



Initiation of a Proceeding to Investigate Approaches to Mitigate Solar Development Volatility pursuant to N.J.S.A. 48:3-87(d)(3)(a)

Prepared by Charlie Garrison August 13, 2013 Renewable Energy Meeting Trenton, NJ



Solar Installed Capacity Data

- The installed solar capacity as of 7/31/13 is approximately 1,106 MW.
 - Approximately 12 MW installed in current month.
- The preliminary solar capacity project pipeline as of 7/31/13 is approximately 536.8 MW.
 - The project pipeline decreased approximately
 45 MW in the current month.



NJCEP Solar Installed Projects Plus Pipeline Projects

Preliminary Values As of 7/31/13

Installed Solar Projects

Interconnection Type	Project Qty	Total Capacity (KW DC)	Percent of Capacity	Avg System Size (kW DC)
Behind the meter	22,973	900,499.7	81.4%	39.2
Direct Grid Supply	103	205,440.0	18.6%	1,994.6
Installed Totals	23,076	1,105,939.7	100.0%	47.9

Solar Project Pipeline

Interconnection Type	Project Qty	Total Capacity (KW DC)	Percent of Capacity	Avg System Size (kW DC)
Behind the meter	4,626	158,931.0	29.6%	34.4
Direct Grid Supply	40	377,878.8	70.4%	9,447.0
Pipeline Totals	4,666	536,809.7	100.0%	115.0

Totals For All Projects	27,742	1,642,749.4
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59.2



NJCEP Solar Pipeline Plus Installed Projects History

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As Of	MW Installed	MW Pipeline	Combined MW				
1/31/2012	649.8	548.0	1,197.1				
2/29/2012	688.3	542.3	1,231.4				
3/31/2012	730.0	526.1	1,256.5				
4/30/2012	769.9	510.0	1,279.9				
5/31/2012	802.8	560.7	1,363.5				
6/30/2012	831.8	590.3	1,422.1				
7/31/2012	852.7	756.2	1,608.9				
8/31/2012	876.0	806.9	1,682.9				
9/30/2012	900.8	740.0	1,640.8				
10/31/2012	918.0	738.9	1,656.9				
11/30/2012	943.1	750.3	1,693.4				
12/31/2012	955.5	744.4	1,699.9				
1/31/2013	973.1	731.6	1,704.7				
2/28/2013	1,007.8	702.1	1,709.9				
3/31/2013	1,026.1	702.2	1,728.3				
4/30/2013	1,049.1	687.0	1,736.1				
5/31/2013	1,078.4	677.0	1,755.4				
6/30/2013	1,094.4	582.4	1,676.8				
7/31/2013	1,105.9	536.8	1,642.7				

Preliminary values for 7/31/13

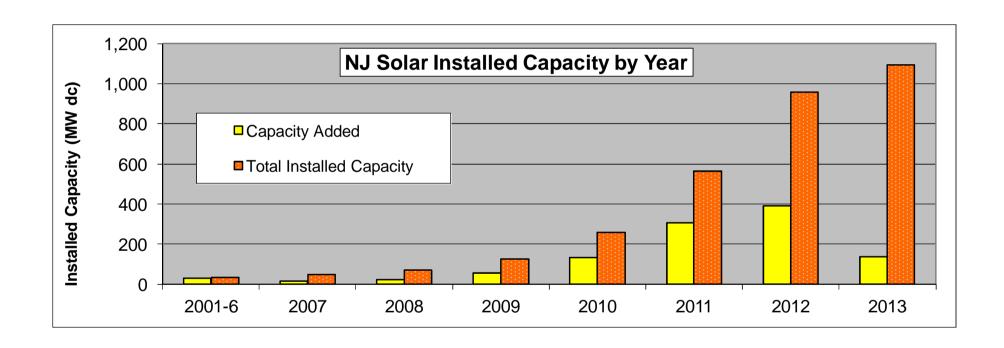


New Jersey Solar Installations by Year As of 06/30/13

Year	# Projects	Total kW	Total Rebate \$
2001	3	7.5	\$ 37,145
2002	37	623.5	\$ 2,424,694
2003	95	1,176.6	\$ 5,323,411
2004	289	2,037.1	\$ 10,581,975
2005	729	9,908.1	\$ 46,235,897
2006	867	18,320.4	\$ 78,086,786
2007	693	15,258.3	\$ 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	5,396	305,204.0	\$ 13,383,747
2012	5,901	390,773.5	\$ 2,389,958
2013	3,246	138,730.5	\$ 8,594
Total	22,569	1,094,388.5	\$ 363,505,461



Solar Installed Capacity



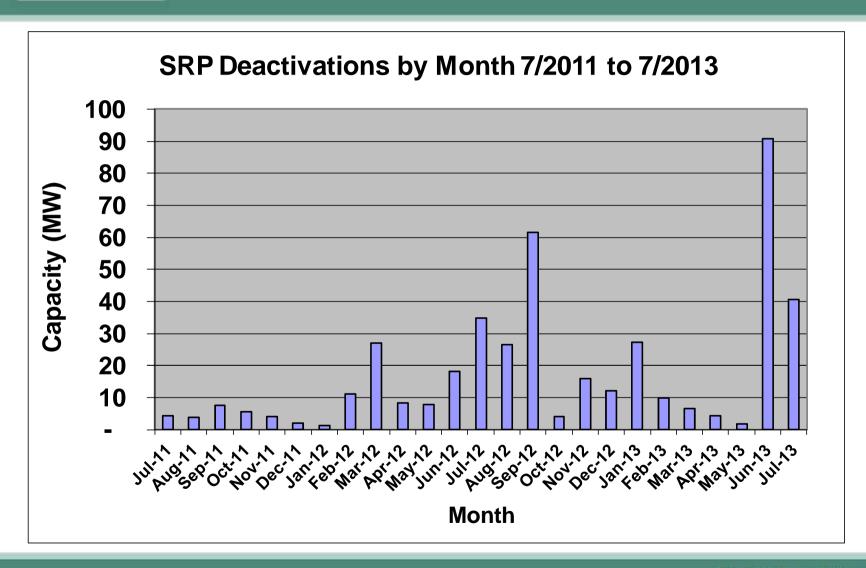


SRP Deactivations by Month

SRP De	eactivations	by Month as	s of 7/31/13
Year	Month End	Project Qty	Capacity (kW)
2012	Mar-12	148	26,946
2012	Apr-12	112	8,291
2012	May-12	129	7,898
2012	Jun-12	107	18,306
2012	Jul-12	216	34,824
2012	Aug-12	140	26,579
2012	Sep-12	338	61,579
2012	Oct-12	30	4,083
2012	Nov-12	342	15,879
2012	Dec-12	132	12,012
2013	Jan-13	133	27,292
2013	Feb-13	143	9,765
2013	Mar-13	176	6,663
2013	Apr-13	76	4,226
2013	May-13	119	1,834
2013	Jun-13	98	90,764
2013	Jul-13	95	40,501
Totals		2534	397,443



SRP Deactivations by Month





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.



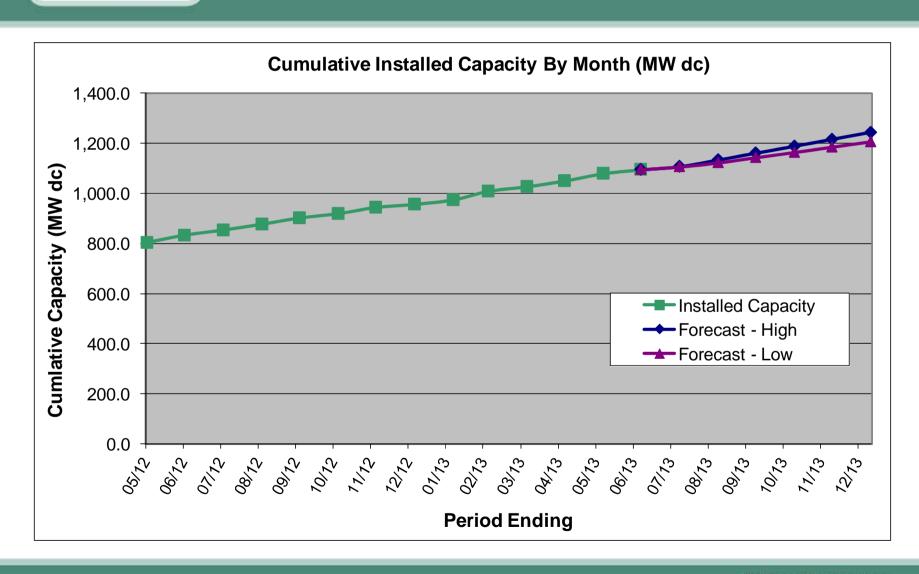
NJCEP Solar Installed Capacity Forecast - As of 6/30/13

Cumulative Installed Capacity (MW dc)										
End Date	nd Date 03/31/13 04/30/13 05/31/13 06/30/13 07/31/13 08/31/13 09/30/13 10/31/13 11/30/13 12/31/13							12/31/13		
Forecast - Low	1,026.2	1,049.3	1,078.6	1,094.4	1,105.4	1,121.4	1,141.8	1,162.4	1,183.2	1,204.2
Forecast - High	1,026.2	1,049.3	1,078.6	1,094.4	1,106.4	1,133.0	1,159.8	1,187.0	1,214.4	1,242.2

The 1,094.4 MW of solar capacity installed as of 06/30/13 is estimated to be capable of producing approximately 1,112,800 to 1,112,800 SRECs during Energy Year 2013.



NJCEP Solar Installed Capacity Forecast - As of 6/30/13





RPS Requirement By Energy Year

Energy Yr	RPS Req	Status
2012	442,000	Actual
2013	596,000	Actual
2014	1,660,500	Estimated
2015	1,984,500	Estimated
2016	2,227,500	Estimated

Energy Yr	Retail Sales Est (MWh)	RPS %	Est RPS Req (MWh)
2014	81,000,000	2.05%	1,660,500
2015	81,000,000	2.45%	1,984,500
2016	81,000,000	2.75%	2,227,500

Note: The Retail Sales estimates shown above were used to estimate RPS MWh requirement for EY 2014-2016



NJCEF	Solar Ge	eneration	Forecast						
Assumptions used in forecast of annual capacity added for each EY									
						Annual Gr			
EY	Low	Med	High	Low	Med	High	Low	Med	High
EY2014	257,512	310,920	339,435	16,626	20,160	21,370	58,000	69,000	83,000
EY2015	271,512	325,920	368,824	16,626	20,160	22,652	72,000	84,000	97,000
EY2016	281,512	336,920	390,132	16,626	20,160	24,011	82,000	95,000	102,000
Capacity added each year = (12 months x BTM monthly run rate) + annual grid supply added									
Low, Me	d, High Assu	ımptions use	d in forecast	t of annual ca	apacity adde	d for each E	Y:		
Low	Based upon	4 year histo	rical run rate	for BTM ins	stalls plus anı	nual additior	ns from grid	supply table	e above
Med	Med Based upon 1 year historical run rate for BTM installs plus annual additions from grid supply table above							e above	
High	Based upon 1 year historical run rate for BTM installs with 6% growth per year plus annual additions from grid supply table above								



NJCEP Solar Generation Forecast Summary By Energy Year - As of 6/30/13

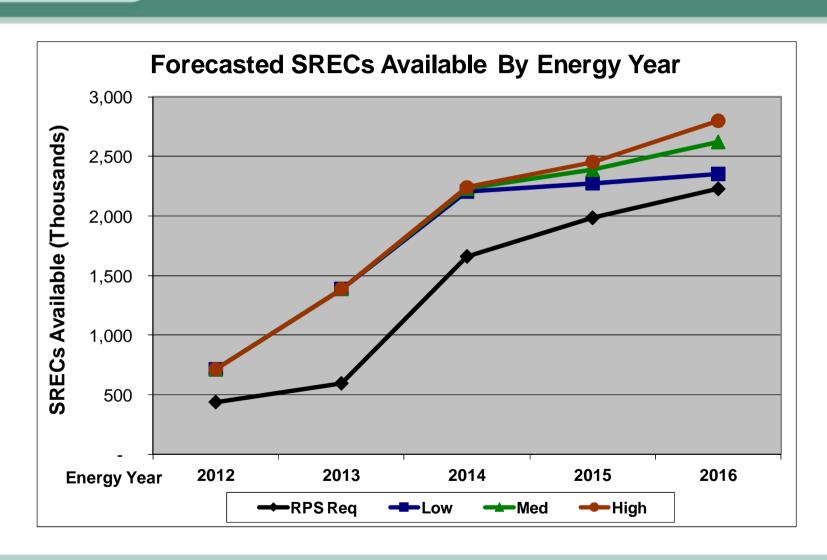
Energy Yr	Item	Low	Med	High
	GATS Cert by Resource Eligibility	713,879	713,879	713,879
EY2012	SRECs Retried (MWh)	438,904	438,904	438,904
_	% of RPS Requirement	161.5%	161.5%	161.5%
(Actual)	SREC Carryover (MWh)	274,975	274,975	274,975
	Equivalent Capacity (MW)	229.1	229.1	229.1
	Est Capacity Added (MW/EY)	279.3	279.3	279.3
	Est Generation (MWh/EY)	1,112,800	1,112,800	1,112,800
	Carryover From Prior Years (MWh)	274,975	274,975	274,975
EY2013	Est Avail (MWh)	1,387,775	1,387,775	1,387,775
L12013	RPS Req (MWh)	596,000	596,000	596,000
	% of RPS Requirement	232.8%	232.8%	232.8%
	SREC Carryover (MWh)	791,775	791,775	791,775
	Equivalent Capacity (MW)	659.8	659.8	659.8
	Est Capacity Added (MW/EY)	257.5	310.9	339.4
	Est Generation (MWh/EY)	1,412,700	1,436,300	1,447,200
	Carryover From Prior Years (MWh)	·	791,775	791,775
EV204.4	Est Avail (MWh)	2,204,475	2,228,075	2,238,975
EY2014	RPS Req (MWh)	1,660,500	1,660,500	1,660,500
	% of RPS Requirement	132.8%	134.2%	134.8%
	SREC Carryover (MWh)	543,975	567,575	578,475
	Equivalent Capacity (MW)	453.3	473.0	482.1



NJCEP Solar Generation Forecast Summary By Energy Year - As of 6/30/13

Energy Yr	Item	Low	Med	High
	Est Capacity Added (MW/EY)	271.5	325.9	368.8
	Est Generation (MWh/EY)	1,730,400	1,819,600	1,873,900
	Carryover From Prior Years (MWh)	543,975	567,575	578,475
EY2015	Est Avail (MWh)	2,274,375	2,387,175	2,452,375
L12013	RPS Req (MWh)	1,984,500	1,984,500	1,984,500
	% of RPS Requirement	114.6%	120.3%	123.6%
	SREC Carryover (MWh)	289,875	402,675	467,875
	Equivalent Capacity (MW)	241.6	335.6	389.9
	Est Capacity Added (MW/EY)	281.5	336.9	390.1
	Est Generation (MWh/EY)	2,062,800	2,217,900	2,330,400
	Carryover From Prior Years (MWh)	289,875	402,675	467,875
EY2016	Est Avail (MWh)	2,352,675	2,620,575	2,798,275
E12010	RPS Req (MWh)	2,227,500	2,227,500	2,227,500
	% of RPS Requirement	105.6%	117.6%	125.6%
	SREC Carryover (MWh)	125,175	393,075	570,775
	Equivalent Capacity (MW)	104.3	327.6	475.6





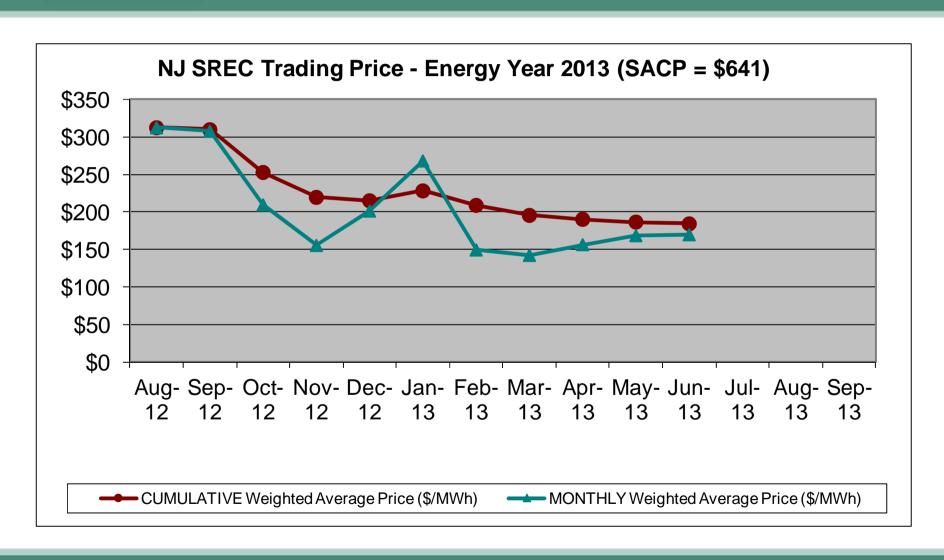


Current SREC Trading Statistics Energy Year 2013

EY 2	2013 SA	CP= \$641	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)
Jun	2013	1,060,377	157,361	145,381	\$	641	\$	50	1,041,630	\$184.28
May	2013	1,028,642	137,672	150,287	\$	613	\$	50	896,249	\$186.66
Apr	2013	996,762	96,105	100,390	\$	640	\$	40	745,962	\$190.31
Mar	2013	977,249	61,194	128,898	\$	641	\$	68	645,572	\$195.57
Feb	2013	941,765	55,566	126,629	\$	620	\$	40	516,674	\$208.88
Jan	2013	930,712	47,642	96,603	\$	641	\$	40	390,045	\$228.20
Dec	2012	907,618	65,933	72,070	\$	620	\$	40	293,442	\$215.06
Nov	2012	896,059	60,244	75,602	\$	658	\$	60	221,372	\$219.56
Oct	2012	876,406	90,783	82,813	\$	658	\$	40	145,770	\$252.81
Sept	2012	860,298	106,498	34,124	\$	650	\$	50	62,957	\$309.77
Aug	2012	845,492	101,993	21,510	\$	620	\$	50	28,833	\$312.37
Jul	2012	824,082	95,855	7,323	Due to low trade volume, the July trades are reported with the pricing data for August.					



Current SREC Trading Statistics Energy Year 2013





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