



NJ Solar Market Update

May 12, 2015

**Renewable Energy Committee Meeting
Trenton, NJ**

Prepared by Charlie Garrison



Solar Installed Capacity Data

- The preliminary installed solar capacity as of 4/30/15 is approximately 1,478.8 MW.
 - Approximately 9.1 MW reported as installed in April.
 - 35,613 solar installations
- The preliminary solar project pipeline capacity as of 4/30/15 is approximately 389 MW.
 - 7,882 projects in solar pipeline

For program reporting purposes, projects have achieved the "Installed" designation when the Final as-built documents are received and accepted by the Market Manager (noted as QC or QA Selected status in the project list).



NJCEP Solar Installed Projects Plus Pipeline History

NJCEP Solar Installed Projects Plus Pipeline History as of 4/30/15			
As Of	MW Installed	MW Pipeline	Combined MW
1/31/2014	1,201.4	323.5	1,524.9
2/28/2014	1,245.5	284.7	1,530.2
3/31/2014	1,267.1	224.8	1,491.9
4/30/2014	1,272.9	357.2	1,630.1
5/31/2014	1,298.1	352.9	1,651.0
6/30/2014	1,319.2	345.7	1,664.9
7/31/2014	1,336.8	358.3	1,695.1
8/31/2014	1,344.6	361.5	1,706.1
9/30/2014	1,354.0	359.2	1,713.3
10/31/2014	1,365.7	377.1	1,742.8
11/30/2014	1,373.4	391.9	1,765.3
12/31/2014	1,431.9	351.9	1,783.9
1/31/2015	1,438.9	355.8	1,794.6
2/28/2015	1,456.6	349.8	1,806.4
3/31/2015	1,469.7	395.8	1,865.5
4/30/2015	1,478.8	389.1	1,867.9

Preliminary values for 4/30/15



NJCEP Solar Installed Projects Plus Pipeline Projects Summary

Preliminary Values As of 4/30/15

Installed Solar Projects

Interconnection Type	Project Qty	Total Capacity (KW DC)	Percent of Capacity	Avg System Size (kW DC)
Behind the meter	35,488	1,163,070.3	78.6%	32.8
Direct Grid Supply	125	315,762.0	21.4%	2,526.1
Installed Totals	35,613	1,478,832.3	100.0%	41.5

Solar Project Pipeline

Interconnection Type	Project Qty	Total Capacity (KW DC)	Percent of Capacity	Avg System Size (kW DC)
Behind the meter	7,845	120,831.9	31.1%	15.4
Direct Grid Supply	37	268,224.4	68.9%	7,249.3
Pipeline Totals	7,882	389,056.3	100.0%	49.4

Totals For All Projects	43,495	1,867,888.6		42.9
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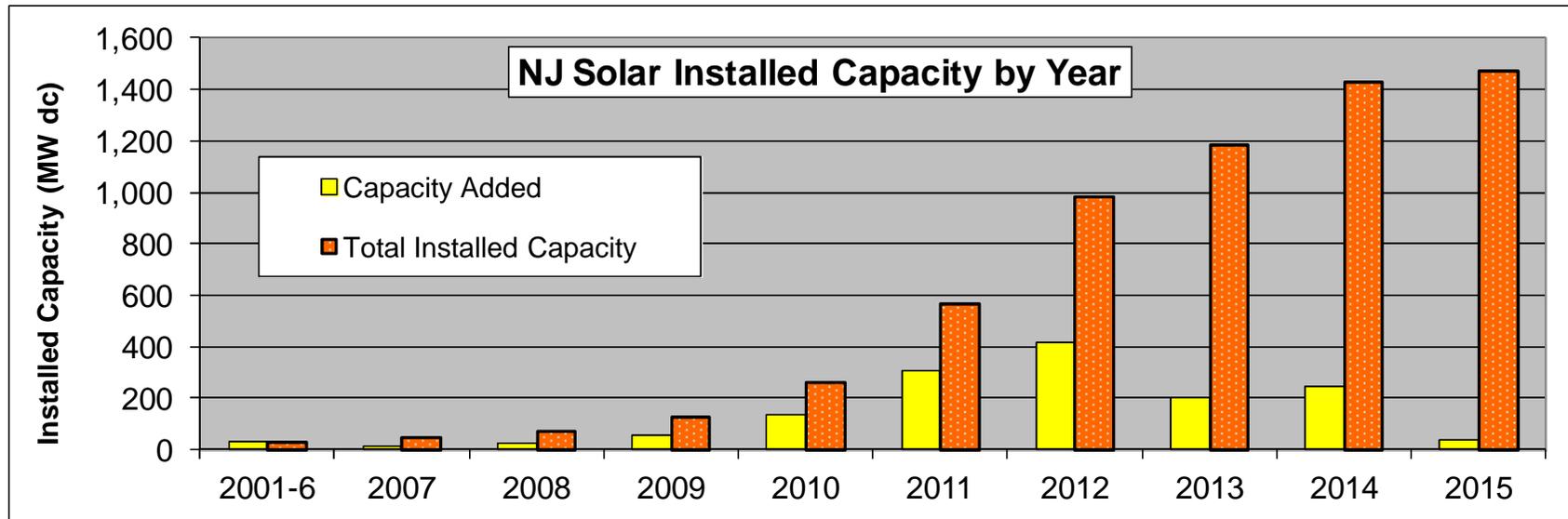


New Jersey Solar Installations by Year As of 4/30/15

Year	# Projects	Total kW	Total Rebate \$
2001-06	2,020	32,020.1	\$ 142,689,908
2007	693	15,255.1	\$ 58,122,386
2008	833	22,711.3	\$ 44,923,416
2009	1,349	57,254.3	\$ 56,026,262
2010	3,131	132,383.4	\$ 45,961,190
2011	5,397	305,199.0	\$ 13,383,747
2012	5,902	417,344.4	\$ 2,389,758
2013	6,539	202,247.0	\$ 4,691
2014	6,522	247,433.5	\$ -
2015	3,227	46,984.3	\$ -
Total	35,613	1,478,832.3	\$ 363,501,358



New Jersey Solar Installations by Year As of 4/30/15





NJCEP Direct Grid Supply Solar Project Summary

NJCEP Direct Grid Supply Solar Installed Projects As Of 04/30/15			
Description	Project Qty	Total Capacity (KW dc)	Percent of Capacity
EDC Projects	76	78,465.1	24.9%
Subsection q	9	54,782.8	17.4%
Subsection r	-	-	0.0%
Subsection s	3	12,687.7	4.0%
Subsection t	4	47,300.7	15.0%
Other	33	122,525.7	38.8%
Installed Totals	125	315,762.0	100.0%



NJCEP Direct Grid Supply Solar Project Summary

NJCEP Direct Grid Supply Solar Project Pipeline As Of 04/30/15			
Description	Project Qty	Total Capacity (KW dc)	Percent of Capacity
EDC Projects	-	-	0.0%
Subsection q	25	163,527.0	61.0%
Subsection r	-	-	0.0%
Subsection s	5	41,900.0	15.6%
Subsection t	3	19,695.7	7.3%
Other	4	43,101.7	16.1%
Pipeline Totals	37	268,224.4	100.0%



NJCEP Direct Grid Supply Solar Project Summary

NJCEP Subsection q Project Summary By Energy Year As Of 04/30/15

Energy Year	Subsection q Installed Projects		Subsection q Project Pipeline		Subsection q Installed Projects Plus Pipeline Projects	
	Project Qty	Total Capacity (KW dc)	Project Qty	Total Capacity (KW dc)	Project Qty	Total Capacity (KW dc)
EY14	8	46,337.2	6	30,660.0	14	76,997.2
EY15	1	8,445.6	10	71,061.0	11	79,506.6
EY16	-	-	9	61,806.0	9	61,806.0
Totals	9	54,782.8	25	163,527.0	34	218,309.8



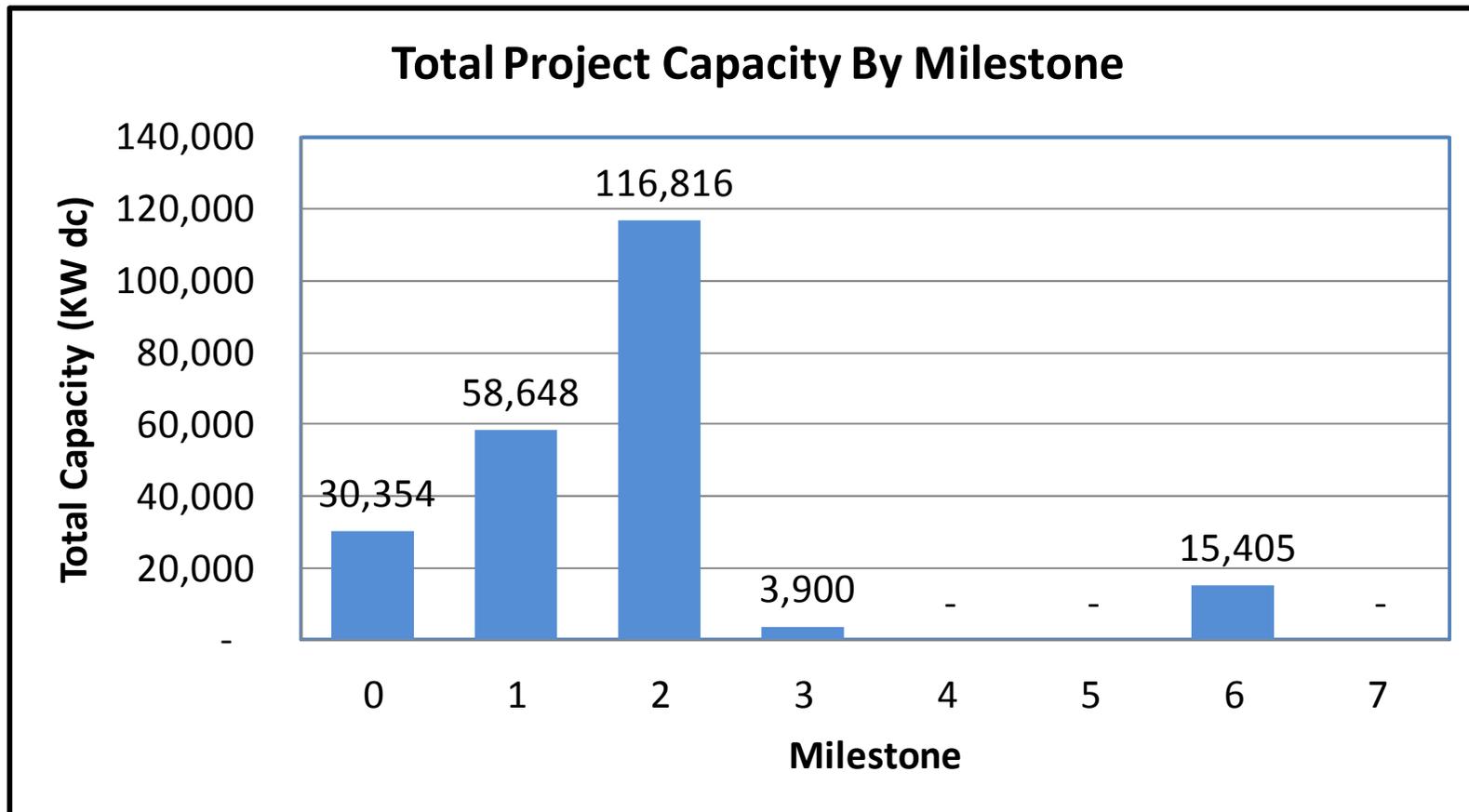
NJCEP Direct Grid Supply Solar Milestone Summary as of 3/31/15

Includes Subsection q and t Projects in Solar Pipeline

Milestone Number	Project Qty	Total Capacity (KW dc)	Milestone Description
0	5	30,354	
1	9	58,648	Received interconnection application approval from EDC
2	15	116,816	All required federal, state and local permits obtained
3	1	3,900	Mounting system installed
4	0	-	Greater than 50% of solar panels installed
5	0	-	100% of solar panels installed
6	3	15,405	All equipment installed, system testing complete and request sent to EDC to test and authorize operation of system
7	0	-	EDC or PJM Authorization to Operate Approval
Totals	33	225,123	



NJCEP Direct Grid Supply Solar Milestone Summary as of 3/31/15





NJCEP Direct Grid Supply Solar Milestone Summary as of 3/31/15

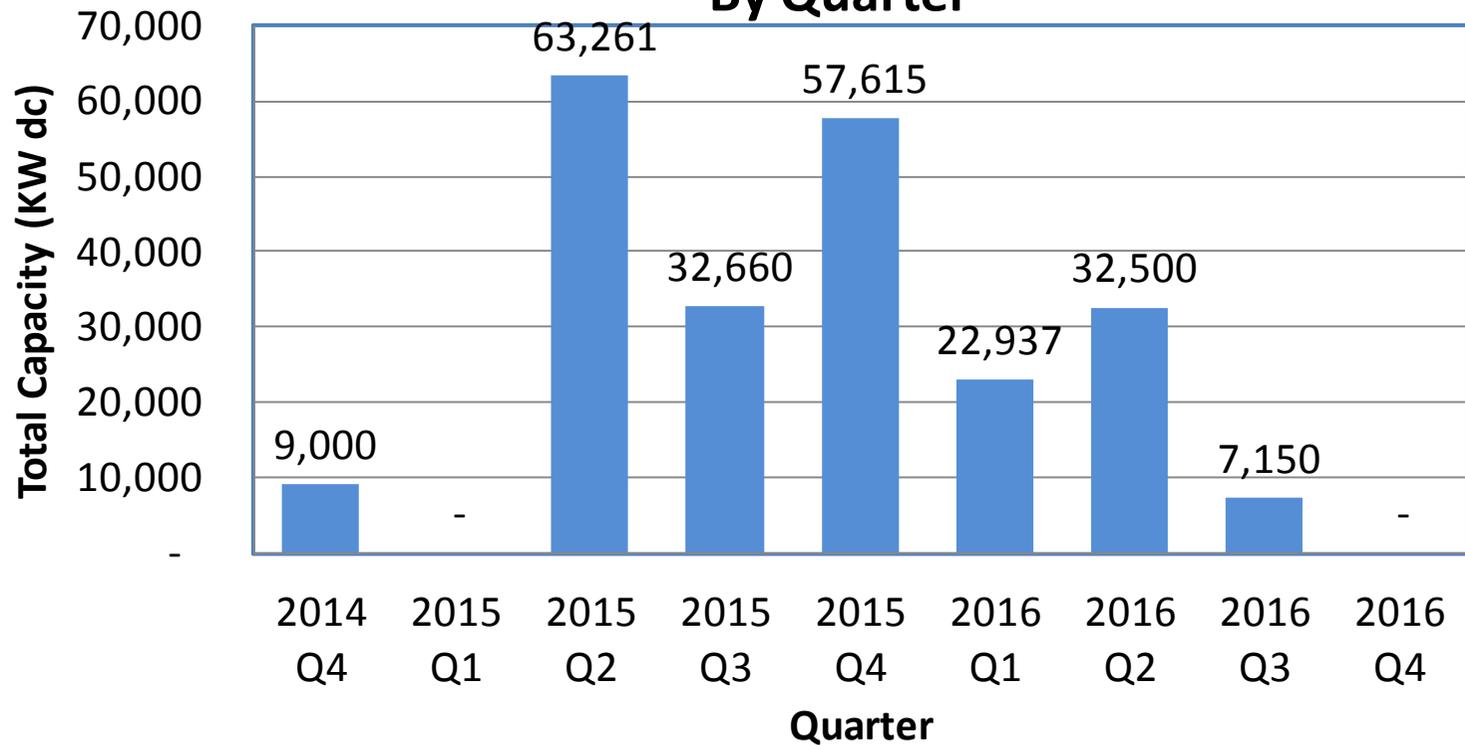
Summary of Estimated Construction Completion By Quarter as of 3/31/15 Includes Subsection q and t Projects in Solar Pipeline

Quarter	Project Qty	Total Capacity (KW dc)
2014 Q4	1	9,000
2015 Q1	0	-
2015 Q2	9	63,261
2015 Q3	6	32,660
2015 Q4	9	57,615
2016 Q1	3	22,937
2016 Q2	4	32,500
2016 Q3	1	7,150
2016 Q4	0	-
Totals	33	225,123



NJCEP Direct Grid Supply Solar Milestone Summary as of 3/31/15

Summary of Estimated Construction Completion By Quarter





NJCEP Solar Generation Scenarios – EY 2015

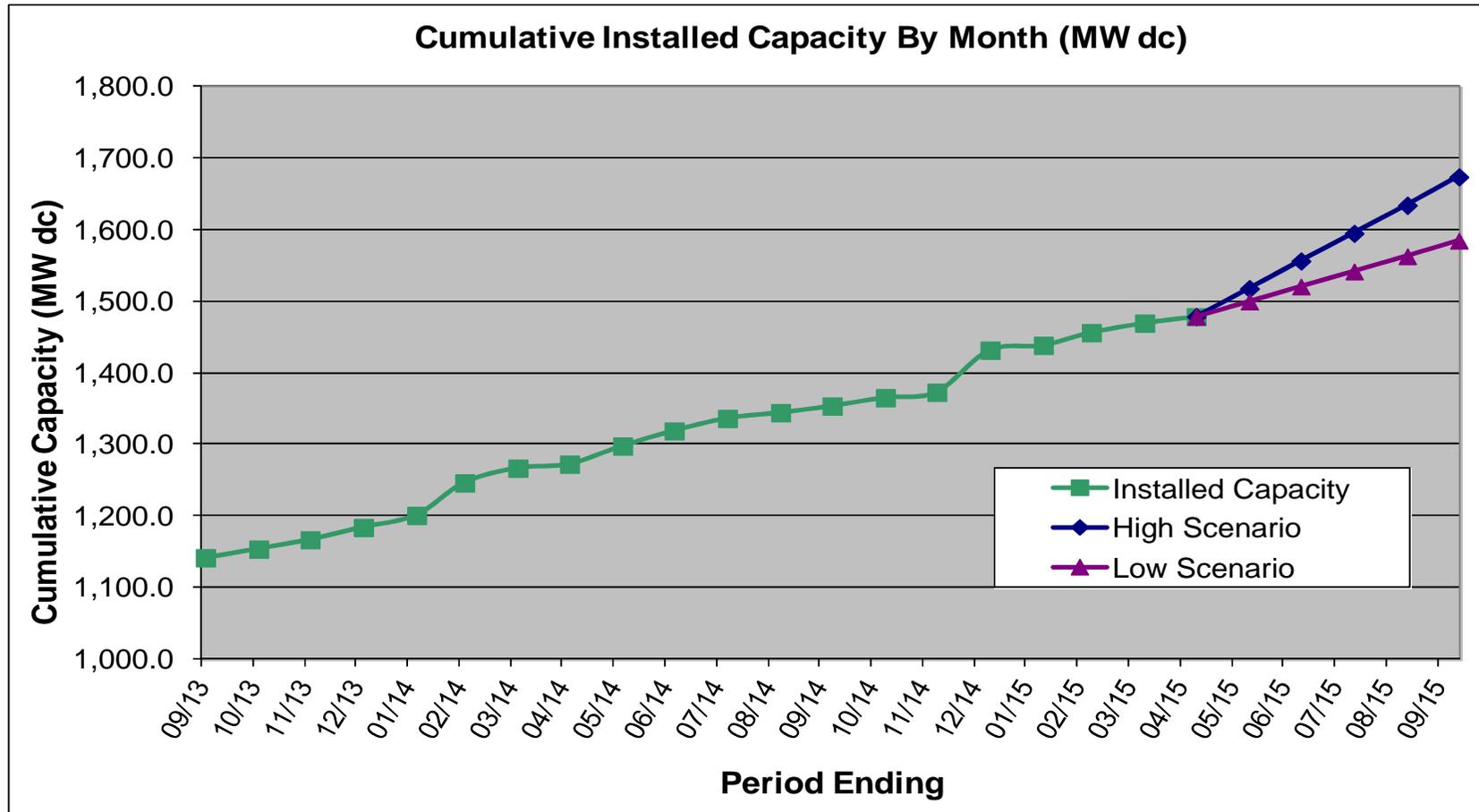
Cumulative Installed Capacity (MW dc)													
End Date	09/30/14	10/31/14	11/30/14	12/31/14	01/31/15	02/28/15	03/31/15	04/30/15	05/31/15	06/30/15	07/31/15	08/31/15	09/30/15
Forecast - Low	1,354.0	1,365.6	1,373.3	1,431.8	1,438.8	1,456.6	1,469.7	1,478.8	1,499.8	1,520.8	1,541.9	1,563.3	1,584.8
Forecast - High	1,354.0	1,365.6	1,373.3	1,431.8	1,438.8	1,456.6	1,469.7	1,478.8	1,518.0	1,556.4	1,595.2	1,634.4	1,673.9

The 1478.8 MW of solar capacity installed as of 04/30/15 and the additional solar capacity estimated to be installed for the remainder of Energy Year 2015 is capable of producing approximately 1,666,800 to 1,669,100 SRECs from electricity generated during Energy Year 2015.

This data is provided for informational purposes only. Past levels of installed capacity rates are not predictive of future values, and any persons considering investment in the solar market should perform their independent due diligence.



NJCEP Solar Generation Scenarios – EY 2015



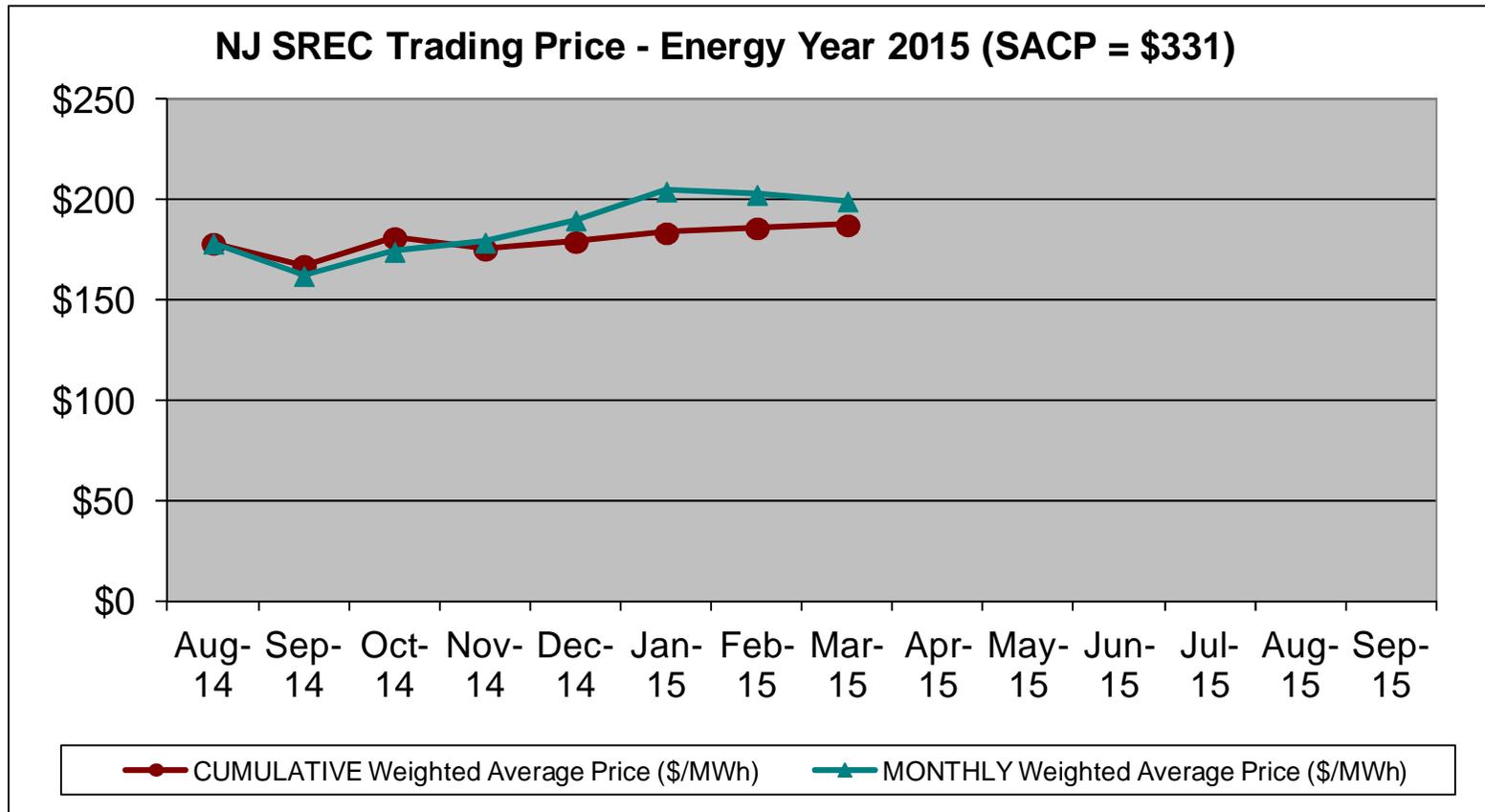


SREC Trading Statistics Energy Year 2015

EY 2015 SACP= \$331			SREC Quantity		Monthly		Cumulative	
Month	Year	Active kW DC	Issued in Month	Traded in Month	High (\$/MWh)	Low (\$/MWh)	# of SRECs Traded	Weighted Avg Price (\$/MWh)
Sept	2015							
Aug	2015							
July	2015							
June	2015							
May	2015							
Apr	2015							
Mar	2015	1,421,194	85,161	141,976	\$ 495	\$ 48	1,253,097	\$187.45
Feb	2015	1,414,267	74,497	142,317	\$ 488	\$ 67	1,111,121	\$185.93
Jan	2015	1,369,714	62,856	169,175	\$ 590	\$ 46	968,804	\$183.49
Dec	2014	1,353,364	98,501	208,575	\$ 486	\$ 70	799,629	\$179.11
Nov	2014	1,346,214	103,381	139,726	\$ 518	\$ 41	591,054	\$175.31
Oct	2014	1,337,451	152,339	226,727	\$ 518	\$ 70	451,328	\$181.15
Sept	2014	1,320,396	164,188	153,637	\$ 518	\$ 70	224,601	\$167.25
Aug	2014	1,314,831	163,745	66,311	\$ 518	\$ 70	70,964	\$178.25
July	2014	1,310,426	150,158	4,653	Due to low trade volume, the July trades are reported with the pricing data for August.			
	Total		1,054,826	1,253,097				



SREC Trading Statistics Energy Year 2015





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