



# **NJ Solar Market Update**

**Prepared by Charlie Garrison  
October 14, 2014**



## Solar Installed Capacity Data

- The preliminary installed solar capacity as of 9/30/14 is approximately 1,354 MW.
  - Approximately 9.3 MW reported as installed in September.
- The preliminary solar capacity project pipeline as of 9/30/14 is approximately 359.2 MW.

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).



## Solar Installed Capacity Data

- The 2014 Year to date installed capacity is approximately 106% of the 2013 YTD value for the same period.
- A comparison of the solar capacity added in the two most recently completed quarters is as follows:
  - Q2 2014 = 52.1 MW                      Q3 2014 = 34.8 MW
  - Percent change: Decrease of approximately 33%



# NJCEP Solar Installed Projects Plus Pipeline History

<b>NJCEP Solar Installed Projects Plus Pipeline History as of 9/30/14</b>			
<b>As Of</b>	<b>MW Installed</b>	<b>MW Pipeline</b>	<b>Combined MW</b>
4/30/2013	1,075.9	660.2	1,736.1
5/31/2013	1,098.5	656.9	1,755.4
6/30/2013	1,114.3	562.5	1,676.8
7/31/2013	1,125.8	516.9	1,642.7
8/31/2013	1,134.3	357.1	1,491.4
9/30/2013	1,142.3	354.4	1,496.7
10/31/2013	1,155.4	357.4	1,512.8
11/30/2013	1,168.1	346.3	1,514.4
12/31/2013	1,184.5	338.0	1,522.5
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

Preliminary values for 9/30/14



# NJCEP Solar Installed Projects Plus Pipeline Projects Summary

Preliminary Values As of 9/30/14

## Installed Solar Projects

Interconnection Type	Project Qty	Total Capacity (KW DC)	Percent of Capacity	Avg System Size (kW DC)
Behind the meter	30,492	1,087,972.5	80.4%	35.7
Direct Grid Supply	119	266,054.1	19.6%	2,235.7
<b>Installed Totals</b>	<b>30,611</b>	<b>1,354,026.5</b>	<b>100.0%</b>	<b>44.2</b>

## Solar Project Pipeline

Interconnection Type	Project Qty	Total Capacity (KW DC)	Percent of Capacity	Avg System Size (kW DC)
Behind the meter	4,473	74,601.4	20.8%	16.7
Direct Grid Supply	38	284,643.7	79.2%	7,490.6
<b>Pipeline Totals</b>	<b>4,511</b>	<b>359,245.1</b>	<b>100.0%</b>	<b>79.6</b>

<b>Totals For All Projects</b>	<b>35,122</b>	<b>1,713,271.7</b>		<b>48.8</b>
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# NJCEP Direct Grid Supply Solar Project Summary

<b>NJCEP Direct Grid Supply Solar Installed Projects As Of 09/30/14</b>			
<b>Description</b>	<b>Project Qty</b>	<b>Total Capacity (KW dc)</b>	<b>Percent of Capacity</b>
EDC Projects	76	78,465.1	29.5%
Subsection q	6	32,495.0	12.2%
Subsection r	-	-	0.0%
Subsection s	3	12,687.7	4.8%
Subsection t	1	19,880.6	7.5%
Other	33	122,525.7	46.1%
<b>Installed Totals</b>	<b>119</b>	<b>266,054.1</b>	<b>100.0%</b>



# NJCEP Direct Grid Supply Solar Project Summary

<b>NJCEP Direct Grid Supply Solar Project Pipeline As Of 09/30/14</b>			
<b>Description</b>	<b>Project Qty</b>	<b>Total Capacity (KW dc)</b>	<b>Percent of Capacity</b>
EDC Projects	-	-	0.0%
Subsection q	29	198,747.0	69.8%
Subsection r	-	-	0.0%
Subsection s	-	-	0.0%
Subsection t	5	42,795.0	15.0%
Other	4	43,101.7	15.1%
<b>Pipeline Totals</b>	<b>38</b>	<b>284,643.7</b>	<b>100.0%</b>



# NJCEP Direct Grid Supply Solar Project Summary

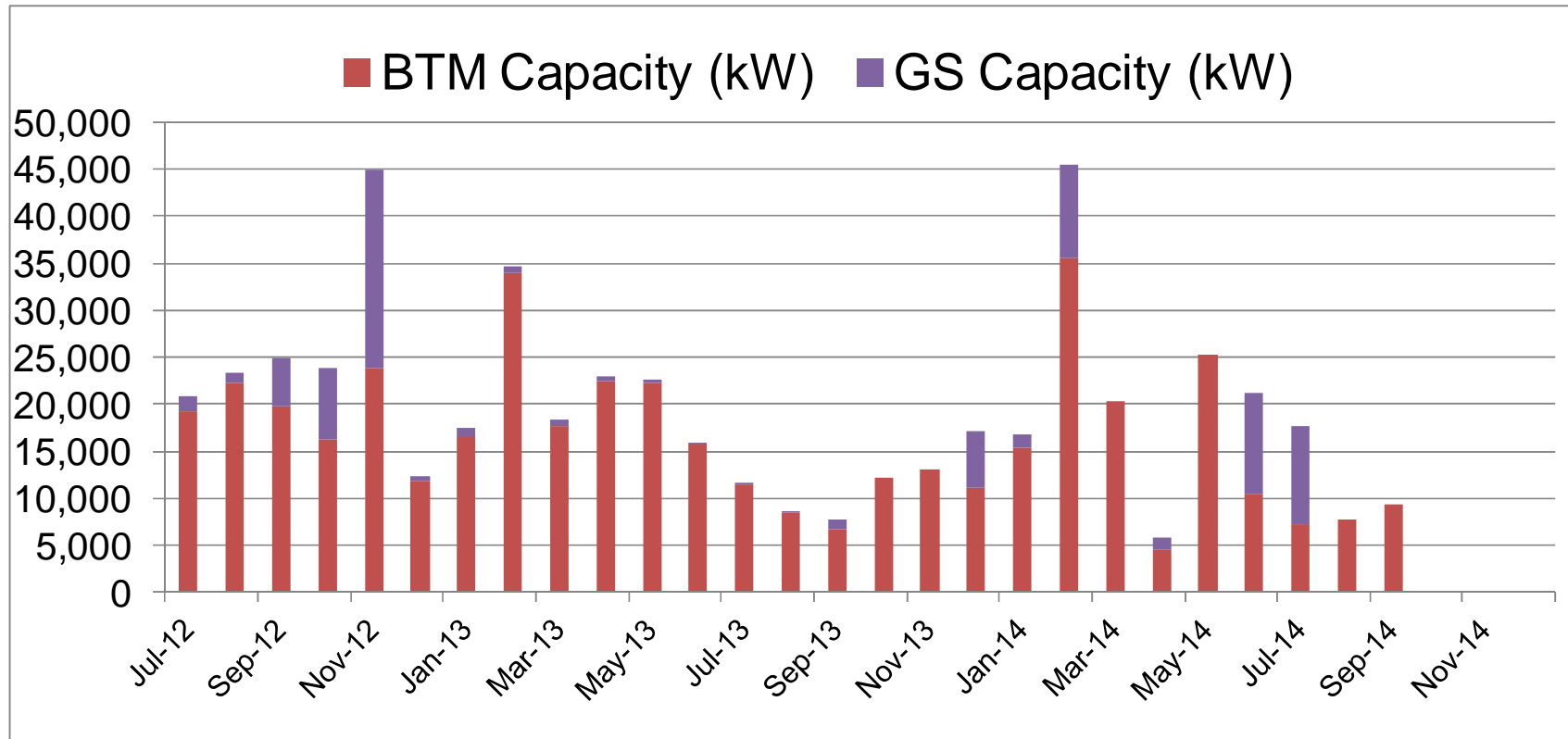
NJCEP Subsection q Project Summary By Energy Year As Of 09/30/14						
	Subsection q Installed Projects		Subsection q Project Pipeline		Subsection q Installed Projects Plus Pipeline Projects	
Energy Year	Project Qty	Total Capacity (KW dc)	Project Qty	Total Capacity (KW dc)	Project Qty	Total Capacity (KW dc)
EY14	5	24,049.5	9	55,880.0	14	79,929.5
EY15	1	8,445.6	10	71,061.0	11	79,506.6
EY16	-	-	10	71,806.0	10	71,806.0
<b>Totals</b>	<b>6</b>	<b>32,495.0</b>	<b>29</b>	<b>198,747.0</b>	<b>35</b>	<b>231,242.0</b>

Note: The above table provides the SRP project status as of the report date. This information is a snapshot of the program activity as of the report date. Changes to the project status or system size that may be under various stages of review are not reported here until the changes are accepted and the information is entered into the SRP Program database.





# NJCEP Solar Capacity Added By Month and INX Type (DC KW)





# Summary of TPO Use For NJCEP Installed Solar Projects

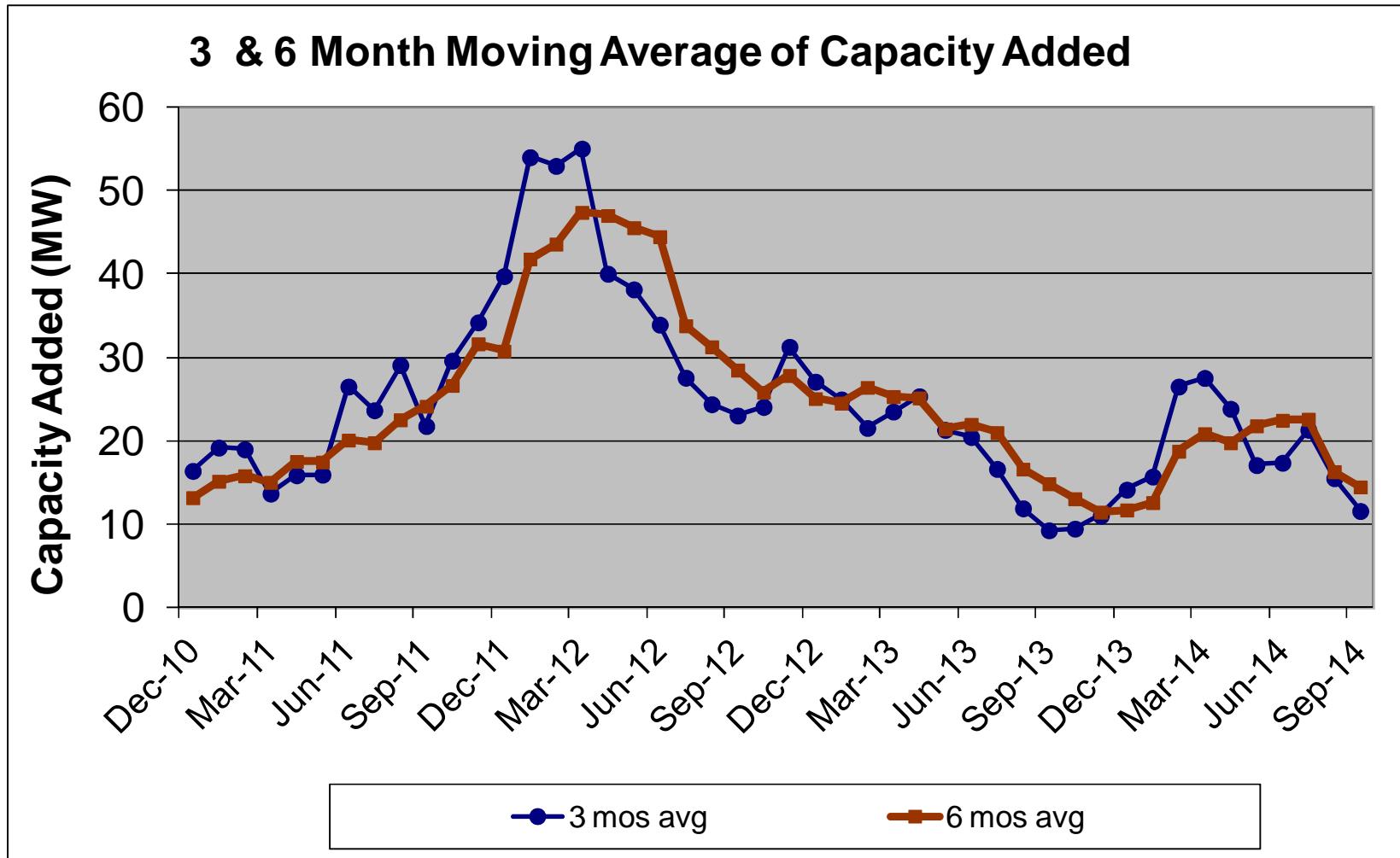
Summary of TPO Use For NJCEP Installed Solar Projects				
All Behind the Meter Installed Projects As of 09/30/14				
TPO Code	Description	Project Qty	Total Capacity (KW dc)	Percent of Capacity
0	Did Not use TPO	4,669	205,750	25.6%
1	Used TPO	17,042	597,253	74.4%
	<b>Totals</b>	<b>21,711</b>	<b>803,003</b>	<b>100%</b>
Blank	Unknown	8,781	284,969	

Residential Behind the Meter Installed Projects As of 09/30/14				
TPO Code	Description	Project Qty	Total Capacity (KW dc)	Percent of Capacity
0	Did Not use TPO	3,513	32,098	20.6%
1	Used TPO	15,502	124,048	79.4%
	<b>Totals</b>	<b>19,015</b>	<b>156,145</b>	<b>100%</b>
Blank	Unknown	6,906	52,947	

Note 1: The above tables provide a summary of responses regarding the use of Third Party Ownership (TPO) as reported on the SRP Registration form by the registrant. The quantities for the projects that are listed as "Unknown" are provided as a reference but are not included in the Totals or the Percent of Capacity calculation.

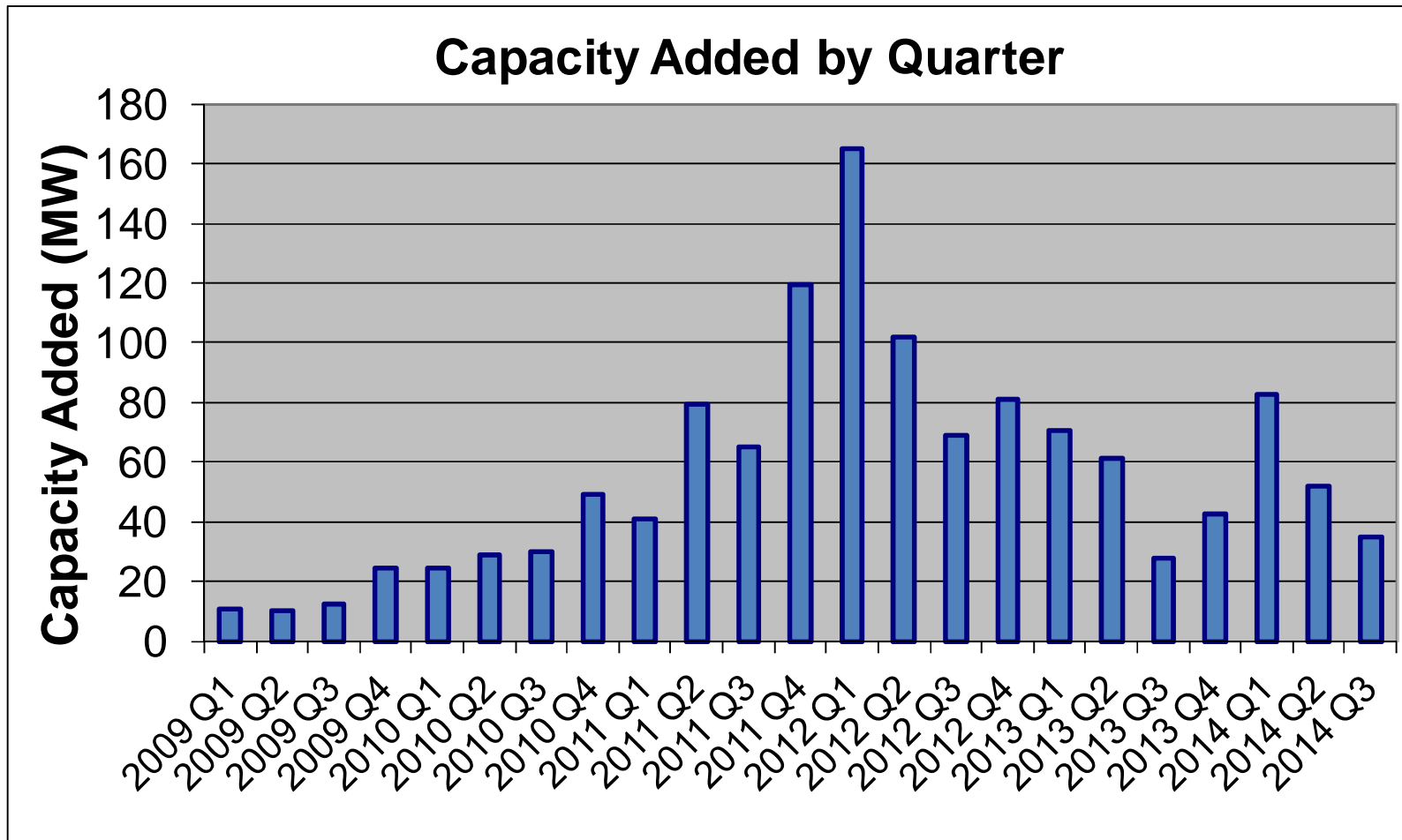


# Solar Installed Capacity All Projects



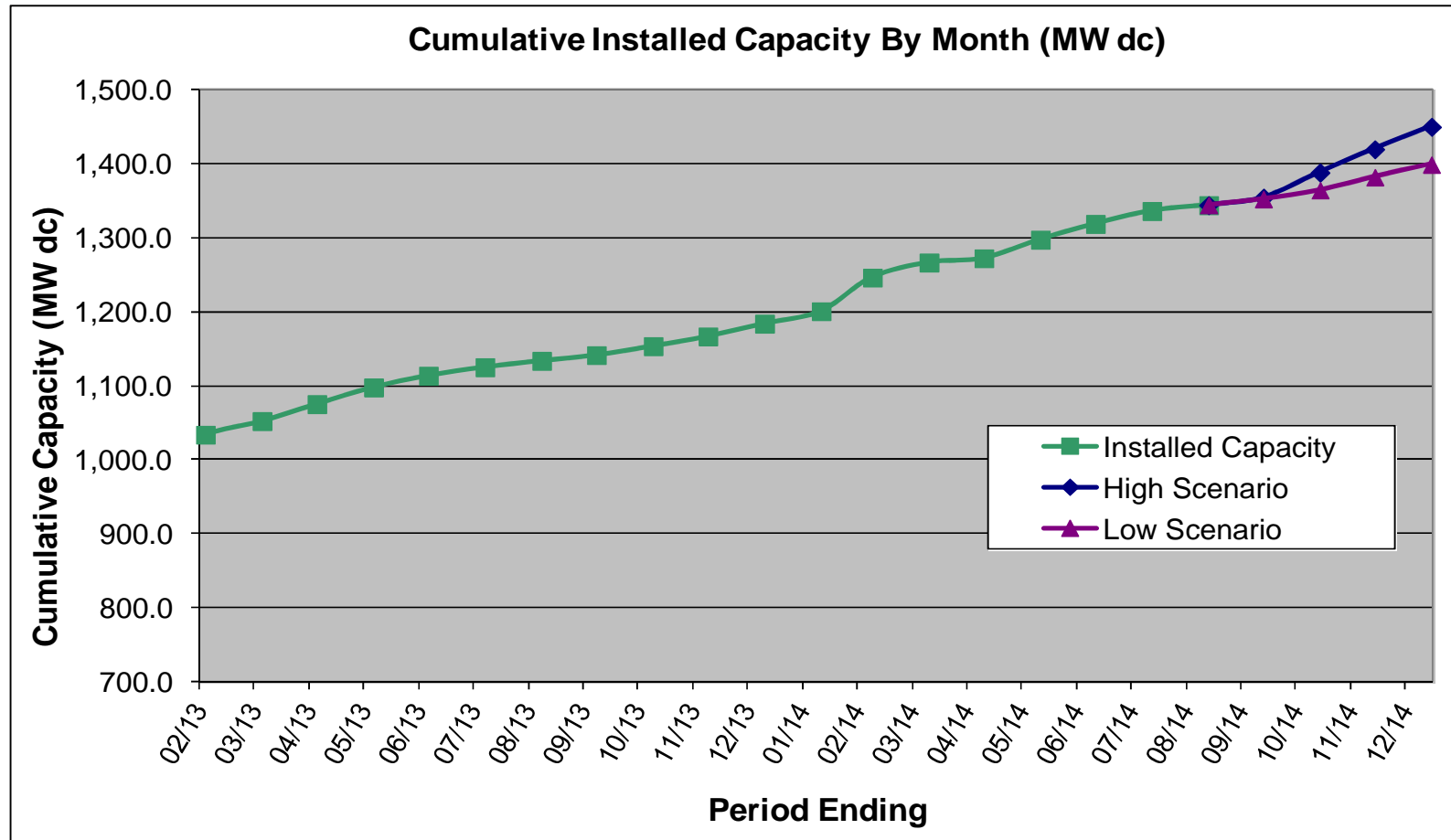


# Solar Installed Capacity Added By Quarter





# 2014 Installed Capacity Low and High Scenarios



**Low Scenario 1,399 MW, High Scenario 1,450 MW**



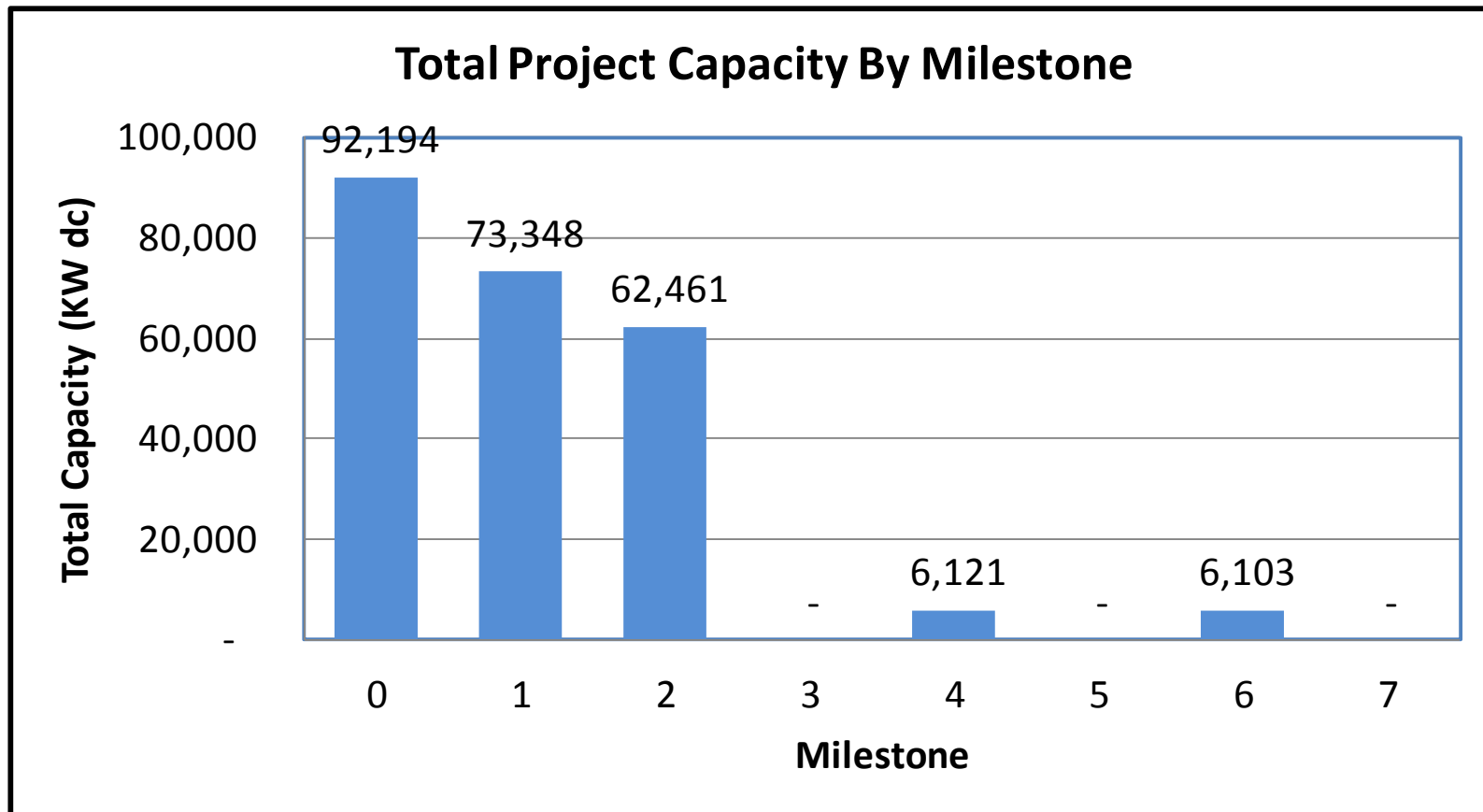
# Milestone Summary as of 6/30/14

## Includes Subsection q and t Projects in Solar Pipeline

Milestone Number	Project Qty	Total Capacity (KW dc)	Milestone Description
0	13	92,194	
1	11	73,348	Received interconnection application approval from EDC
2	8	62,461	All required federal, state and local permits obtained
3	0	-	Mounting system installed
4	1	6,121	Greater than 50% of solar panels installed
5	0	-	100% of solar panels installed
6	1	6,103	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
<b>Totals</b>	<b>34</b>	<b>240,227</b>	



# Milestone Summary as of 6/30/14 Includes Subsection q and t Projects in Solar Pipeline





# Summary of Estimated Construction Completion By Quarter as of 6/30/14

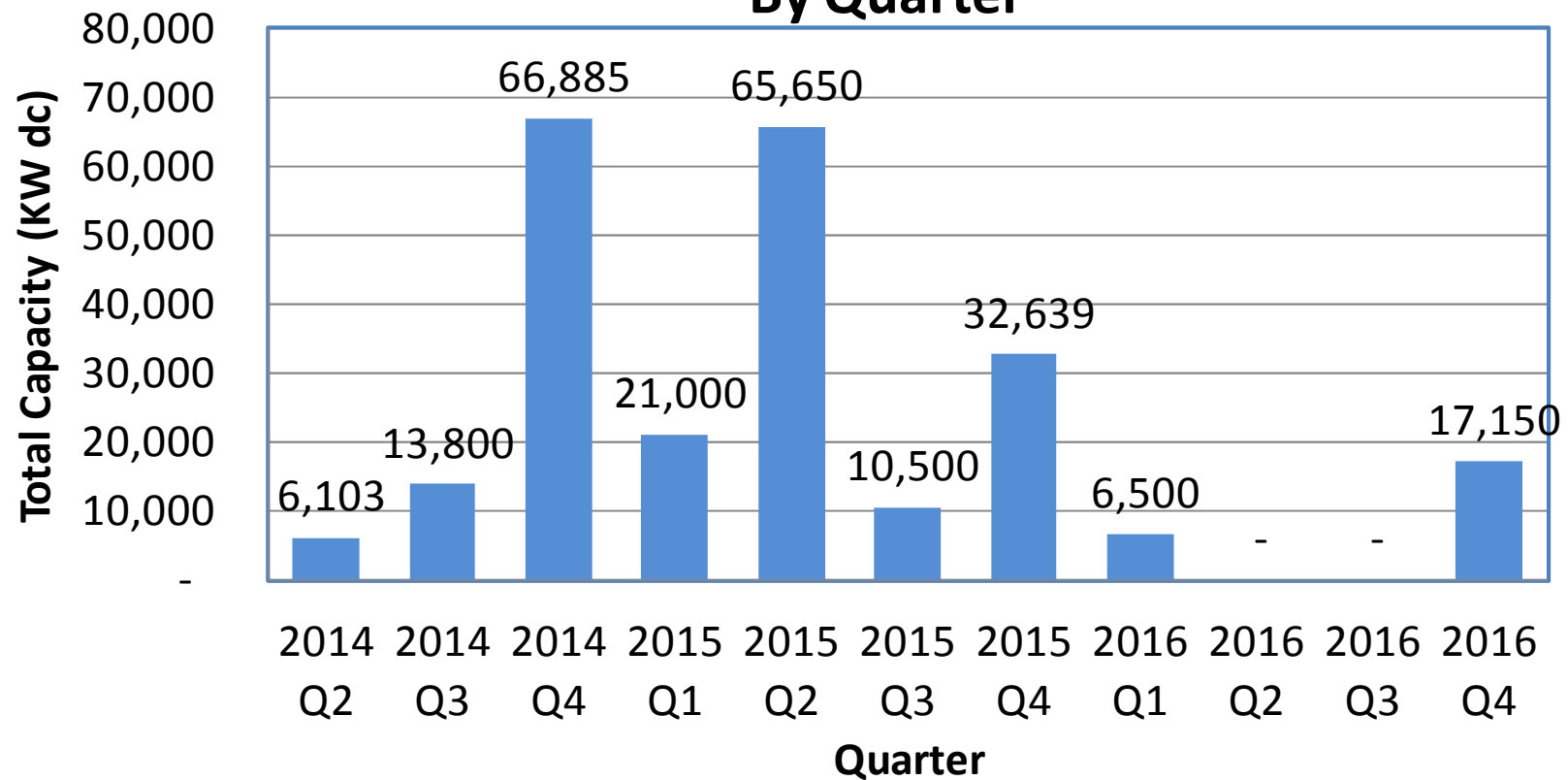
Quarter	Project Qty	Total Capacity (KW dc)
2014 Q2	1	6,103
2014 Q3	2	13,800
2014 Q4	9	66,885
2015 Q1	3	21,000
2015 Q2	9	65,650
2015 Q3	2	10,500
2015 Q4	5	32,639
2016 Q1	1	6,500
2016 Q2	0	-
2016 Q3	0	-
2016 Q4	2	17,150
<b>Totals</b>	<b>34</b>	<b>240,227</b>





# Summary of Estimated Construction Completion By Quarter as of 6/30/14

## Summary of Estimated Construction Completion By Quarter



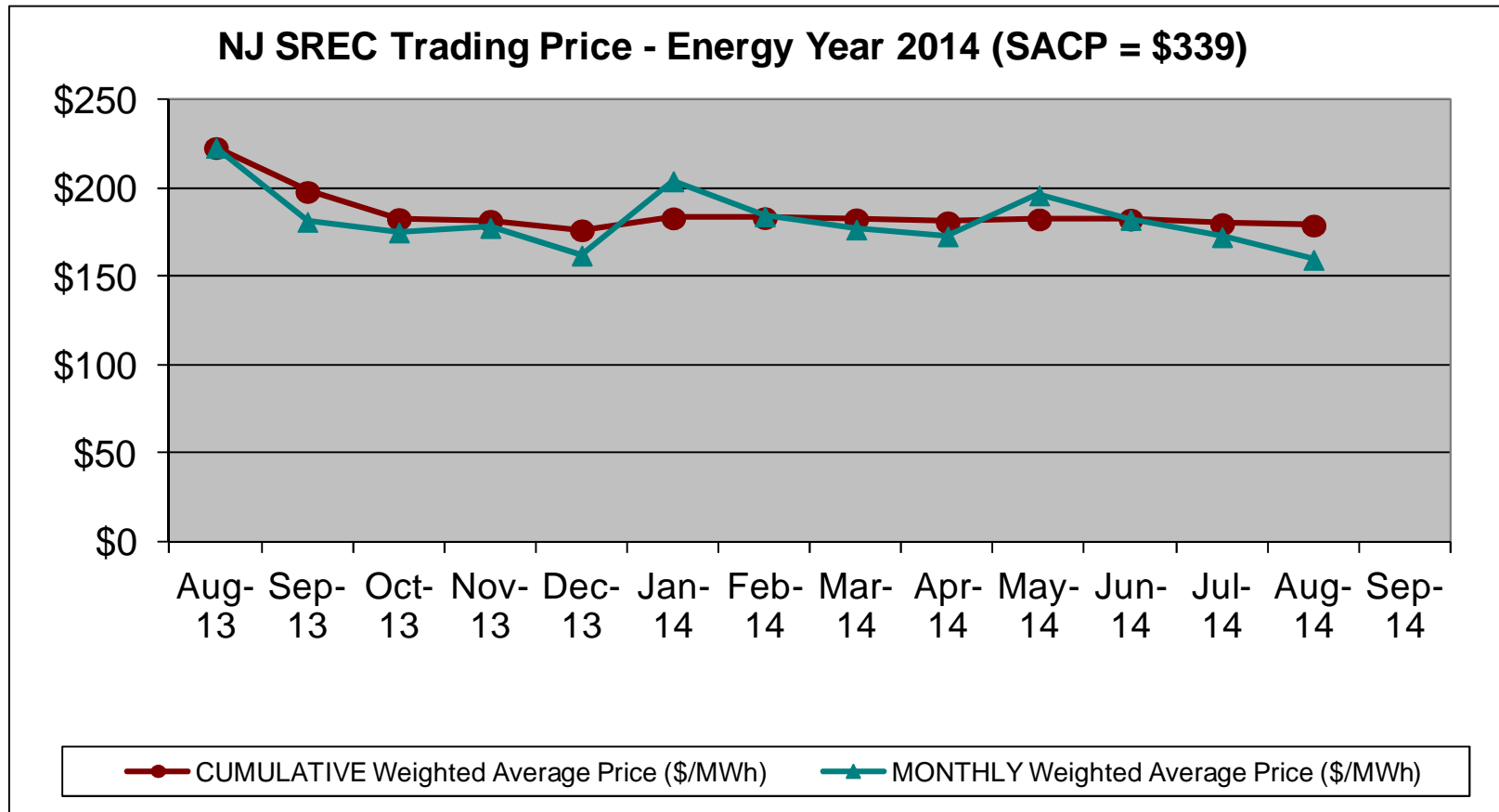


# Current SREC Trading Statistics Energy Year 2014

EY 2014 SACP= \$339			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)
Nov	2014							
Oct	2014							
Sept	2014							
Aug	2014	1,323,920	8,075	91,929	\$ 500	\$ 95	2,217,451	\$179.13
July	2014	1,310,592	29,784	555,764	\$ 600	\$ 40	2,125,522	\$179.96
June	2014	1,272,945	164,586	366,414	\$ 510	\$ 63	1,569,758	\$182.55
May	2014	1,253,664	158,618	127,996	\$ 620	\$ 70	1,203,344	\$182.62
Apr	2014	1,244,225	116,395	188,295	\$ 590	\$ 60	1,075,348	\$181.01
Mar	2014	1,231,702	63,782	94,457	\$ 524	\$ 70	887,053	\$182.69
Feb	2014	1,192,215	55,162	99,400	\$ 524	\$ 70	792,596	\$183.39
Jan	2014	1,179,274	52,207	170,466	\$ 610	\$ 70	693,196	\$183.26
Dec	2013	1,132,176	103,455	143,767	\$ 590	\$ 40	522,730	\$176.45
Nov	2013	1,118,625	91,969	77,064	\$ 510	\$ 70	378,963	\$181.86
Oct	2013	1,113,125	132,960	201,965	\$ 641	\$ 50	301,899	\$182.89
Sept	2013	1,102,916	126,470	59,396	\$ 545	\$ 50	99,934	\$198.19
Aug	2013	1,096,440	121,102	36,469	\$ 545	\$ 50	40,538	\$223.03
July	2013	1,082,498	120,692	4,069	Due to low trade volume, the July trades are reported with the pricing data for August.			
<b>Total</b>			<b>1,345,257</b>	<b>2,217,451</b>				



# Current SREC Trading Statistics Energy Year 2014





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