4)	
01-Jun-12	1,118.5	37.0	238.3	(35.6)	0.0	0.0	114.0	(79.0)	0.0	0.0	45.7	(45.7)		(123.3)	
01-Jun-13	837.8	1.1	1,084.3	(17.3)	0.0	0.0	0.0	0.0	217.6	(174.2)	288.8	(288.8)		(479.2)	

Table 46 RPM cleared and replacement capacity by replacement percentage at parent company level for Demand Resources: June 1, 2007 to June 1, 2013

	UCAP (MW)														Total Net Replacements
	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		> 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Net		
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements			
01-Jun-07	127.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
01-Jun-08	376.5	0.0	182.9	(40.0)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(40.0)
01-Jun-09	100.1	0.0	335.2	(52.9)	0.0	0.0	51.6	(35.8)	406.0	(386.0)	0.0	0.0	0.0	0.0	(474.7)
01-Jun-10	42.0	0.0	439.3	(34.7)	0.0	0.0	0.0	0.0	0.0	0.0	481.6	(481.6)	0.0	0.0	(516.3)
01-Jun-11	97.1	12.7	0.0	0.0	903.5	(299.9)	196.4	(135.6)	0.0	0.0	629.6	(629.6)	0.0	0.0	(1,052.4)
01-Jun-12	1,494.8	54.3	1,970.3	(356.0)	4,727.4	(1,469.2)	0.0	0.0	493.8	(416.4)	66.3	(66.3)	0.0	0.0	(2,253.6)
01-Jun-13	558.6	175.0	2,859.0	(400.1)	5,659.5	(1,696.6)	631.3	(385.7)	430.1	(365.9)	641.1	(641.1)	0.0	0.0	(3,314.4)



Table 47 RPM cleared and replacement capacity by replacement percentage at parent company level for Energy Efficiency Resources: June 1, 2007 to June 1, 2013

	0 Percent		> 0 Percent and <= 25 Percent		> 25 Percent and <= 50 Percent		UCAP (MW) > 50 Percent and <= 75 Percent		> 75 Percent and < 100 Percent		100 Percent		Total Net Replacements
	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	RPM Cleared	Net Replacements	
	01-Jun-07												
01-Jun-08													
01-Jun-09													
01-Jun-10													
01-Jun-11	76.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
01-Jun-12	594.1	5.2	0.0	0.0	57.7	(28.6)	10.3	(7.5)	0.0	0.0	4.0	(4.0)	(34.9)
01-Jun-13	870.5	143.5	0.0	0.0	16.6	(6.6)	0.0	0.0	14.0	(13.2)	3.1	(3.1)	120.6



Figure 2 Company replacement percentages for Generation Resources: June 1, 2007 to June 1, 2013

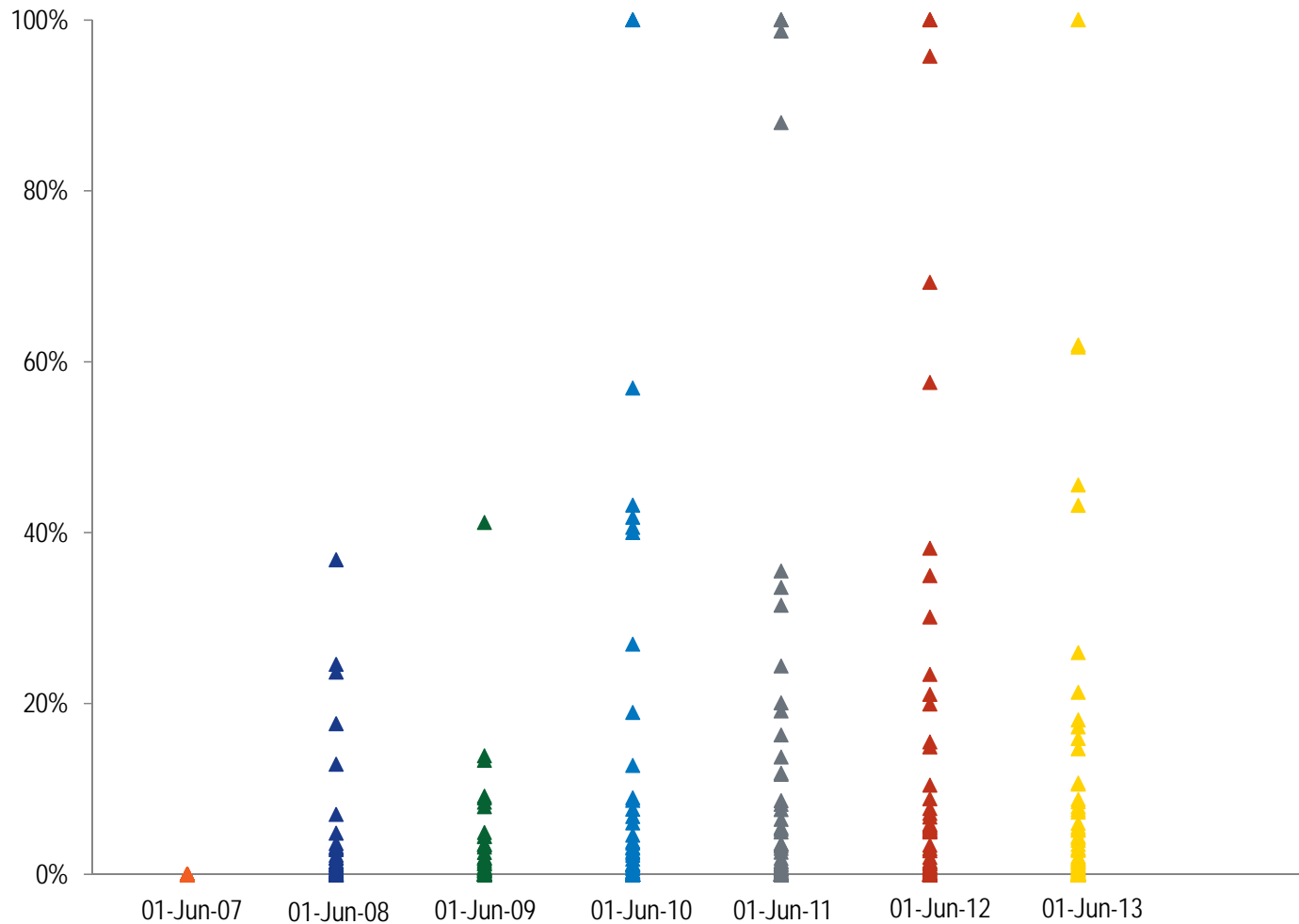


Figure 3 Company replacement percentages for internal Generation Resources: June 1, 2007 to June 1, 2013

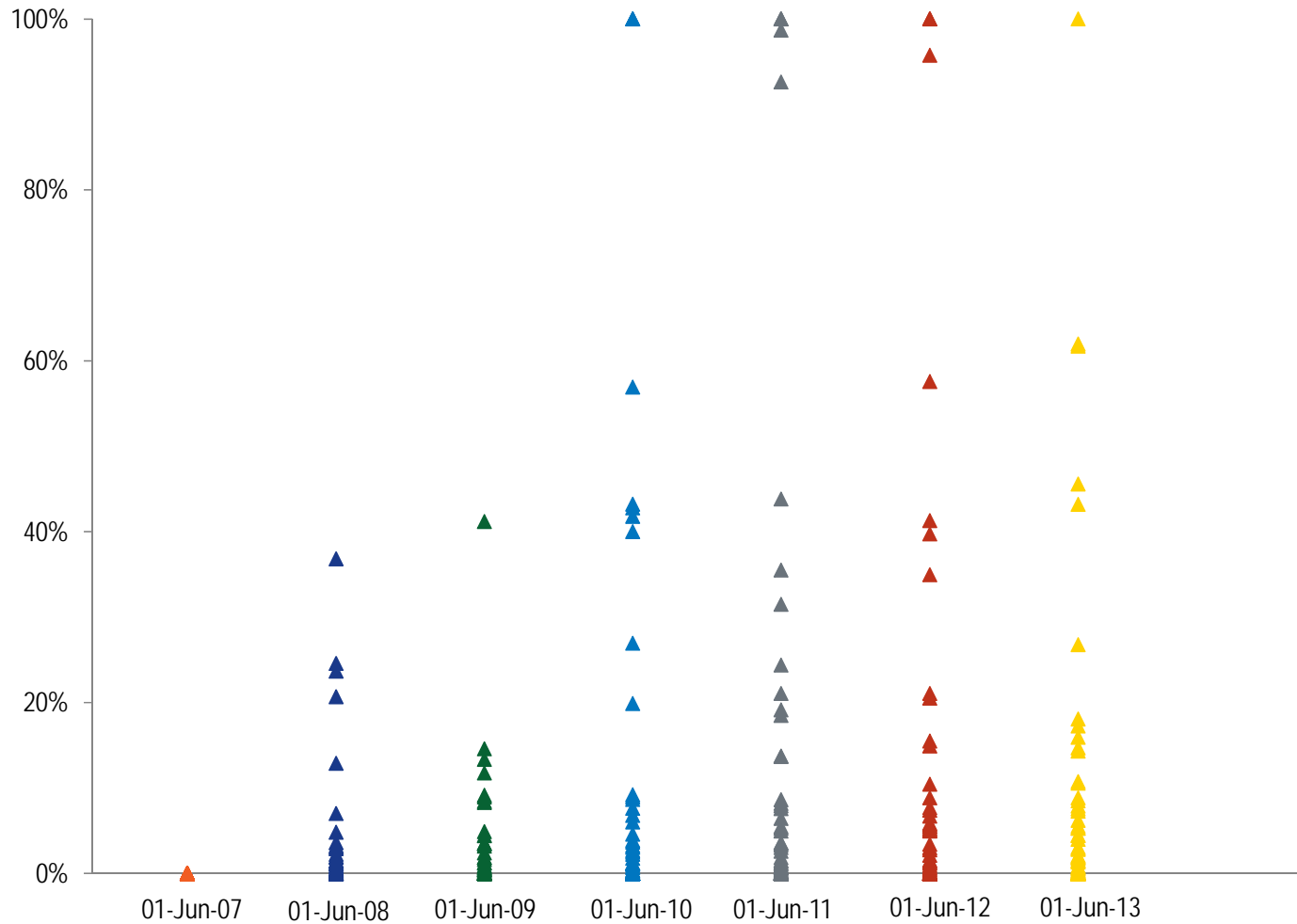


Figure 4 Company replacement percentages for internal Generation Resources in service: June 1, 2007 to June 1, 2013

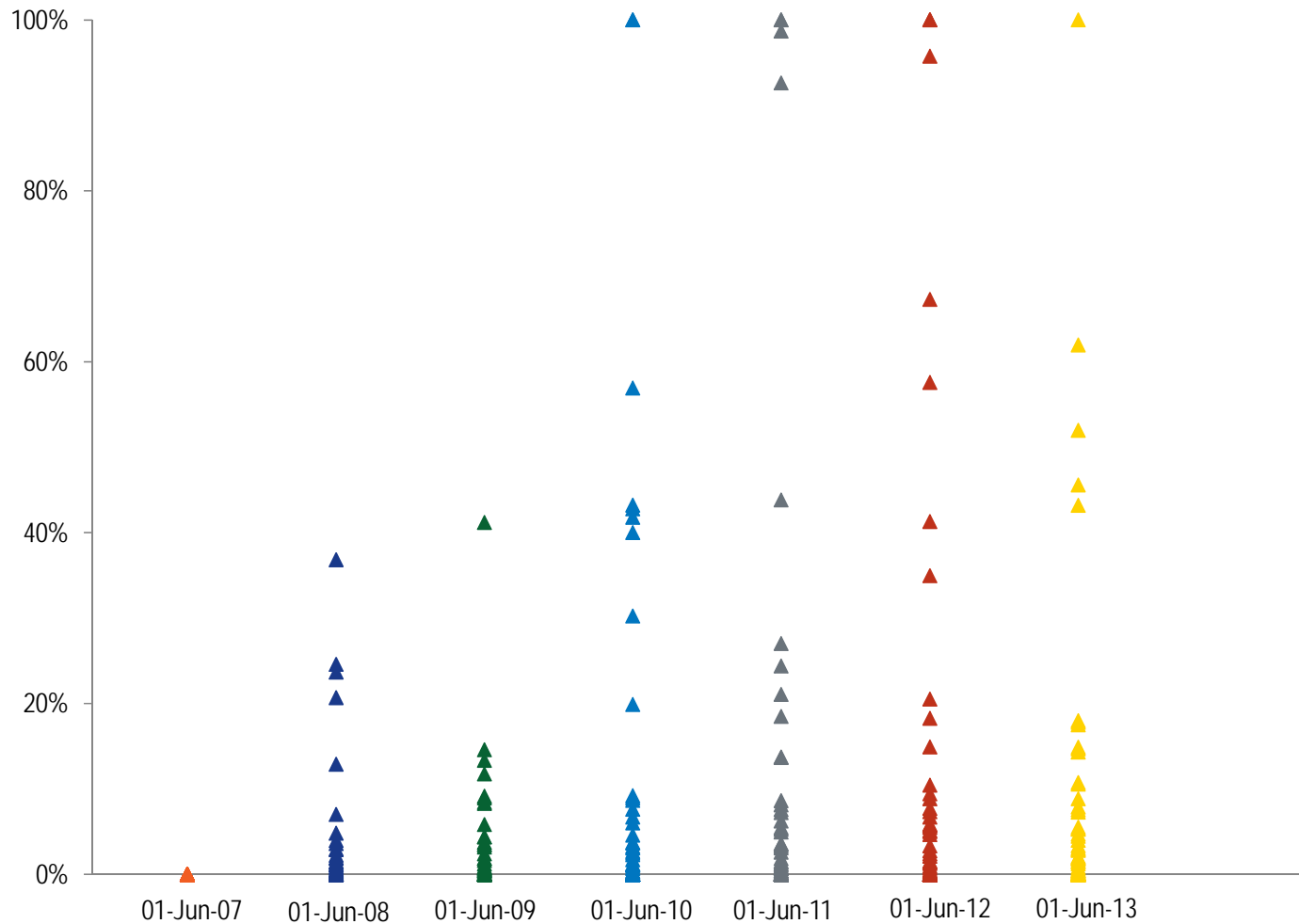


Figure 5 Company replacement percentages for internal Generation Resources not in service: June 1, 2007 to June 1, 2013

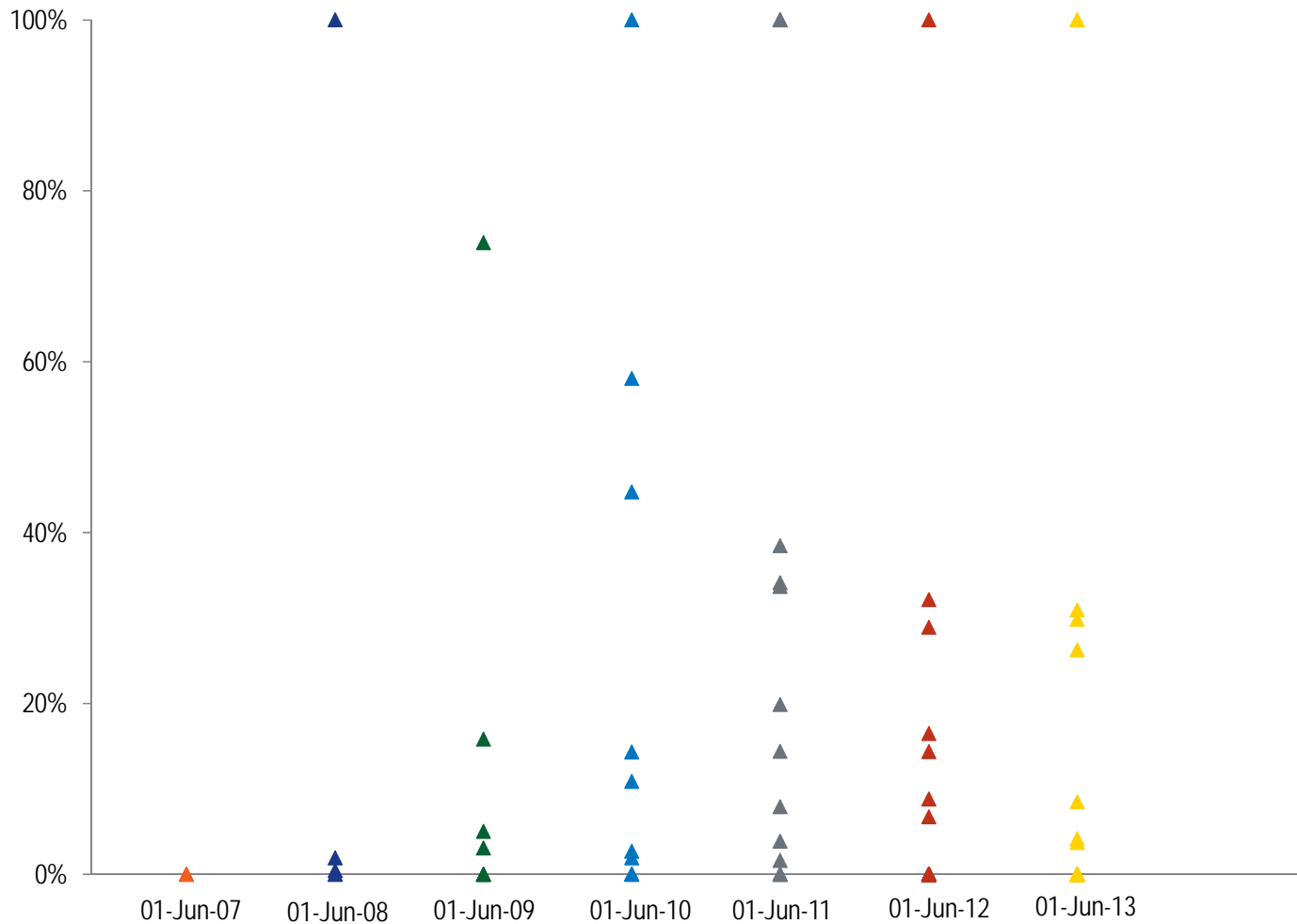


Figure 6 Company replacement percentages for external Generation Resources: June 1, 2007 to June 1, 2013

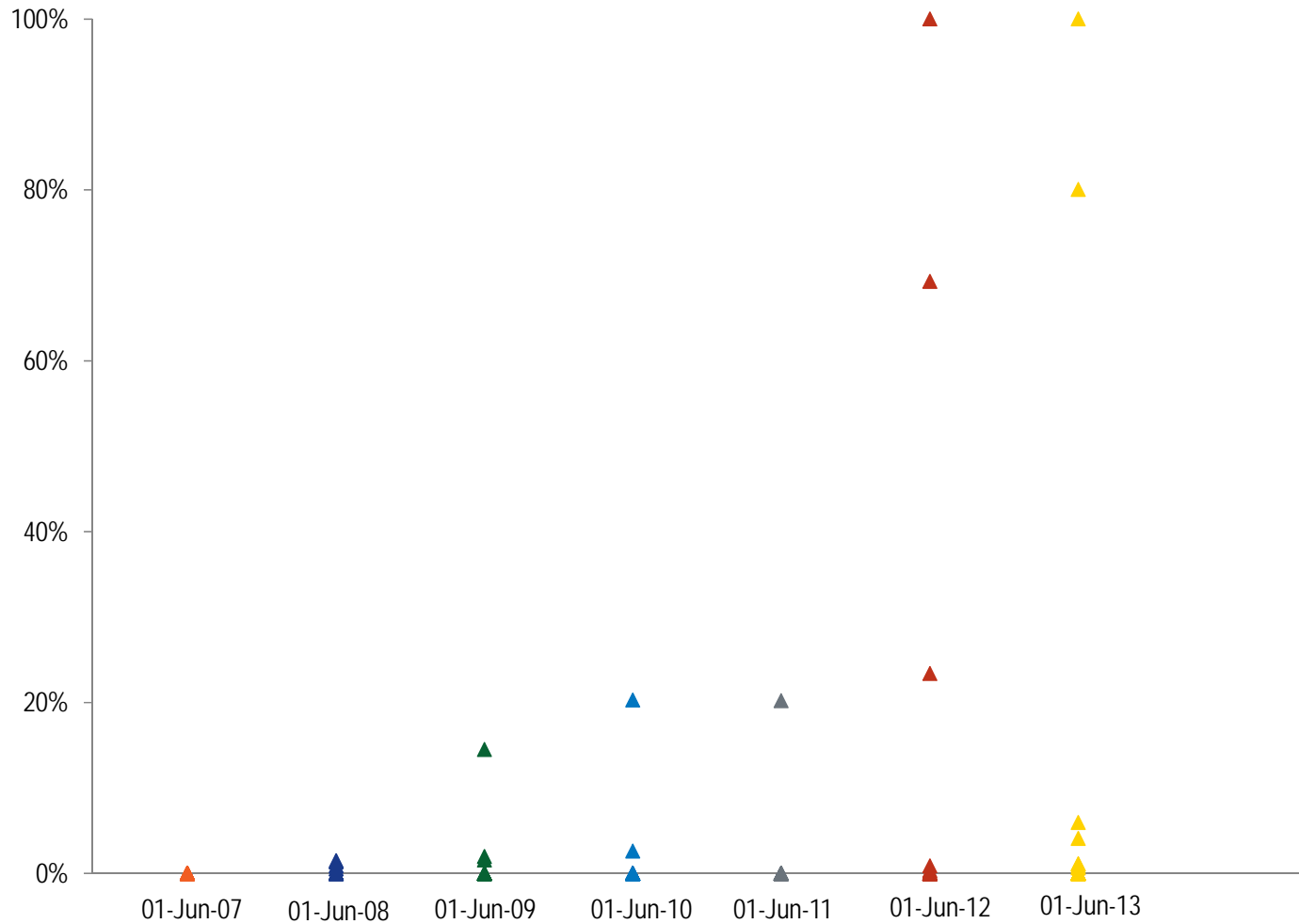


Figure 7 Company replacement percentages for Demand Resources: June 1, 2007 to June 1, 2013

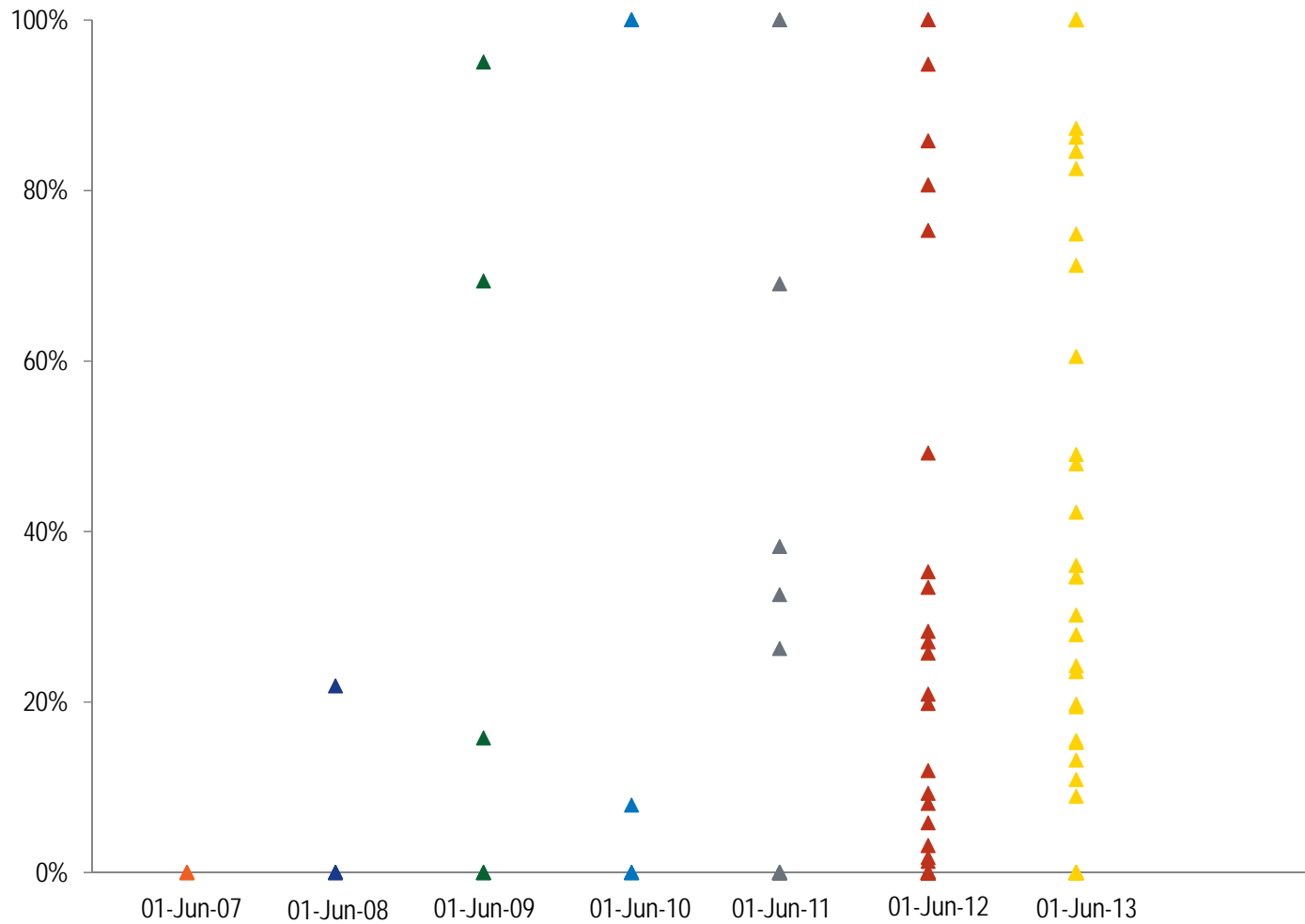
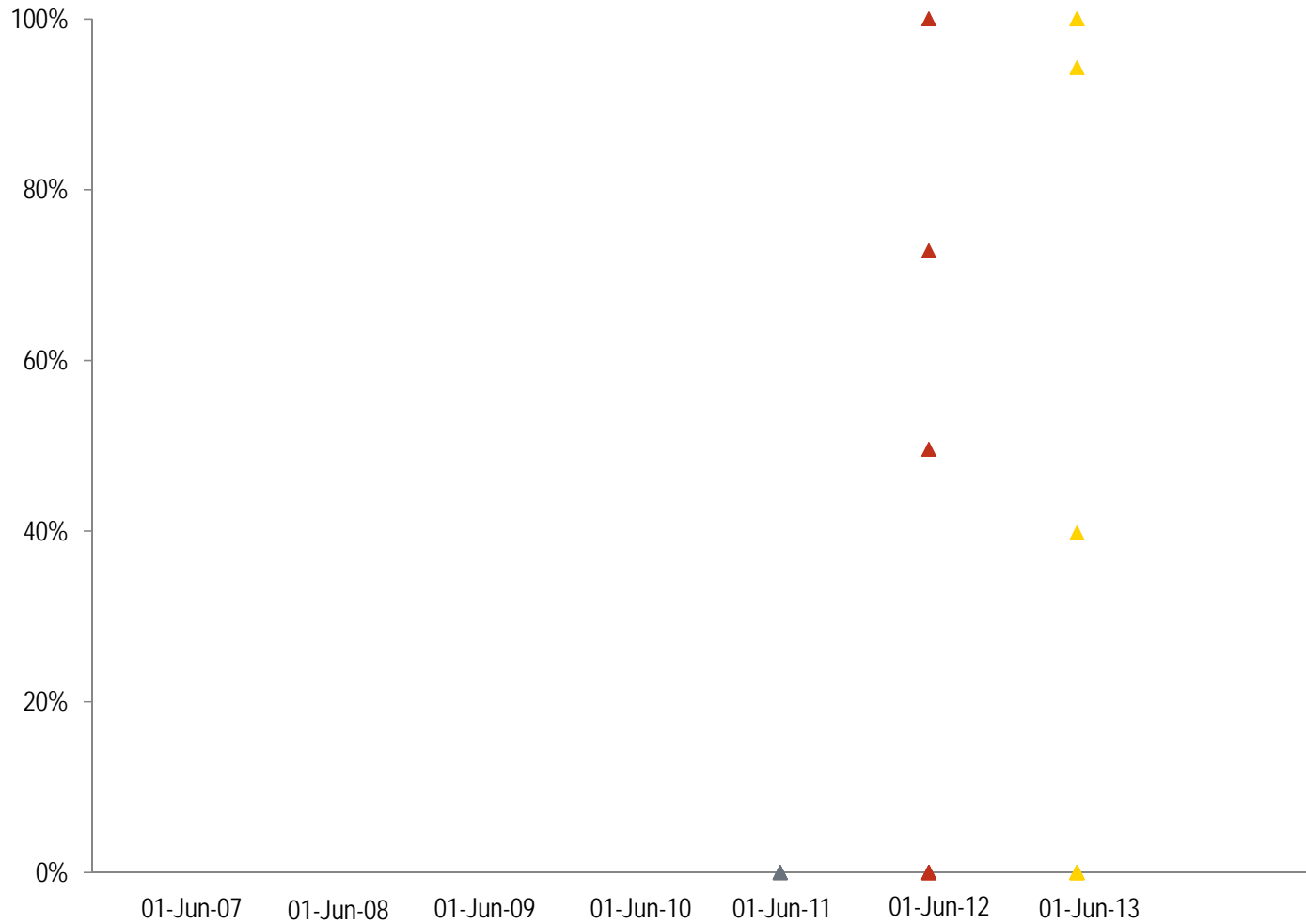


Figure 8 Company replacement percentages for Energy Efficiency Resources: June 1, 2007 to June 1, 2013



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