



Pennsylvania Update

MSSIA – 1st Qrtly Mtg
February 13, 2025

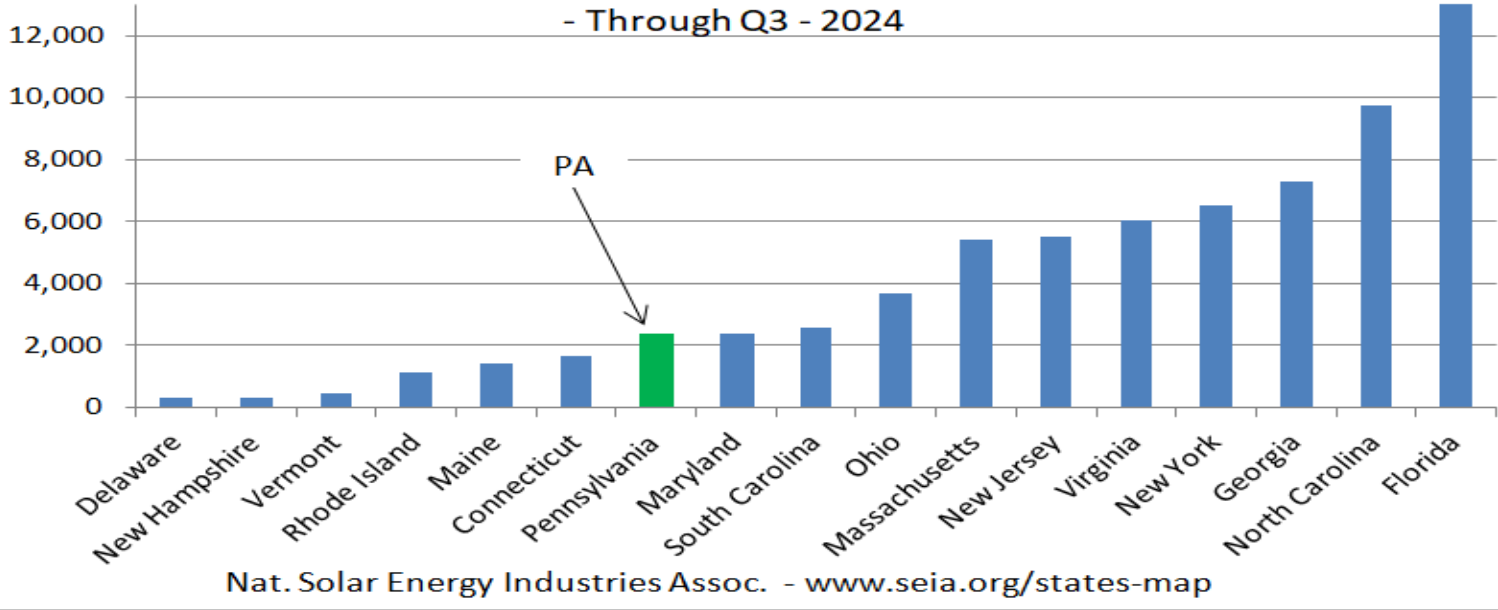


Ron Celentano , VP - Pennsylvania

Solar Update Highlights in PA – 2/13/2025

- Current in-state solar PV capacity in PA is **2,143 MW_{DC}**, from a total of 69,437 systems, as of 2/12/2025.
- PJM Queue for PA – 15.5 GW (304 applications: Active, Engineering/Procurement, and Under Construction-including in partial service).
- Community Solar Bill – Rep. Schweyer will probably be introducing the community solar bill this spring; some revisions to the previous House Bill 1842 are in play, such as guaranteed savings, consolidated billing, and some other details.
- PA PUC Technical Conference on Resource Adequacy held early January, 2025 – Pertaining to: hockey stick rise of electricity consumption from new data centers, electrification, increasing DER adoption, growth of EV penetration, and at the same time - the projected retirement of some conventional electric generation plants.
- Governor Josh Shapiro reached an agreement with PJM to prevent unnecessary price hikes; he worked with PJM to significantly lower the capacity auction price cap – from over \$500/Megawatt-Day to \$325/MW-Day – averting a runaway auction price that would have unnecessarily increased energy bills.
- Today Governor Shapiro announced the filing of a lawsuit against the Trump administration's unconstitutional freeze of \$1.2 billion in Congressionally appropriated federal funds to Pennsylvania programs and organizations
- Solar For Schools Program – application phase closed on Jan 31, 2025; 88 applications received across over 50 school districts, requesting \$88M in grants from a budget of only \$25M. Awards are expected to be announced in May.
- PA Reliable Energy Sustainability Standard (**PRESS**) – Amendment language is still being worked out. Might be introduced in spring or in the fall.
- Continuing concerns with escalating merchant generator Interconnection applications submissions; hoping to avoid broad net metering reform.
- 11th Annual PA Renewable Energy Summit, 3/24/2025, in Camp Hill, PA (near Harrisburg); Lobby day on 3/25/2025.
- PECO Solar Collaborative Meeting, 2/21/2025, 9am – 1:30; Upper Darby, PA (contact Ron Celentano for more info)

Total Solar Capacity (MW) Installed by State on the East Coast

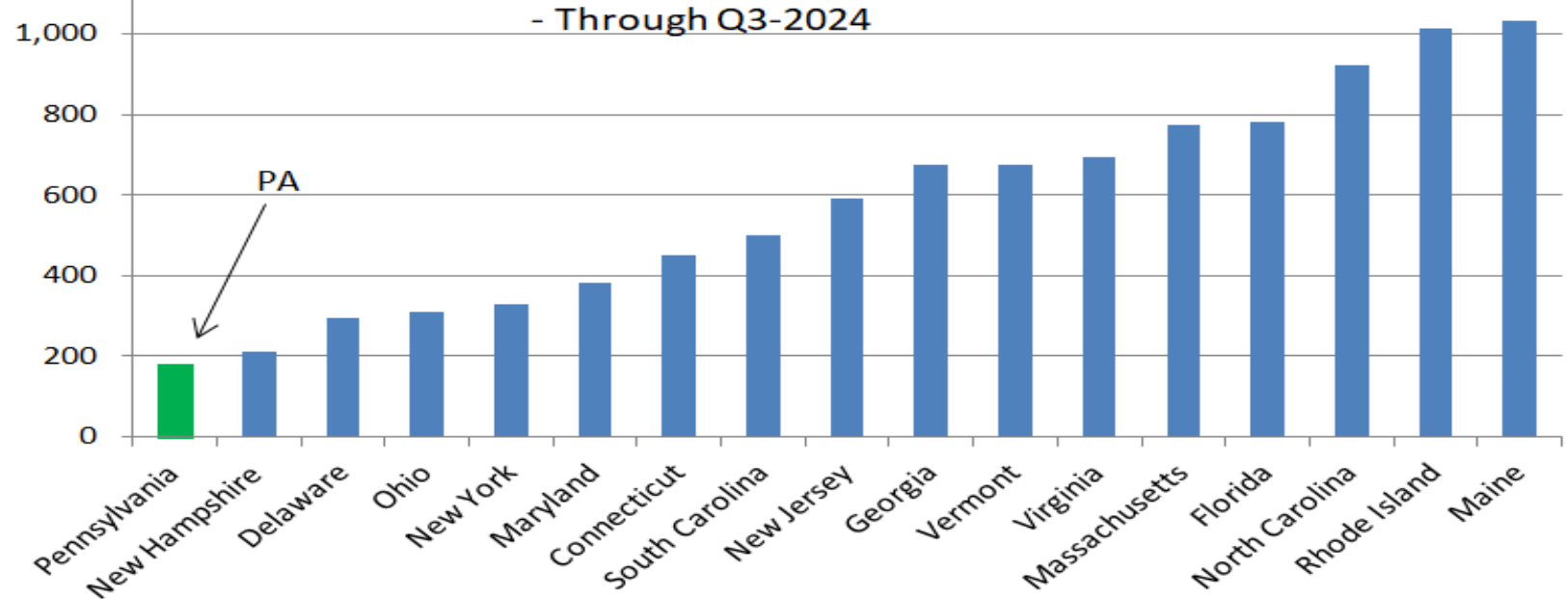


Solar in Other East Coast States Compared to PA

Solar in Pennsylvania Ranks 22nd in the Nation

SEIA - Qrt Q3, 2024

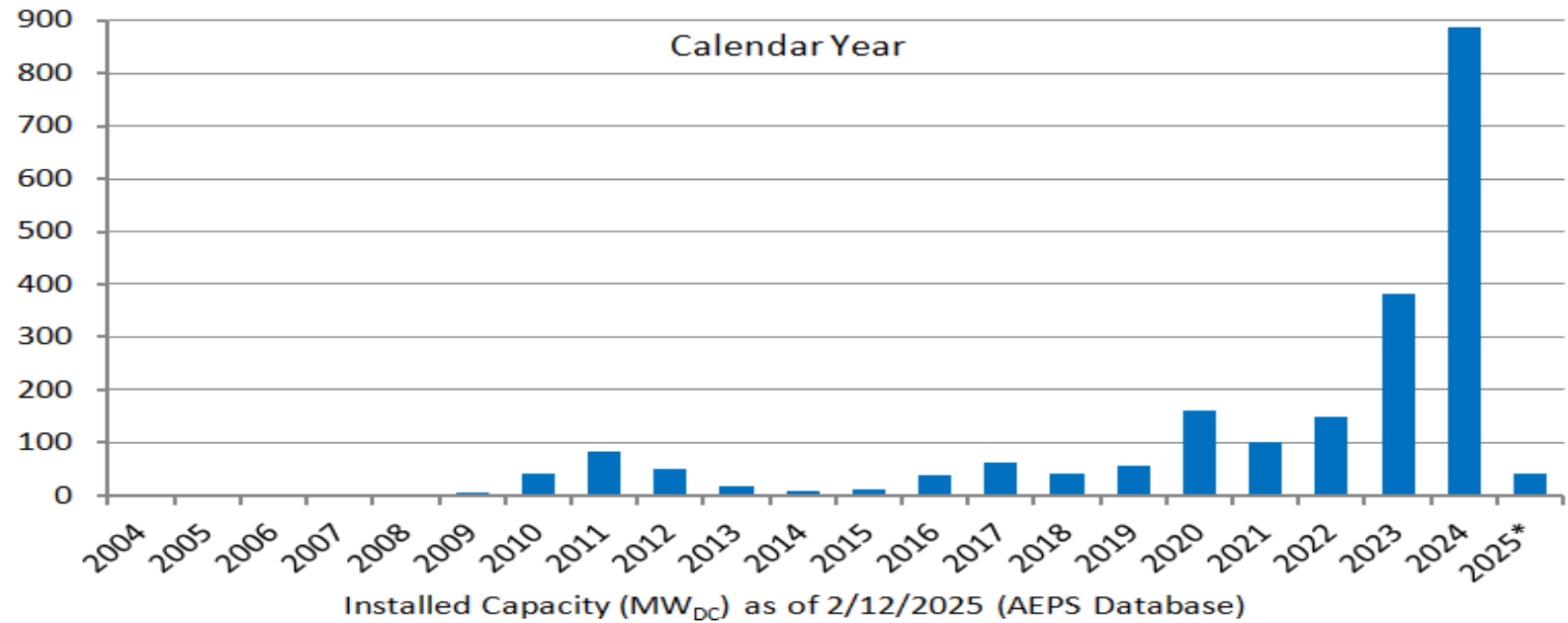
Total Solar PV Installed per Capita (MW/Million)



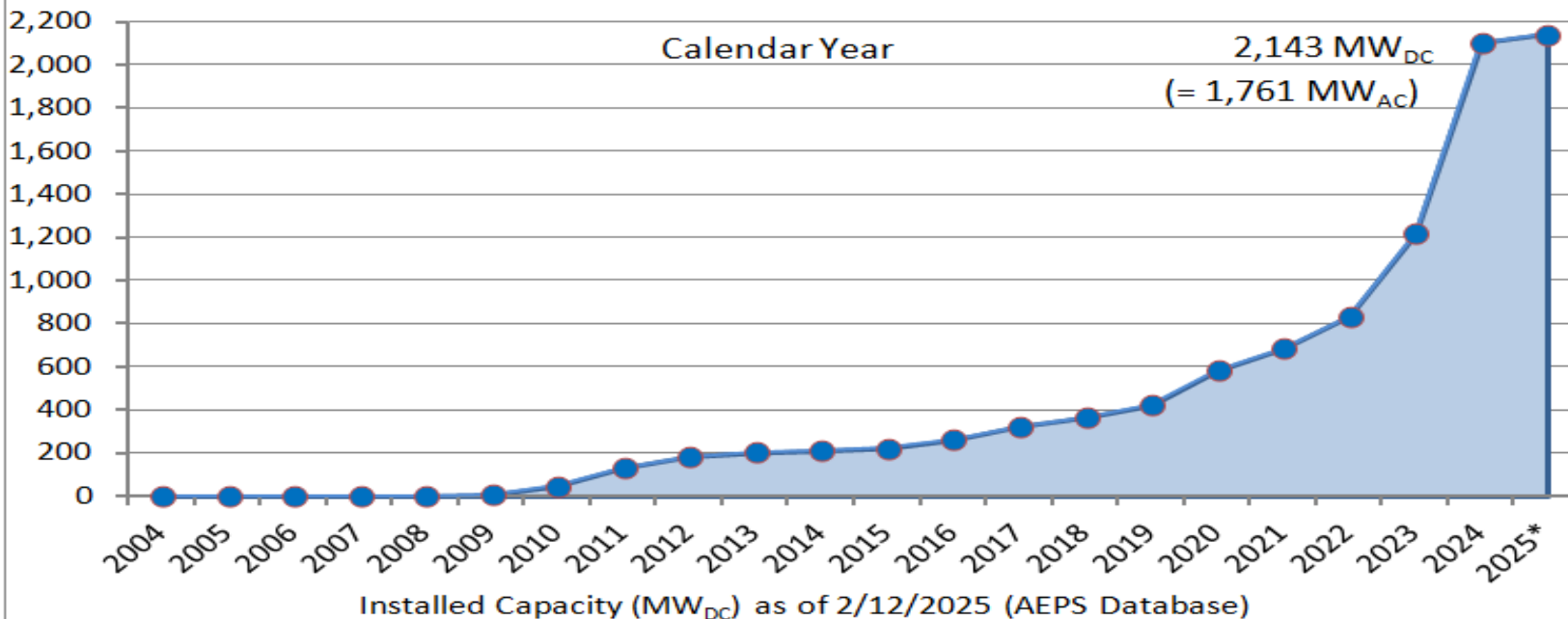
PV Capacity in PA Annual & Cumulative

As of 2/12/2025/2024

Annual Solar PV Capacity (MW_{DC}) Installed in PA



Cumulative Solar PV Capacity (MW_{DC}) Installed in PA

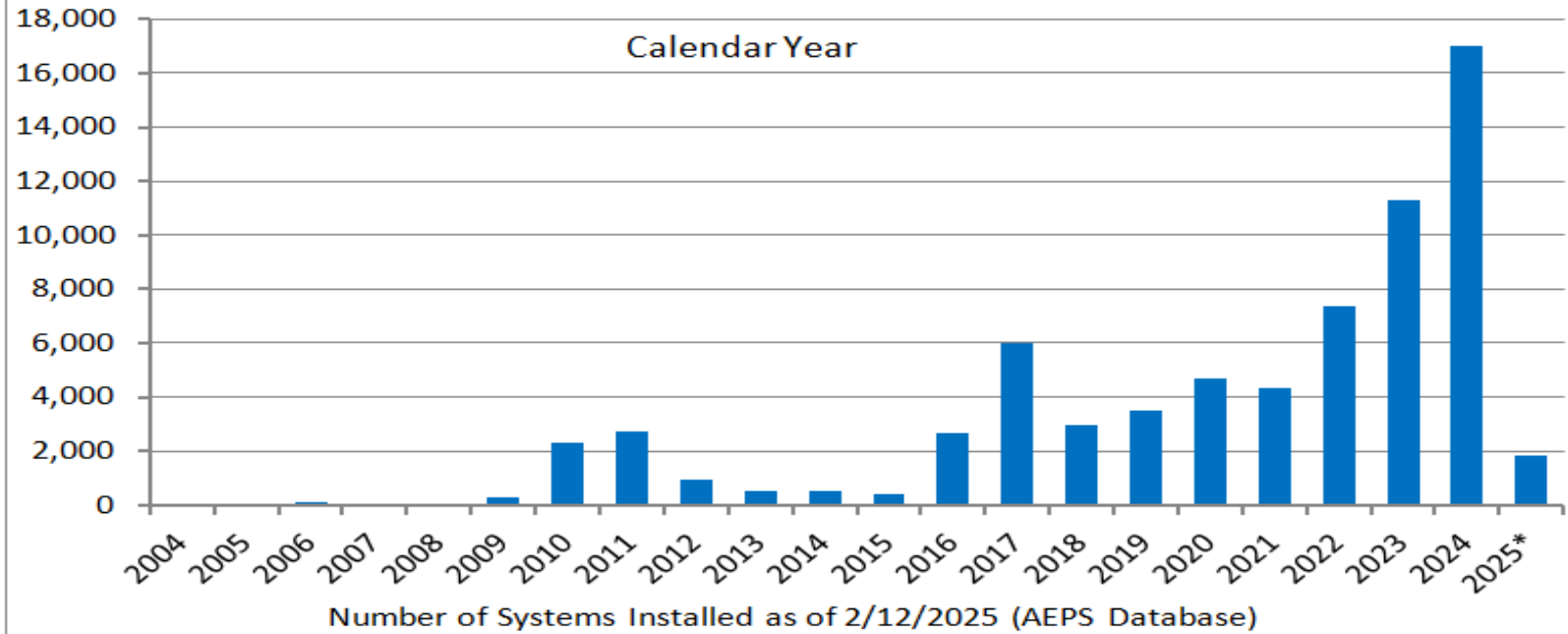


SEIA reports 2,349 MW installed through Qrt 3-2024

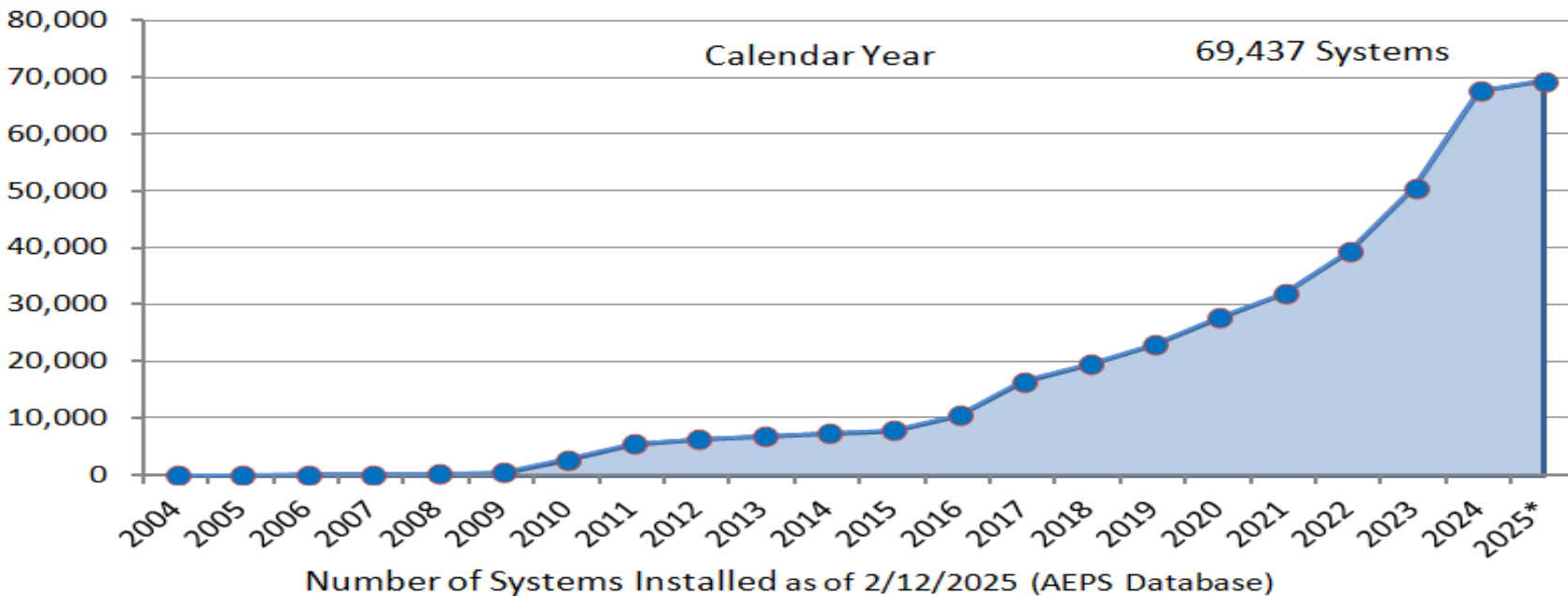
Number of PV Systems in PA Annual & Cumulative

As of 2/12/2025

Annual Number of Solar PV Systems Installed in PA



Cumulative Number of Solar PV Systems Installed in PA



Breakdown Of PV Installations in PA

Cumulative PV Installed in PA (DC)		
Capacity (DC)	# of Systems	Total MW
≤ 15 kW	57,506	479
> 15 kW to ≤ 250 kW	11,528	322
> 250 kW to ≤ 1 MW	280	137
> 1 MW to ≤ 3 MW	73	111
> 3 MW to ≤ 5 MW	22	82
> 5 MW to ≤ 10 MW	2	14
> 10 MW	26	999
Total	69,437	2,143

* as of 2/12/2025 as per PA AEPS (PUC)

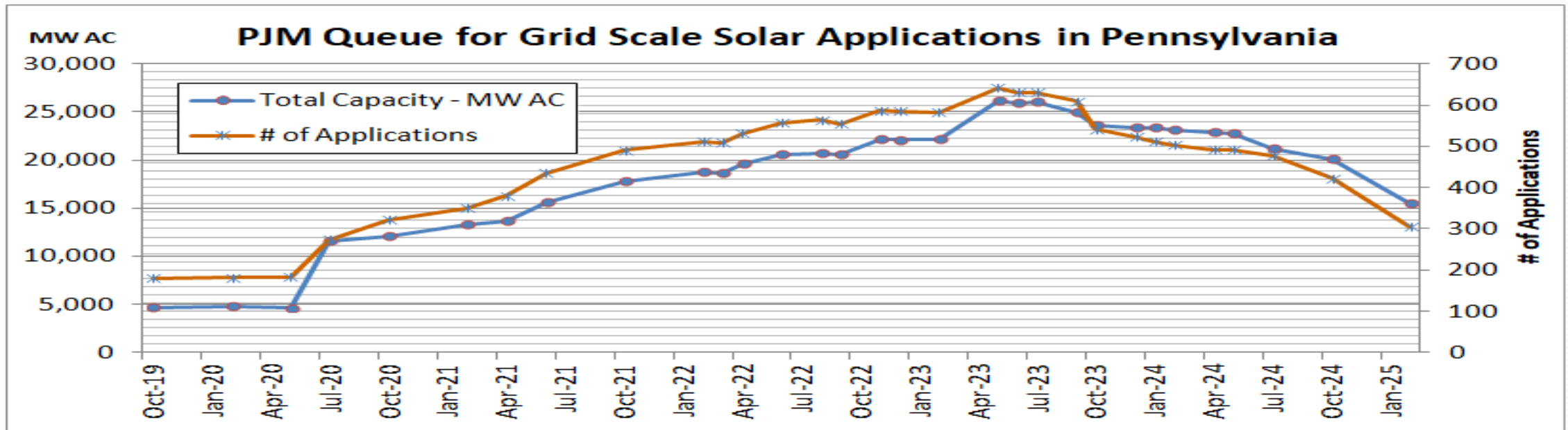
Cumulative PV Installed in PA (AC)		
Capacity (AC)	# of Systems	Total MW
≤ 15 kW	62,636	458
> 15 kW to ≤ 250 kW	6,442	203
> 250 kW to ≤ 1 MW	268	132
> 1 MW to ≤ 3 MW	60	115
Total DG Solar (NEM)	69,406	909
> 3 MW to ≤ 5 MW	4	16
> 5 MW to ≤ 10 MW	2	15
> 10 MW	25	822
Total Grid Scale	31	852
Total	69,437	1,761

* as of 2/12/2025 as per PA AEPS (PUC)

PJM Queue for PA Solar Applications

PJM Queue for PA		As of 2/12/2025			
Status	# of Apps	Max Facility Output (MFO)			Total Cap IC Queue Position
		Total Cap AC MW	Capacity Range		
			Min	Max	
Active	236	12,935	3.0	300.0	5,893
Engineering/Procurement Under Construction	62	2,319	10.0	162.0	1,180
Under Construction	6	259	18.9	100.1	161
Part in Srvc - Under Const	0	-	0.0	0.0	0
Sub-Total	304	15,512			7,233
In Service	39	998	3.3	150.0	521
Grand Total*	343	16,510			7,754

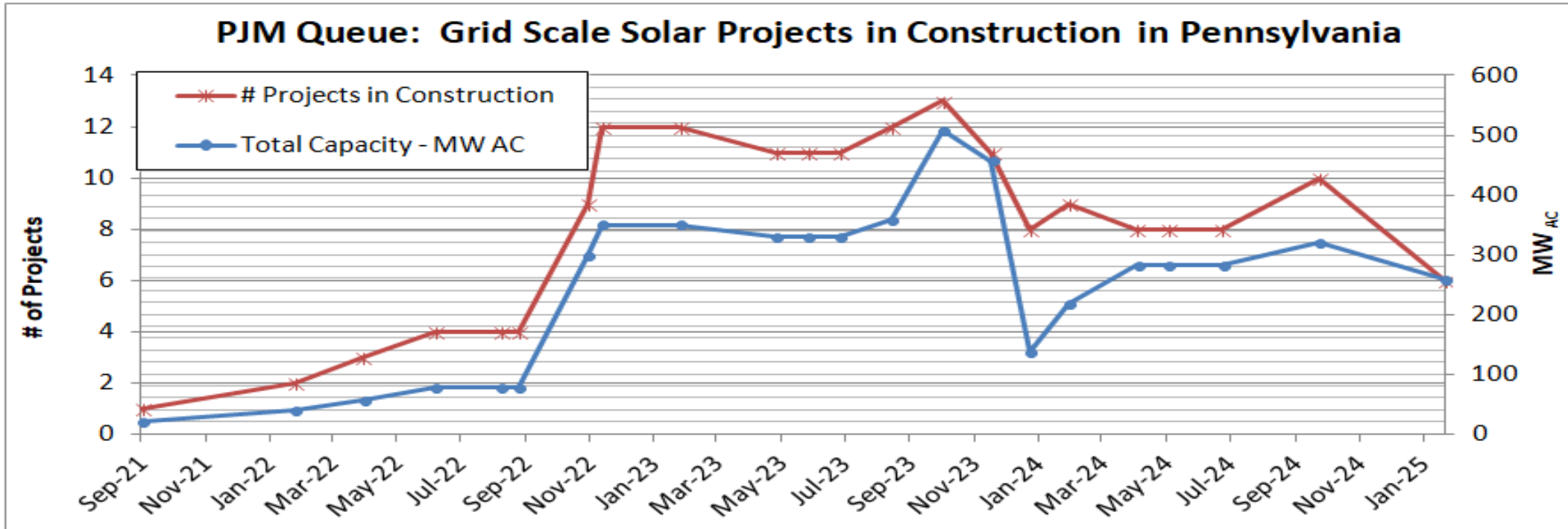
* Total Applications categorized as "Solar & Storage" = 64



PJM Queue for PA Solar Facilities - Under Construction

Projects Currently Under Construction - Solar PV Facilities in PA (2/12/2025)

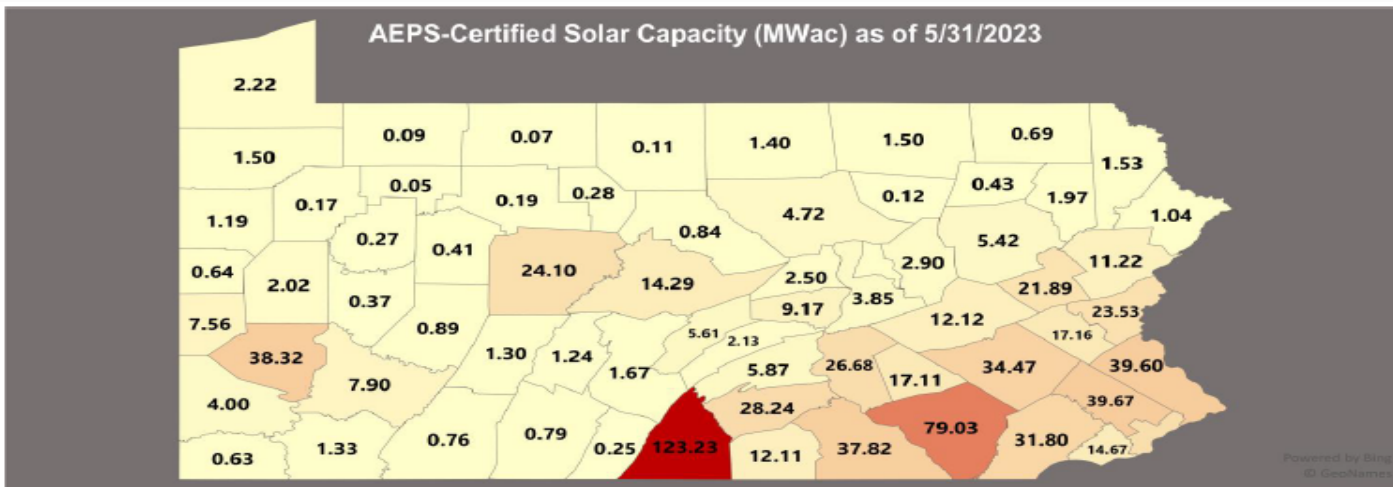
Queue #	Name	Commercial Name	State	County	Transmission Owner	MFO Capacity MW
AE1-071	Shade Gap-Roxbury 115 kV	Aspen Road Solar	PA	Franklin	PENELEC	100.1
AE2-117	ABW Tap-Alexandria 46 kV	HU-Pauls	PA	Huntingdon	PENELEC	20.0
AE2-175	Jackson-Long Pond 69 kV	Swiftwater Solar	PA	Monroe	PPL	80.0
AF2-130	Cobalt Corners 34.5 kV	Cobalt Solar	PA	Clarion	PENELEC	20.0
AF2-165	Clark Summit-Emlenton 34.5 kV	Cardinal Solar	PA	Venango	PENELEC	18.9
AG1-386	Smith-Francis Junction 25 kV	Smith-Francis Junction 25 kV	PA	Washington	APS	20.0
Total						259.0



PA Grid Scale Solar Facilities – In Service in 2023/2024/2025

In Service in 2023/2024/2025					Transmission Owner	MFO Capacity MW _{AC}	Actual In Service Date
Queue #	Name	Commercial Name	State	County			
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	Gaucho Solar	PA	Washington	DL	11.7	6/29/2023
AD1-135	Clinton 23 kV II	Gaucho Solar	PA	Washington	DL	20	6/29/2023
AE2-115	Midland 23 kV II	BE-PINE 2 Dam Road	PA	Beaver	DL	17.1	11/5/2023
AE2-114	Midland 23 kV I	BE-PINE 1 Cain Road	PA	Beaver	DL	17.1	11/20/2023
AE2-224	Bearrock-Johnstown 230 kV	CPV Maple Hill Solar	PA	Cambria	PENELEC	100	11/28/2023
AD2-115	Lyons-Moselem 69kV	Lyons Solar	PA	Berks	ME	20	12/1/2023
AE2-060	Mifflintown Bus-Mifflintown Tap 69 kV	Cottontail Solar 5 aka Walker Solar	PA	Juniata	PPL	20	12/12/2023
	Subtotal					266	2023
AD2-116	Hokes-Grantley 69 kV	Cottontail Solar 2	York	PA	ME	20	3/1/2024
AD1-020	Hunterstown-Lincoln 115 kV	Adams Solar LLC	Adams	PA	ME	80	3/21/2024
AD2-009	McConnellsburg 138 kV	Great Cover Solar LLC	Fulton	PA	APS	70	4/16/2024
AE1-196	Hokes-Jackson 69 kV II	Cottontail Solar 8	York	PA	ME	20	4/24/2024
AE2-133	Penns Tap-Richfield Tie 69 kV	Penn Solar (Cottontail 6)	Snyder	PA	PPL	20	5/8/2024
AE1-101	McConnellsburg-Texas Eastern 138 kV	Great Cove Solar II	Franklin	PA	APS	150	6/6/2024
AE1-185	Hokes-Jackson 69 kV	Cottontail Solar 1	York	PA	ME	20	8/12/2024
AE2-059	Derry Tap-Derry Bus 69 kV	Cottontail Solar 4 aka East Chilli Solar	PA	Northumberland	PPL	20	8/20/2024
AF1-021	Bethelboro-Connellsville #1 25 kV	Pechin Solar	PA	Fayette	APS	14	10/18/2024
AF1-022	Lake Lynn-Uniontown 25 kV	Gans Solar Farm	PA	Fayette	APS	14	12/3/2024
AE2-125	Stahlstown-Ligonier 25 kV	Stahlstown-Ligonier 25 kV	PA	Westmoreland	APS	13.8	12/4/2024
AF1-039	Listonburg-Highpoint 24.9 kV	Listonburg Solar	PA	Somerset	PENELEC	15	12/26/2024
	Subtotal					457	2024
AF1-006	Fairview East 34.5 kV	Erie Solar	PA	Erie	PENELEC	20	1/29/2025
AE2-054	Warfordsburg 34 kV	Blairs Valley	PA	Franklin	APS	20	1/30/2025
	Subtotal					40	2025
Total (MW_{AC})						763	2023/24/25

AEPS Report 2023 – Observations on Solar Resources

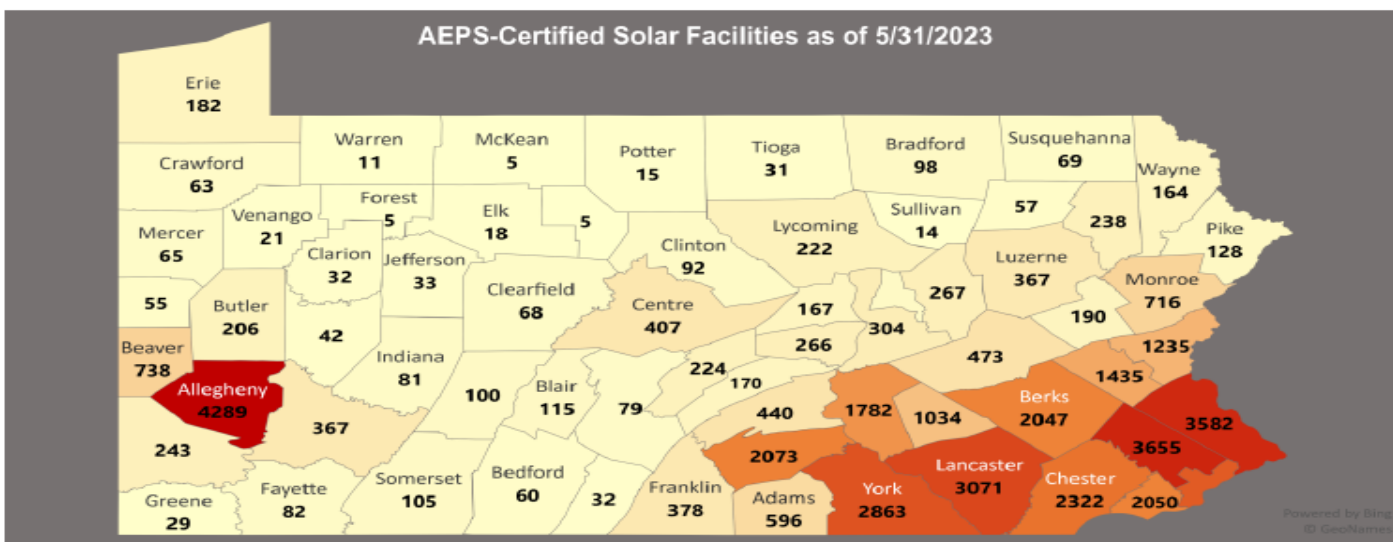


Note: As of May 31, 2023, the AEPS certified solar generation capacity was 1.21 MWac in Montour County and 25.19 MWac in Philadelphia County.

0.5% Solar PV Requirement = 525.0 MW_{AC} Solar PV Capacity

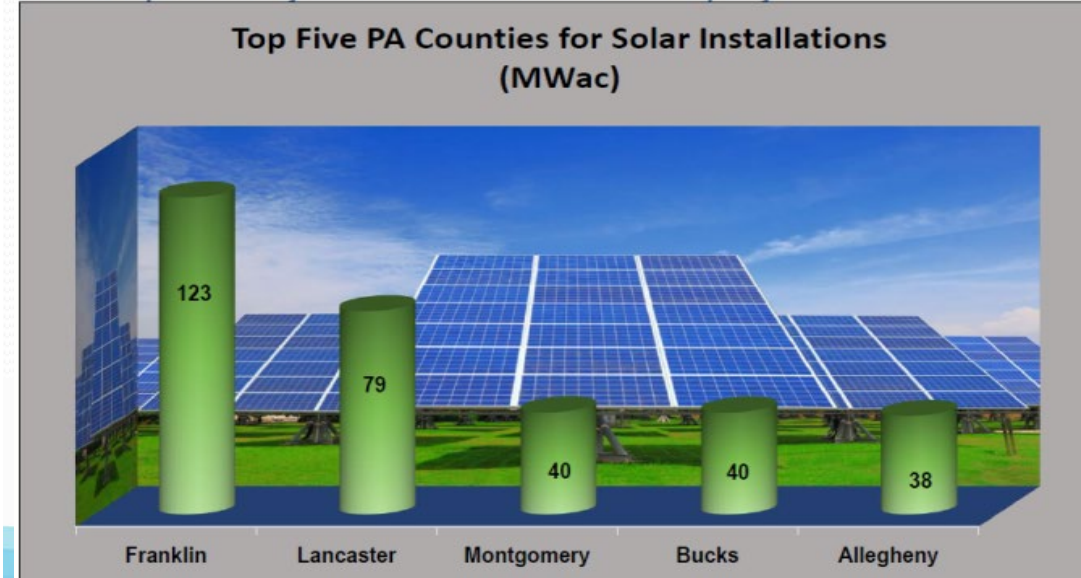
534.4 MW_{AC} had been installed in PA by 5/31/2021

Currently, 1,761 MW_{AC} is installed (as of 2/12/2025), or the solar share = 1.68%

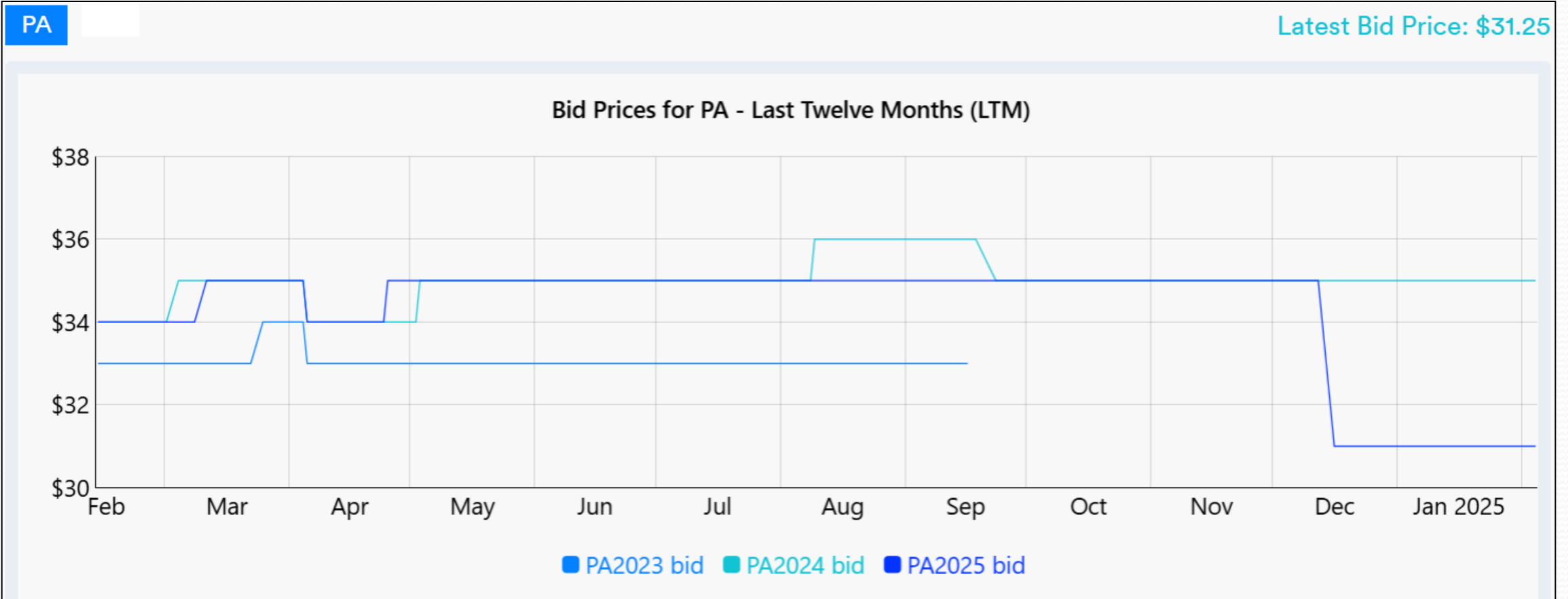


Note: As of May 31, 2023, Montour and Philadelphia Counties had 97 and 2,724 AEPS certified solar generation facilities, respectively.

Chart 12: Top Five Pennsylvania Counties for Installed Solar Capacity



Current PA SREC Prices (SRECTrade)

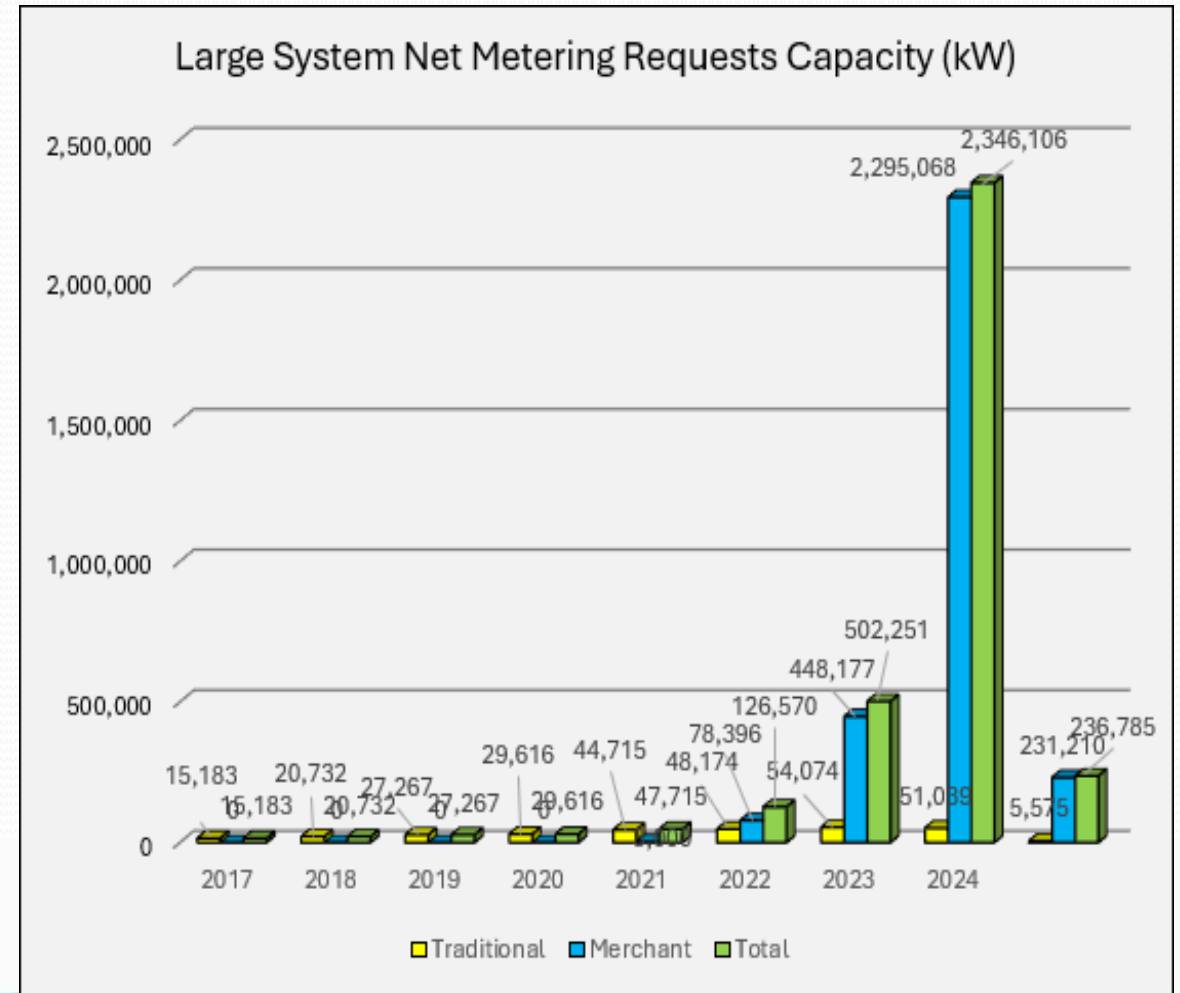
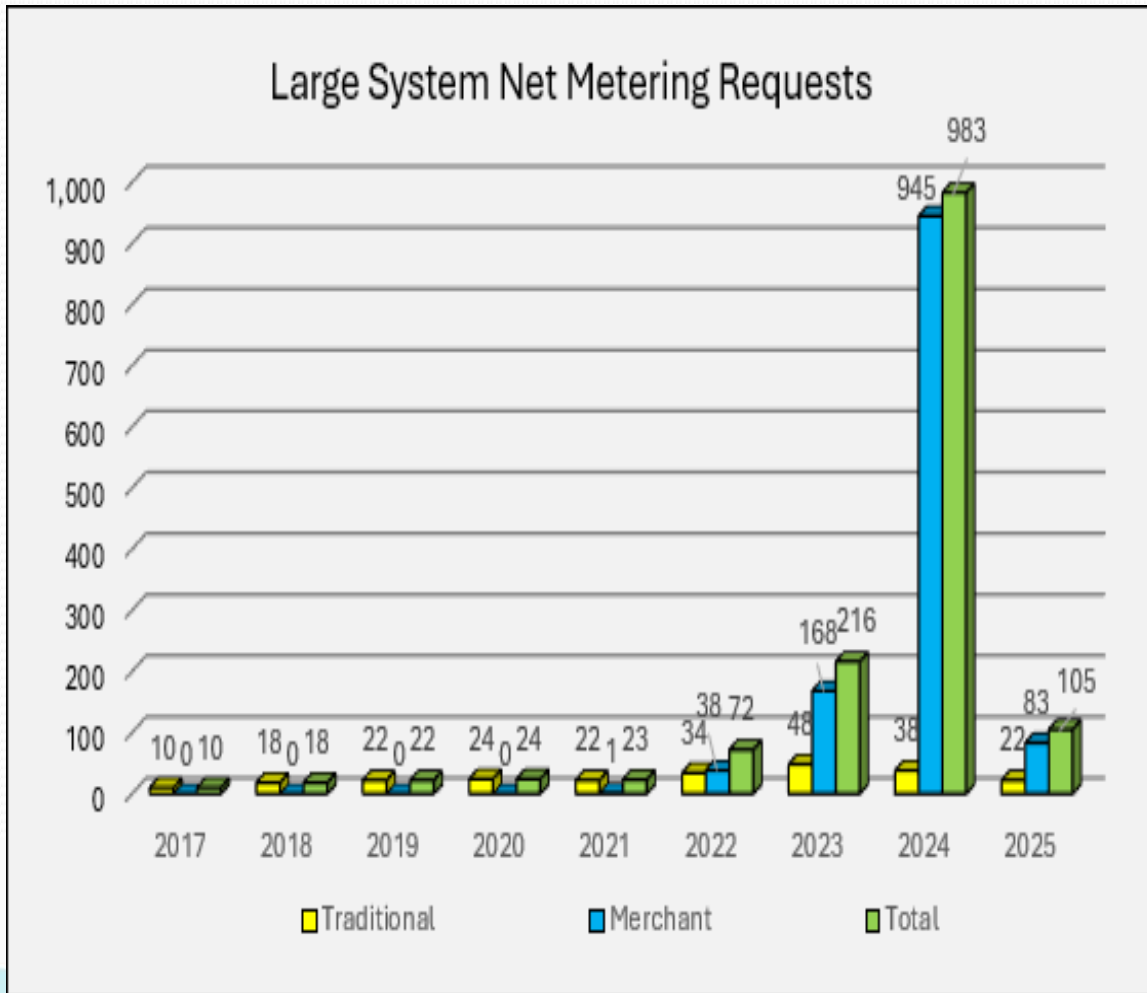


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Current PA SACP = \$84.96/SREC (2023/2024)

Large Net Metering 500 kW to 3+ MW Interconnection Applications – Merchant Generator Issue

As of 2/11/2025



Thank You!!