



# Pennsylvania Update

MSSIA – 3rd Qrtly Mtg  
October 25, 2023  
(Updated 10/27/2023)





Ron Celentano , VP - Pennsylvania

# Solar Update Highlights in PA – 10/27/2023

- Current in-state solar PV capacity in PA is **1,178 MW<sub>DC</sub>**, from a total of 47,926 systems, as of 10/27/2023.
- PJM Queue for PA – 23.6 GW (541 applications: Active, Engineering/Procurement, and Under Construction-including in partial service), of which 13 projects totaling 488 MW are under construction.
- Largest solar PV facility in PA, 129 MW<sub>DC</sub> (108 MW<sub>AC</sub>), certified and partially in service on 10/17/2023.
- RW4PA, particularly PA Solar Center, coordinated a lobby day in Harrisburg on October 17, 2023 – succeeded in picking up several more co-sponsors on HB1467 – which is currently at 38.
- Still no movement on the community solar bill SB550, and only some slight traction on the AEPS bill HB1467 (which includes community solar).
- MAREC is soon to release an impact study on the AEPS bills SB230/HB1467, which was conducted by Gabel Assoc.
- Senator Boscola circulated co-sponsor memo – intending on introducing another expansion of the AEPS, but with much lower Tier 1 and solar goals than SB230 and HB1467; it does not include community solar; the bill will also include language revising current net meter in PA, limiting the PV capacity to 110% of annual load generation; also expanding the 2 mile radius under virtual meter aggregation to the EDC boundary lines, but possibly limiting its application in other ways.
- Representative Schweyer circulated co-sponsor meme – intending on introducing another community solar bill; not much detail available.

- Including Additional Listing of Memos – PASSIA -

## Quick Reference Guide for Key Bills

Guide	Bill #	Prime Sponsors	History
<b>INCREASING RENEWABLE ENERGY GOALS</b>			
<b><i>Increases Renewable Goals in the AEPS to 30% with 14% Solar by 2030 and Enables Community Solar</i></b>			
	<a href="#"><u>SB 230</u></a>	Steven Santarsiero (D-Bucks County)	Referred to the Senate Consumer Protection and Professional Licensure Committee, March 15, 2023
	<a href="#"><u>HB 1467</u></a>	Danielle Friel Otten (D-Chester County)	Referred to the House Environmental Resources and Energy Committee, June 21, 2023
<b><i>Increases Renewable Goals in the AEPS to 15% with 5.5% Solar by 2032 No Community Solar Mentioned; Revisions to Net Metering</i></b>			
	<a href="#"><u>MEMO</u></a>	<b>Prime:</b> Sen. Lisa Boscola (D-Lehigh/Northampton Counties)	Memo circulated on October 3, 2023

[https://pasolarcenter.org/wp-content/uploads/2023/07/PA-State-Solar-Legislative-Guide.2023-2024\\_updated\\_07182023.pdf](https://pasolarcenter.org/wp-content/uploads/2023/07/PA-State-Solar-Legislative-Guide.2023-2024_updated_07182023.pdf)



- Favorable for solar






- Some possible benefit or PA Solar Center Neutral



- Possibly Unfavorable



- Continued -

COMMUNITY SOLAR/SHARED SOLAR			
<i>Enables Community or Shared Solar Programs in Pennsylvania</i>			
	<a href="#"><u>SB 550</u></a>	<b>Prime:</b> Rosemary Brown (R-Lackawanna, Monroe and Wayne Counties)	Referred to the Senate Consumer Protection and Professional Licensure Committee, April 13, 2023
	<a href="#"><u>MEMO</u></a>	<b>Prime:</b> Aaron Kaufer (R-Luzerne County) and Joseph Hohenstein (D-Philadelphia County)	Memo circulated on April 10, 2023 ( <i>likely a companion bill to SB 550</i> )
	<a href="#"><u>HB 330</u></a>	<b>Prime:</b> Perry Stambaugh (R-Perry, Juniata Counties)	Referred to the House Consumer Protection, Technology and Utilities Committee, March 13, 2023
	<a href="#"><u>MEMO</u></a>	<b>Prime:</b> Daniel Laughlin (R-Erie County)	Memo circulated on March 24, 2023 ( <i>likely a companion bill to SB 330</i> )
	<a href="#"><u>MEMO</u></a>	<b>Prime:</b> Rep. Peter Schweyer (D-Lehigh County)	Memo circulated on September 15, 2023



- Continued -

## SOLAR FOR SCHOOLS

### *Allocates Grant Funding for Schools to go Solar*



[HB 1032](#)

**Prime:** Elizabeth Fiedler  
(D-Bradford, Philadelphia  
County)

Final House passage (Y-134; N-69), June  
29, 2023. Awaiting action in the Senate.

[MEMO](#)

**Prime:** Vincent Hughes  
(D-Montgomery and  
Philadelphia Counties) &  
Carolyn Comitta  
(D-Chester County)

Memo circulated on April 13, 2023 (*likely  
a companion bill to HB 1032*)

## DECOMMISSIONING AND BONDING OF SOLAR ENERGY PROJECTS

### *Requires decommissioning plans and financial assurances*



[SB 211](#)

**Prime:** Gene Yaw  
(R-Bradford, Lycoming,  
Sullivan, Tioga and Union  
Counties)

Final Senate passage (Y-36; N-13), March  
8, 2023. Referred to the House  
Environmental Resources and Energy  
Committee, April 25, 2023



[HB 925](#)

**Prime:** Kathy Rapp  
(R-Warren, Crawford and  
Forest Counties)

Referred to the House Environmental  
Resources and Energy Committee, April  
25, 2023



- Favorable for solar



- Some possible benefit or PA Solar Center Neutral

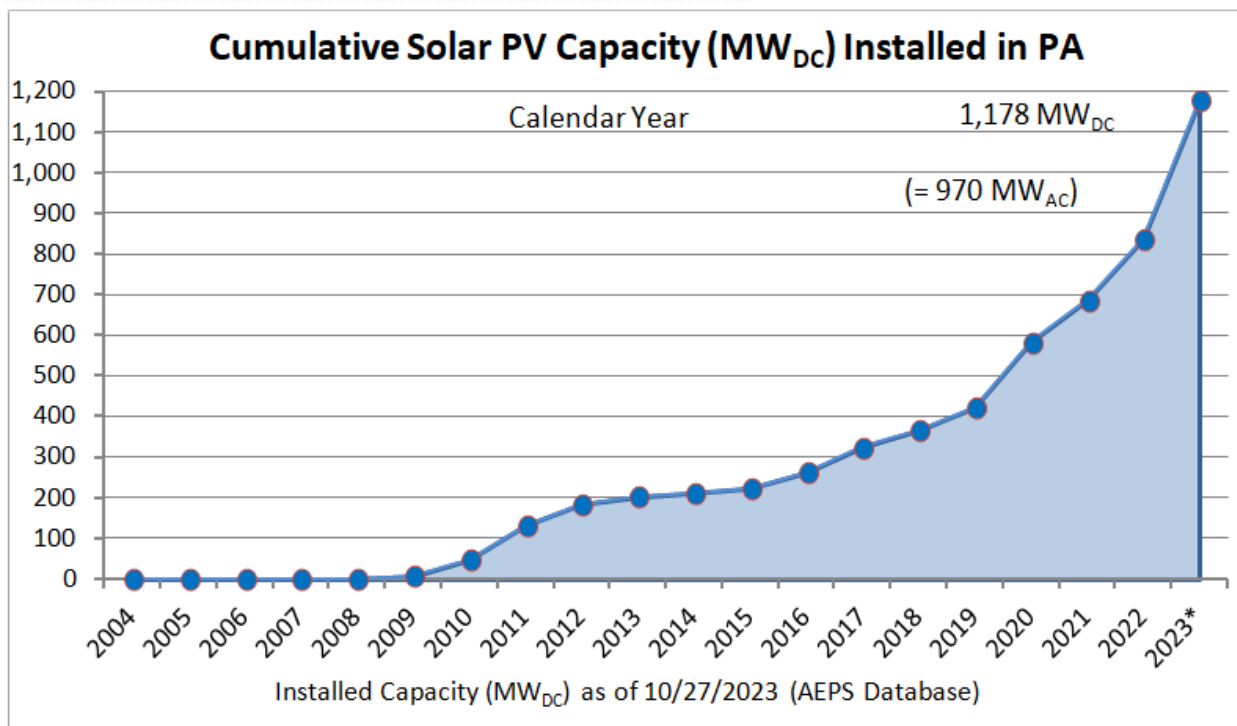
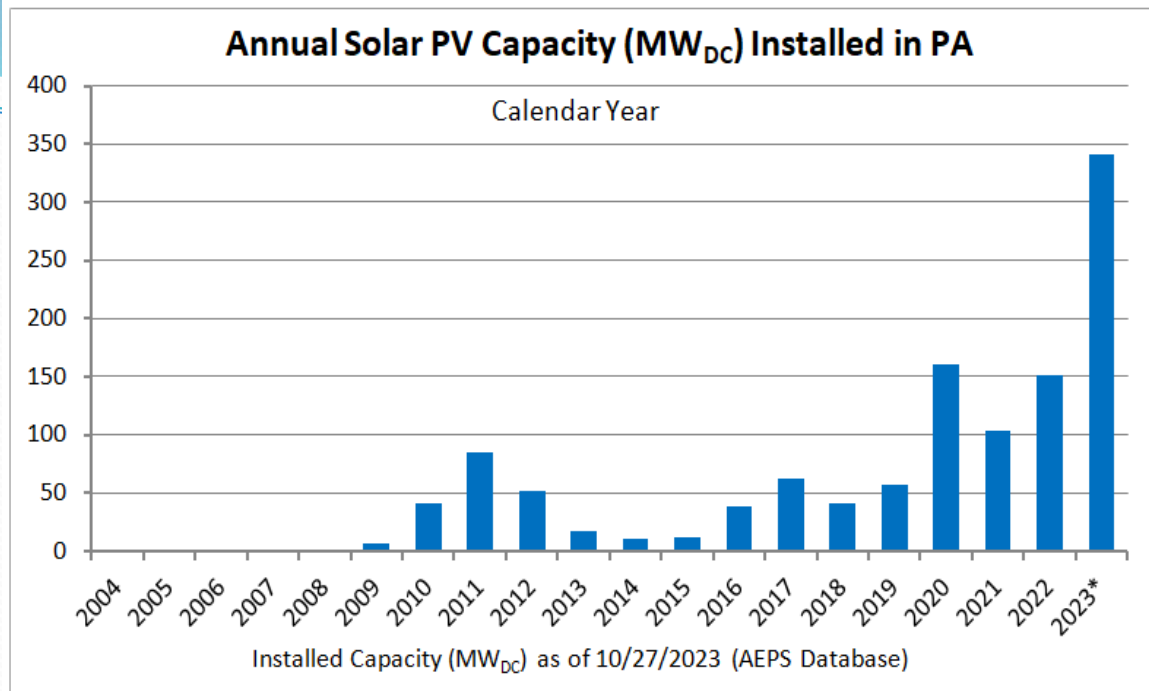


- Possibly Unfavorable

# PV Capacity in PA

## Annual & Cumulative

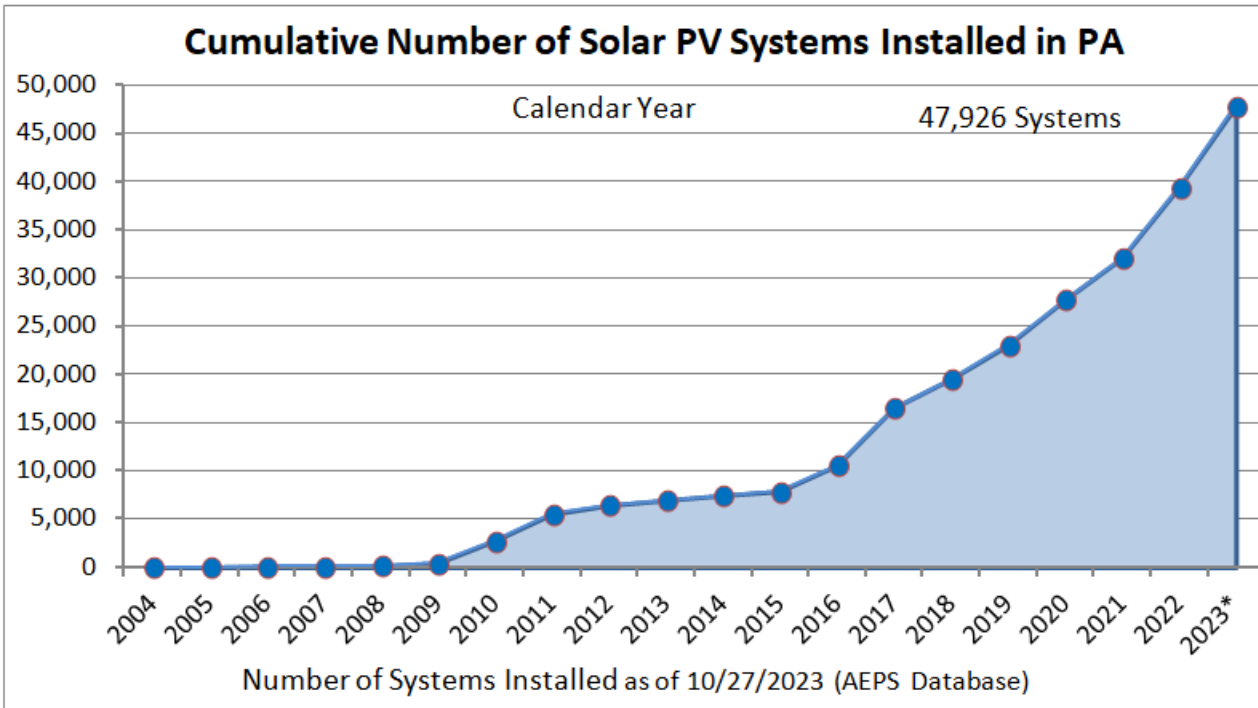
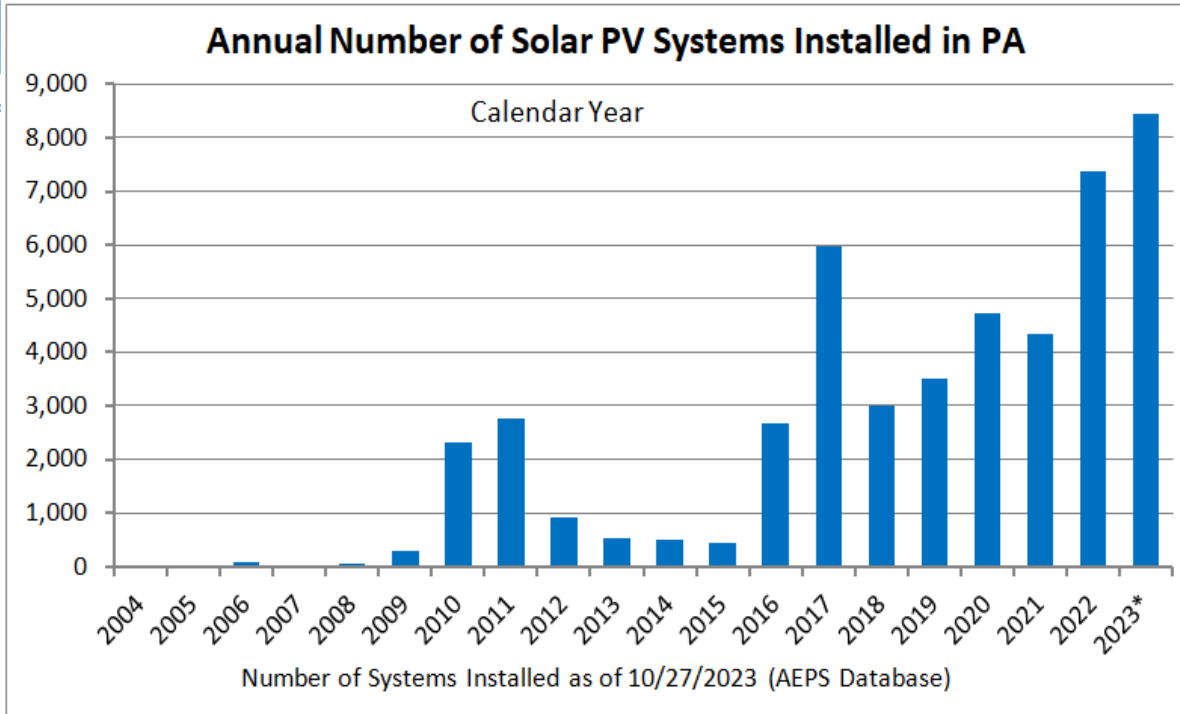
As of 10/27/2023



SEIA reports 1,195 MW installed through Qrt 2-2023



# Number of PV Systems in PA Annual & Cumulative As of 10/27/2023



SEIA reports 61,281 systems  
installed through Qrt 2-2023

# Breakdown Of PV Installations in PA

## Last Year

Cumulative PV Installed in PA		
Capacity (DC)	# of Systems	Total MW
≤ 15 kW	28,189	225
> 15 kW to ≤ 250 kW	4,700	153
> 250 kW to ≤ 1 MW	175	86
> 1 MW to ≤ 3 MW	47	75
> 3 MW to ≤ 5 MW	14	52
> 5 MW to ≤ 10 MW	1	6
> 10 MW	6	114
Total	33,132	711

\* as of 3/12/2022 as per PA AEPS (PUC)

Cumulative PV Installed in PA		
Capacity (DC)	# of Systems	Total MW
≤ 15 kW	40,102	331
> 15 kW to ≤ 250 kW	7,535	222
> 250 kW to ≤ 1 MW	204	100
> 1 MW to ≤ 3 MW	55	86
> 3 MW to ≤ 5 MW	16	60
> 5 MW to ≤ 10 MW	2	14
> 10 MW	12	366
Total	47,926	1,178

\* as of 10/27/2023 as per PA AEPS (PUC)

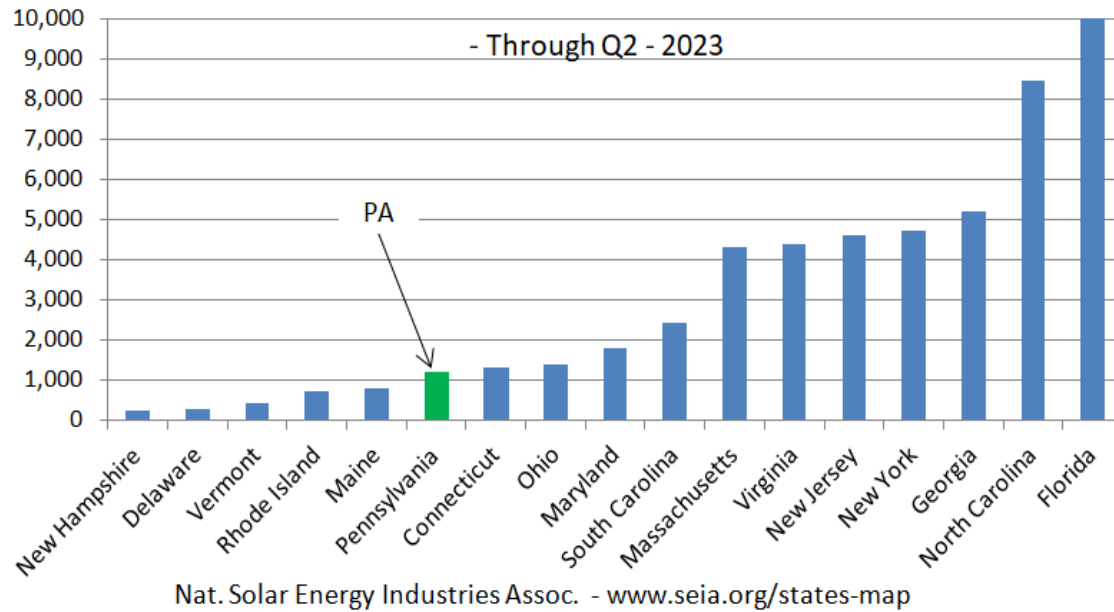
## Since March 2022: 85 MW Grid Scale

> 3 to ≤ 5 MW : 2 Projects, 8 MW  
 > 5 to ≤ 10 MW : 1 Projects, 8 MW  
 > 10 MW : 6 Projects, 252 MW



# Solar in Other East Coast States Compared to PA

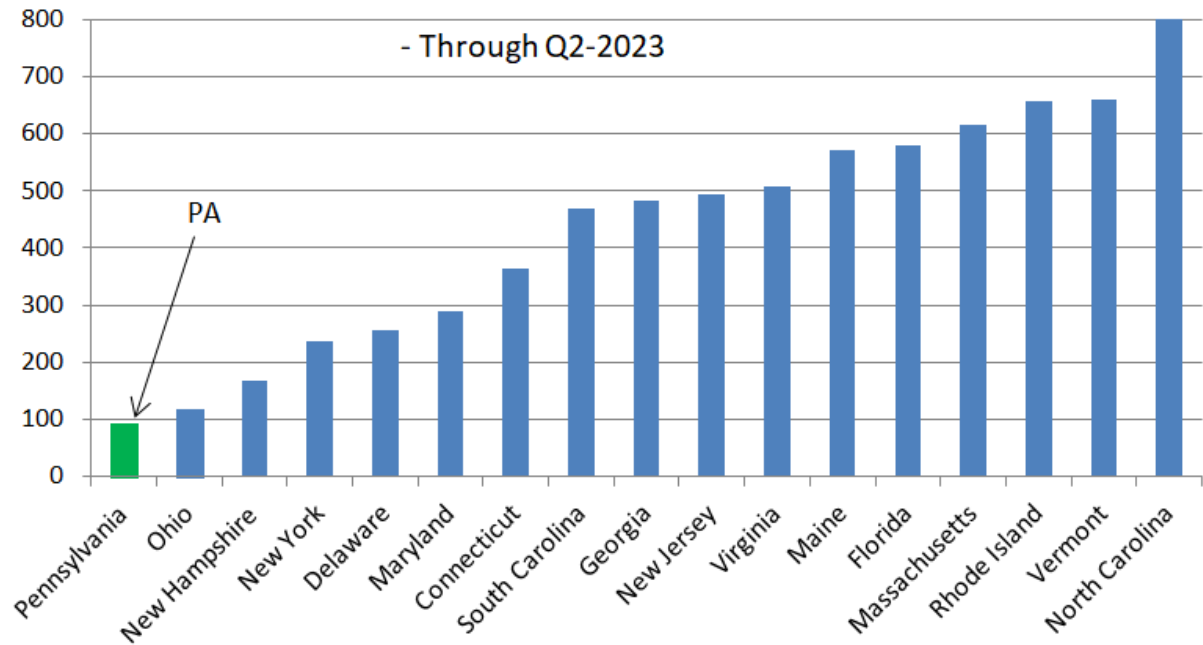
**Total Solar Capacity (MW<sub>DC</sub>) Installed by State on the East Coast**



## Solar in Pennsylvania Ranks 17th in the Nation

Wood Mackenzie/SEIA US Solar Market Insight – Qrt 1, 2023

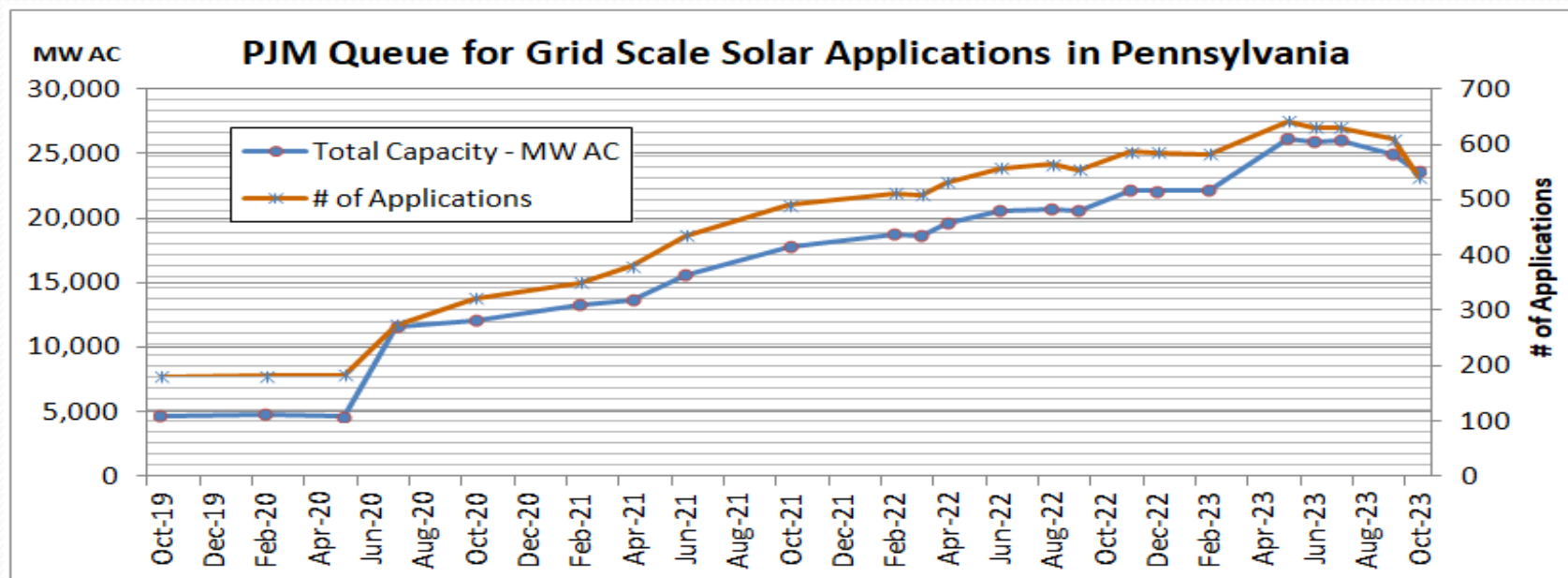
**Total Solar PV Installed per Capita (MW<sub>DC</sub>/Million)**



# PJM Queue for PA Solar Applications

PJM Queue for PA		As of 10/25/2023			
Status	# of Apps	Max Facility Output (MFO)			Total Cap IC Queue Position
		Total Cap AC MW	Capacity Range		
			Min	Max	
Active	448	20,891	1.0	300.0	3,246
Engineering/Procurement	79	2,147	2.0	120.0	1,105
Under Construction	13	508	13.8	150.0	307
Part in Srvc - Under Const	1	100	100.0	100.0	60
Sub-Total	541	23,646			4,719
In Service	20	327	3.3	20.0	103
Grand Total*	561	23,973			4,822

\* Total Applications categorized as "Solar & Storage" = 105



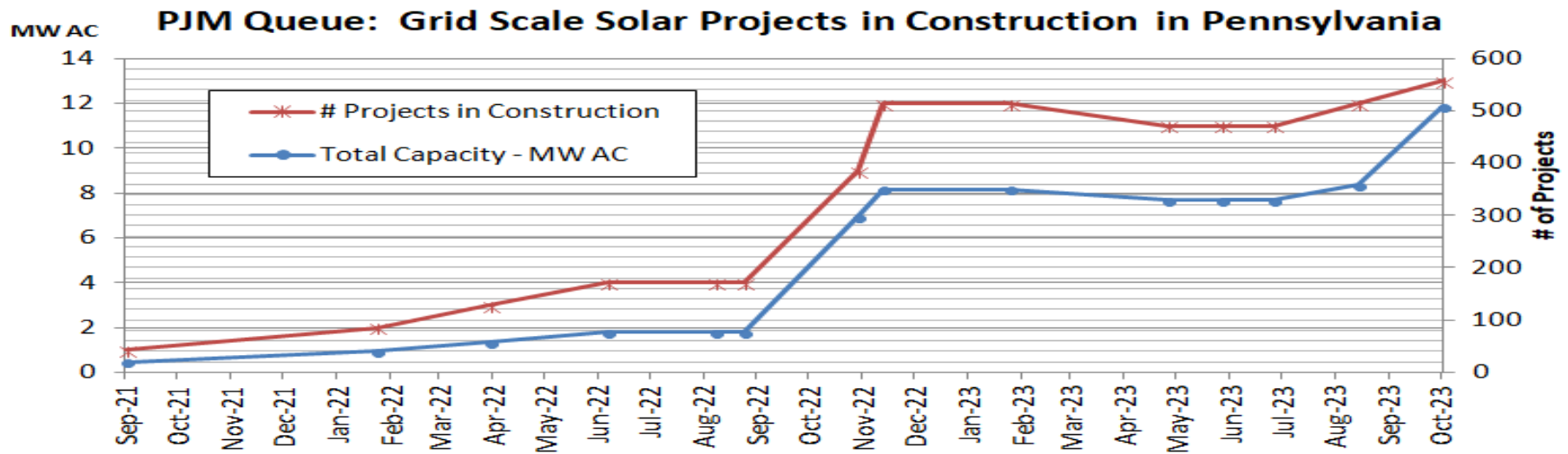
# PJM Queue for PA Solar Facilities - Under Construction

Projects Currently Under Construction - Solar PV Facilities in PA (10/25/2023)

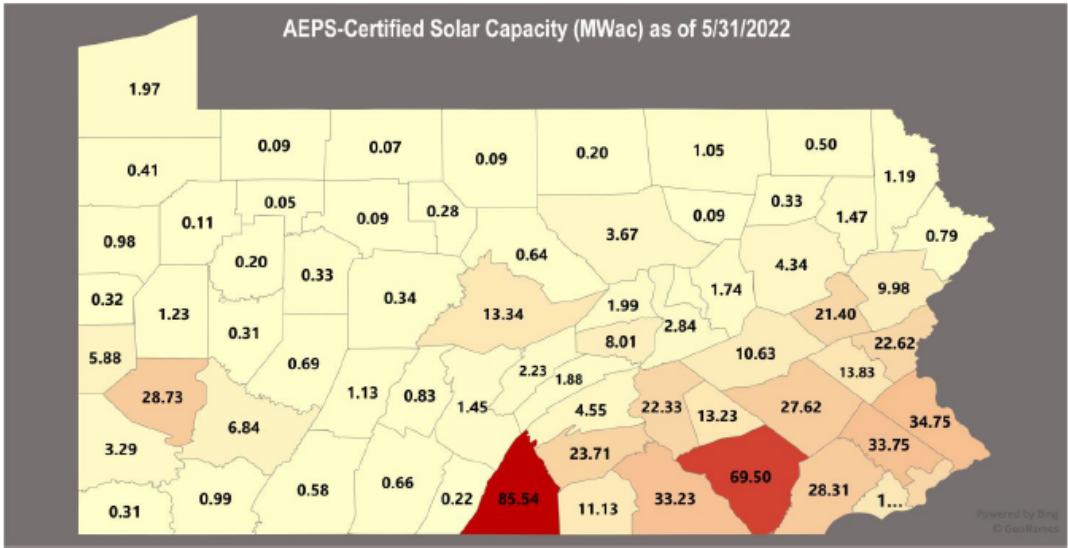
Queue #	Name	Commercial Name	State	County	Transmission Owner	MFO Capacity MW	
AD1-020	Hunterstown-Lincoln 115 kV	Adams Solar LLC	PA	Adams	ME	100	x
AD2-009	McConnellsburg 138 kV	Great Cover Solar LLC	PA	Fulton	APS	70.0	xxx
AD2-115	Lyons-Moselem 69kV	Lyons Solar	PA	Berks	ME	20.0	xx
AD2-116	Hokes-Grantley 69 kV	Cottontail Solar 2	PA	York	ME	20.0	xxx
AE1-101	McConnellsburg-Texas Eastern 1	Great Cove Solar II	PA	Franklin	APS	150.0	x
AE1-185	Hokes-Jackson 69 kV	Cottontail Solar 1	PA	York	ME	20.0	xxx
AE1-196	Hokes-Jackson 69 kV II	Cottontail Solar 8	PA	York	ME	20.0	xxx
AE2-059	Derry Tap-Derry Bus 69 kV	Cottontail Solar 4 aka East Chil	PA	Northumberland	PPL	20.0	xx
AE2-060	Mifflintown Bus-Mifflintown Tap	Cottontail Solar 5 aka Walker S	PA	Juniata	PPL	20.0	xxx
AE2-114	Midland 23 kV I	BE-PINE 1 Cain Road	PA	Beaver	DL	17.1	xxx
AE2-115	Midland 23 kV II	BE-PINE 2 Dam Road	PA	Beaver	DL	17.1	xxx
AE2-125	Stahlstown-Ligonier 25 kV	Stahlstown-Ligonier 25 kV	PA	Westmoreland	APS	13.8	xxx
AE2-133	Penns Tap-Richfield Tie 69 kV	Penn Solar (Cottontail 6)	PA	Snyder	PPL	20.0	xx
Total						488.0	

In Service in 2023

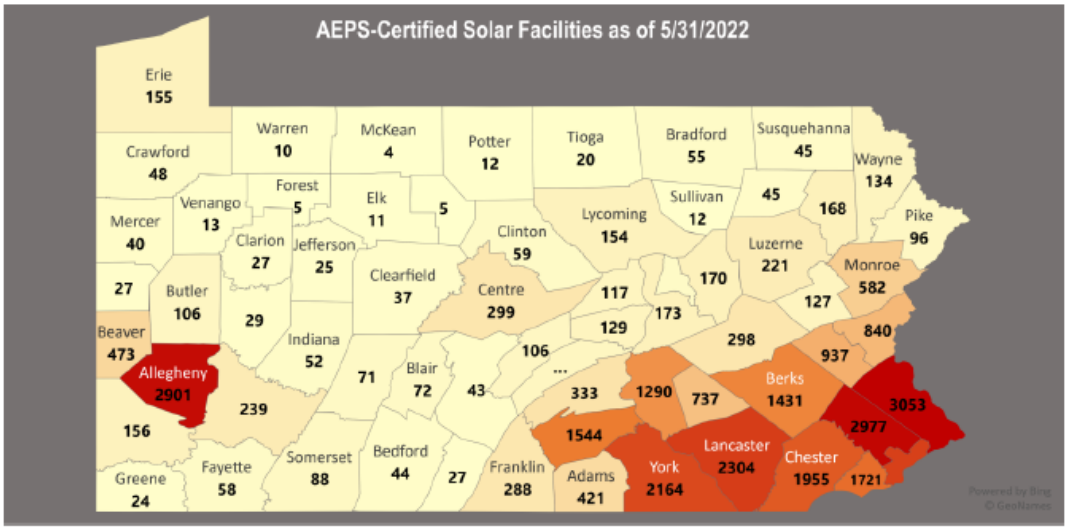
AE2-129	Philipsburg-Clarence 34.5 kV	Philipsburg-Clarence 34.5 kV	PA	Clearfield	PENELEC	20	1/28/2023
AE2-126	Dubois-Curwensville 34.5 kV	CL-Viaduct	PA	Clearfield	PENELEC	20	3/23/2023
AF2-184	McConnellsburg-Mercersburg 34 kV II		PA	Franklin	APS	20	5/1/2023
AC2-168	Clinton 23kV	Gaucha Solar	PA	Washington	DL	11.7	6/29/2023
AD1-135	Clinton 23 kV II	Gaucha Solar	PA	Washington	DL	20	6/29/2023
AE2-224	Bearrock-Johnstown 230 kV	CPV Maple Hill Solar	PA	Cambria	PENELEC	14 --> 100	10/17/2023



# AEPS Report 2022 – Observations on Solar Resources



Note: As of 5/31/2022, the AEPS certified solar generation capacity was 12.55 MWac in Delaware County and 21.94 MWac in Philadelphia County.



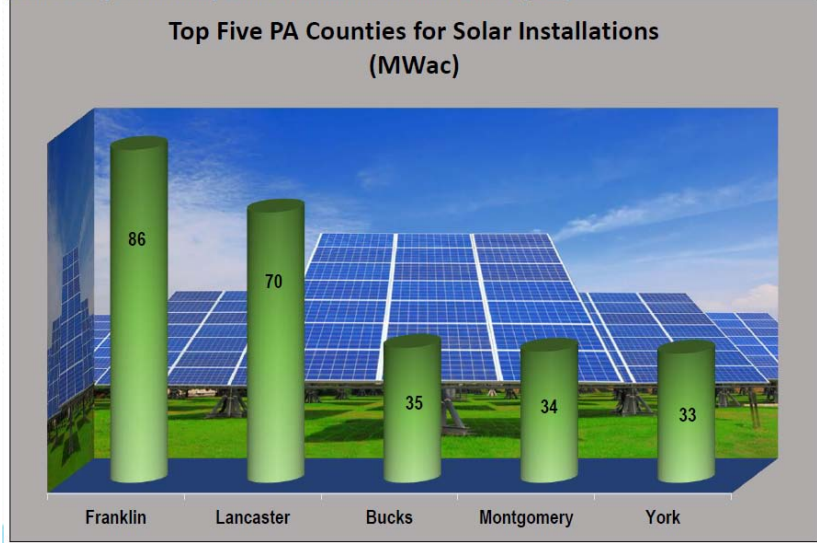
Note: As of 5/31/2022, Philadelphia County has 2,277 AEPS certified solar generation facilities.

0.5% Solar PV Requirement = 525.0 MW<sub>AC</sub> Solar PV Capacity

534.4 MW<sub>AC</sub> had been installed in PA by 5/31/2021

Currently, 970 MW<sub>AC</sub> is installed (as of 10/27/2023), or the solar share = 0.92%

Chart 12: Top Five Pennsylvania Counties for Installed Solar Capacity

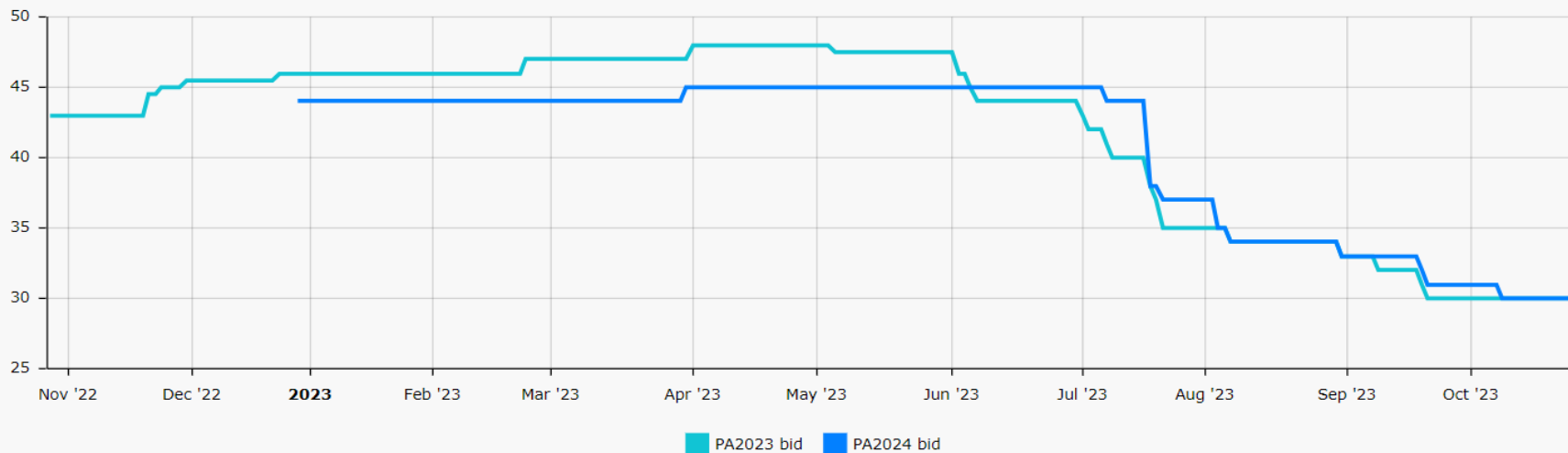


# Current & Historic PA SREC Prices

PA

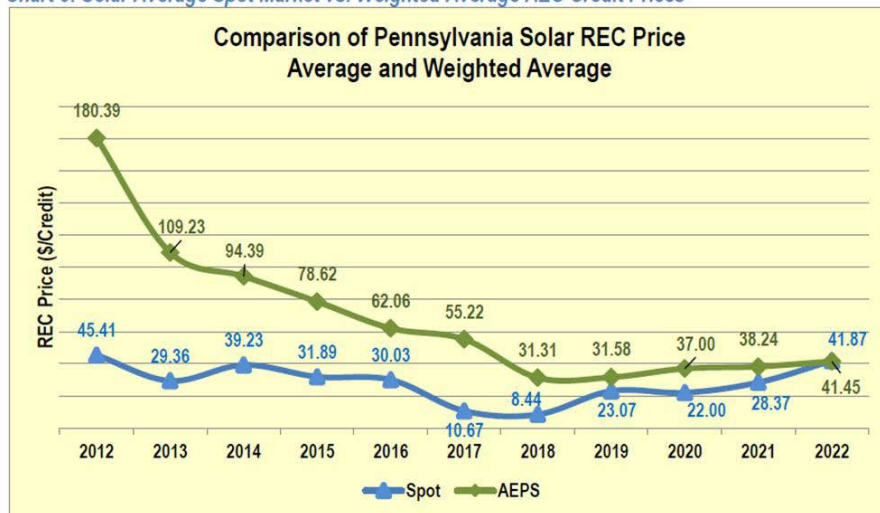
Latest Bid Price: \$30.00

Bid Prices for PA - Last Twelve Months (LTM)



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Chart 6: Solar Average Spot Market vs. Weighted Average AEC Credit Prices



**Current PA SACP = \$82.90/SREC**



# PA Utility Solar Incentive Programs for C&I Customers

Four utilities currently provide an incentive for solar projects for commercial customers, including schools, under their Act 129 energy efficiency plans. PECO, Duquesne Light Company (DLC), First Energy (including Met-Ed, Penn Power, Penelec and West Penn Power) and PPL have announced solar incentives in their current Act 129 plans. Most of them require the project meets a minimum Total Resource Cost Test (“TRC”) value. The utilities will reimburse commercial/industrial customers for every solar kWh generated and used on site for the first 12-month period.

Utility	Payment per kWh	Min TRC Requirement	For solar systems put in service	Cap
PECO	\$0.10	May not apply	1/1/23 - 5/31/26	Must not exceed system cost
DLC - Duquesne	\$0.05	0.90 is acceptable	Uncertain	Up to 90% of system costs, capped at \$500,000
First Energy	\$0.03	0.85	1/1/23 - 5/31/26	Up to 50% of system costs, capped at \$500,000
PPL	\$0.03	0.85	1/1/23 - TBD	Up to 50% of system costs, capped at \$500,000

*Note: Utility program availability & incentive levels are subject to change without prior notice.*