



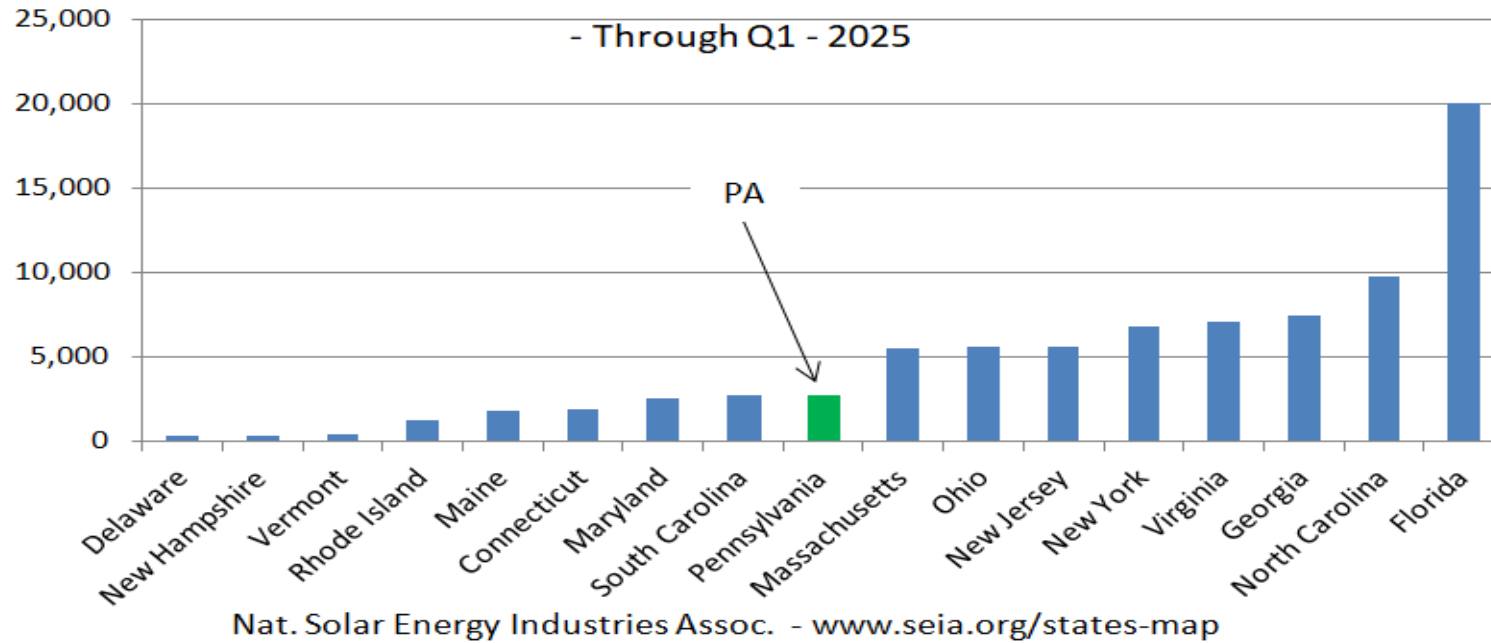
Pennsylvania Solar Update

MSSIA – 2nd Qrtly Mtg
June 26, 2025



Ron Celentano – MSSIA - VP for Pennsylvania
PASSIA - President
(celentanoR@aol.com)

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

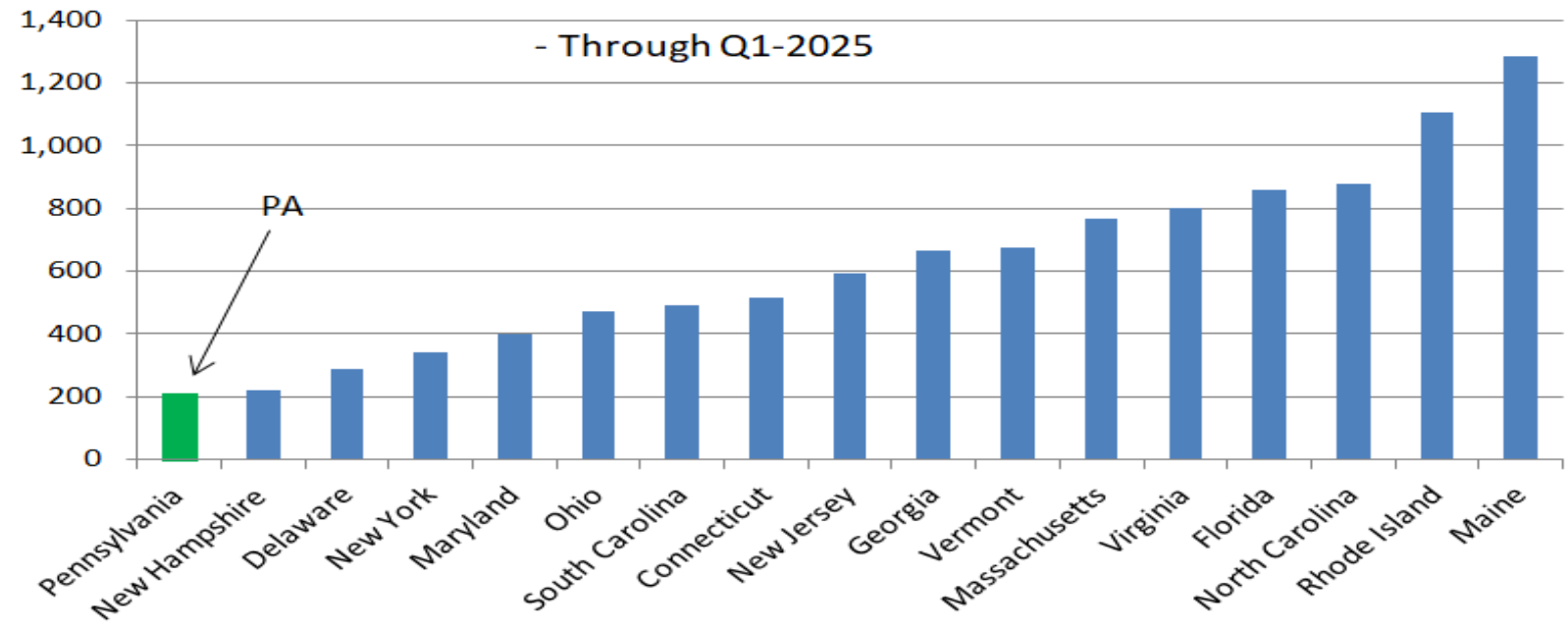


Solar in Other East Coast States Compared to PA

Solar in Pennsylvania Ranks 22nd in the Nation

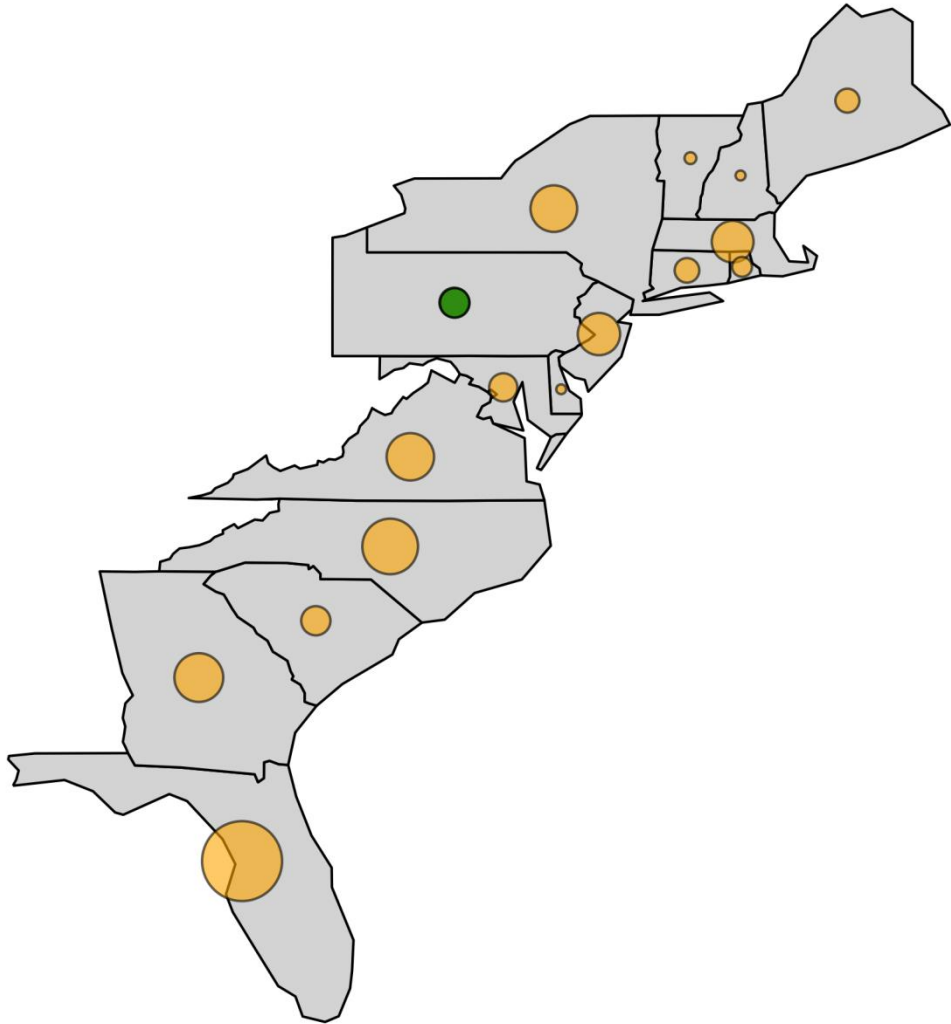
SEIA – Qrt Q4, 2024

Total Solar PV Installed per Capita (MW/Million)

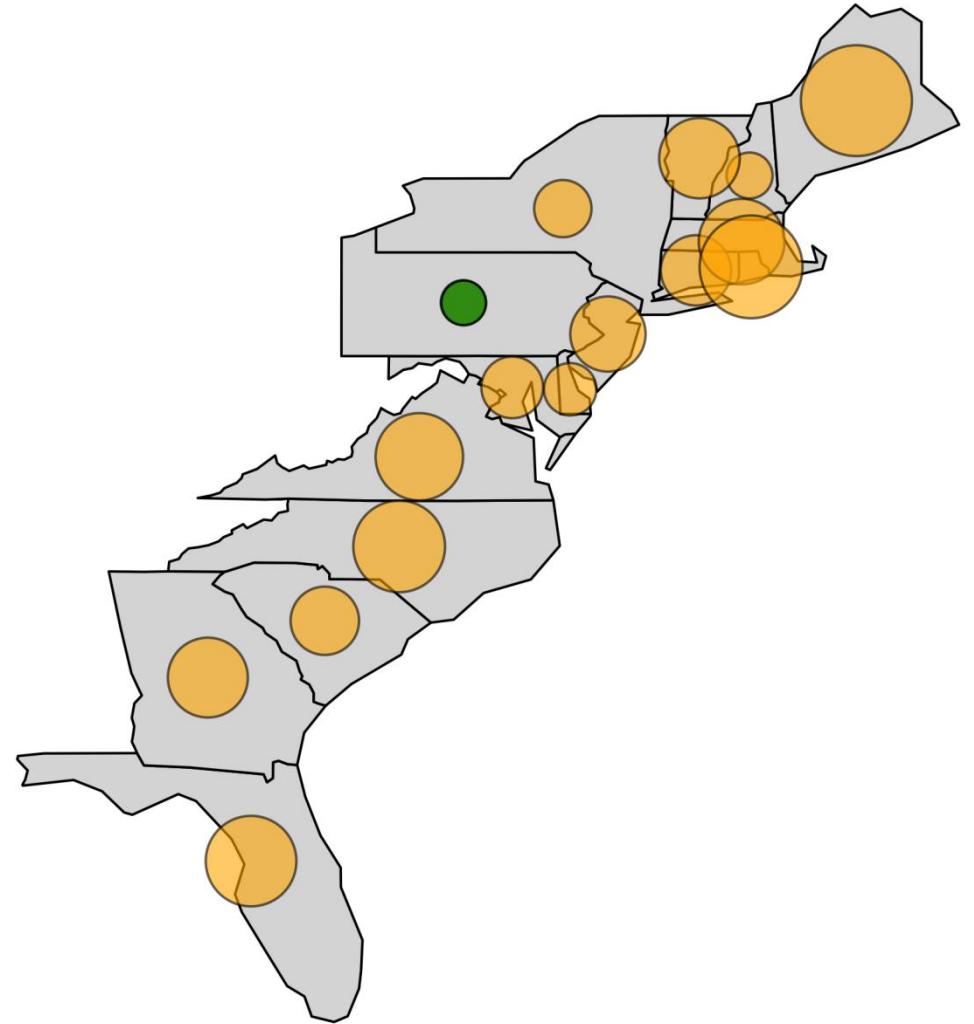


Solar in Other East Coast States Compared to PA

Solar Installed Capacity (MW) by State - East Coast
- Through Q1 2025

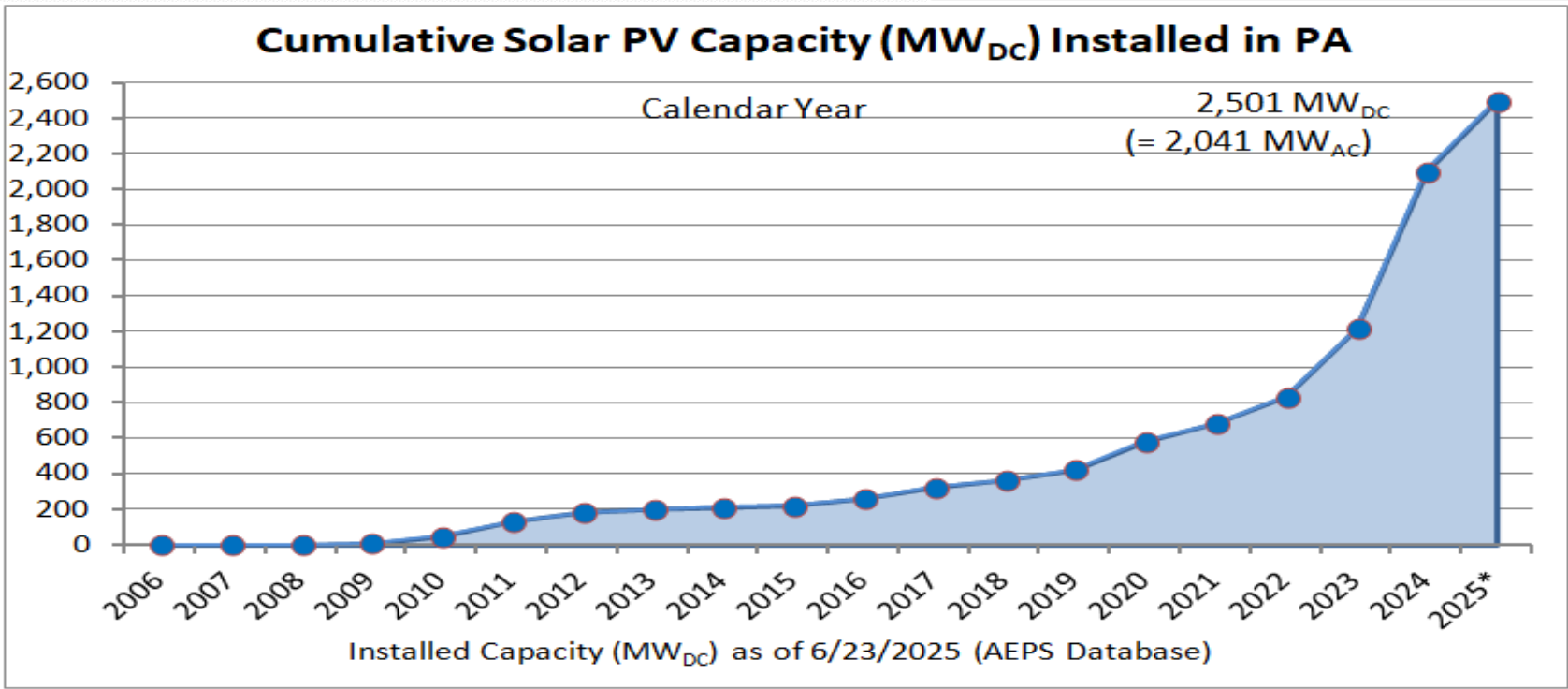
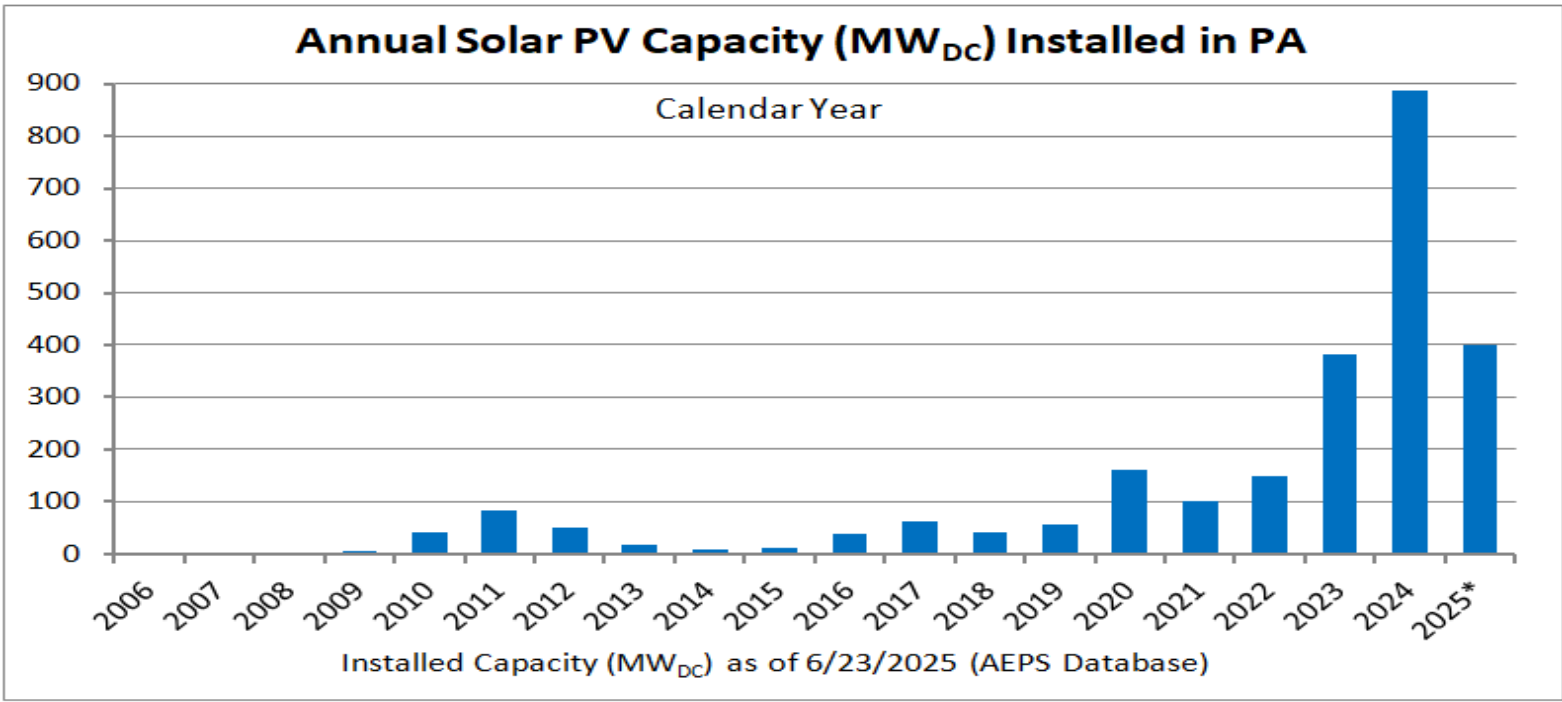


Total Solar PV Installed per Capita (MW/Million)
- Through Q1 2025



PV Capacity in PA Annual & Cumulative

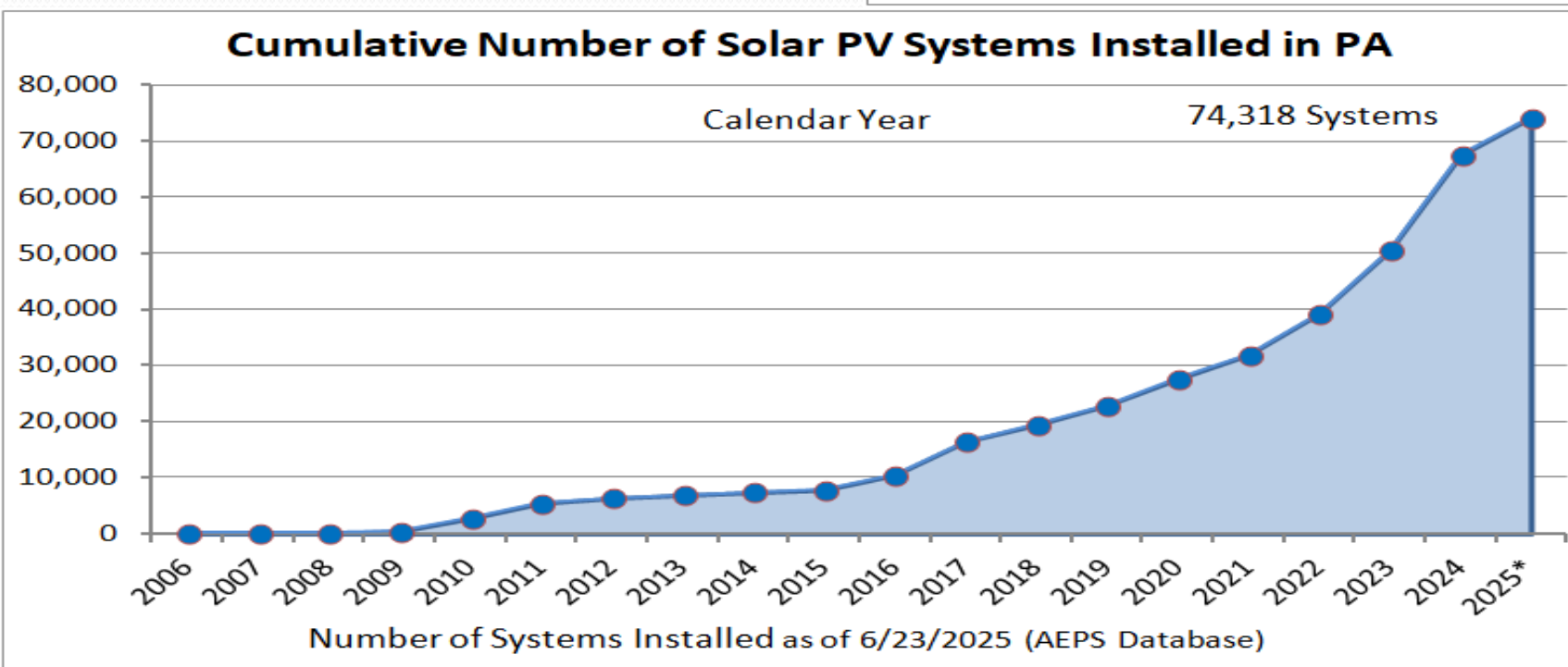
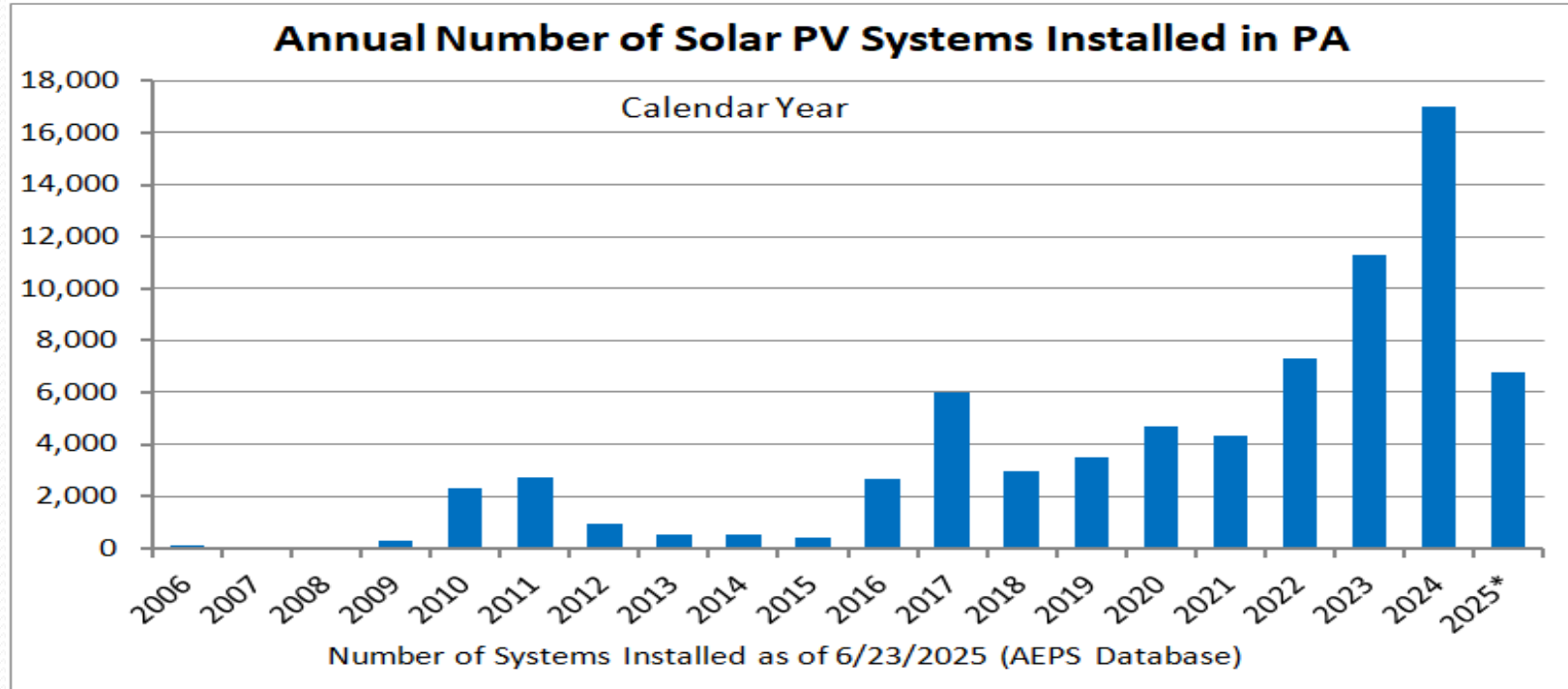
As of 6/23/2025



SEIA reports 2,742 MW installed through Qrt 1-2025

Number of PV Systems in PA Annual & Cumulative

As of 6/23/2025



Breakdown Of PV Installations in PA

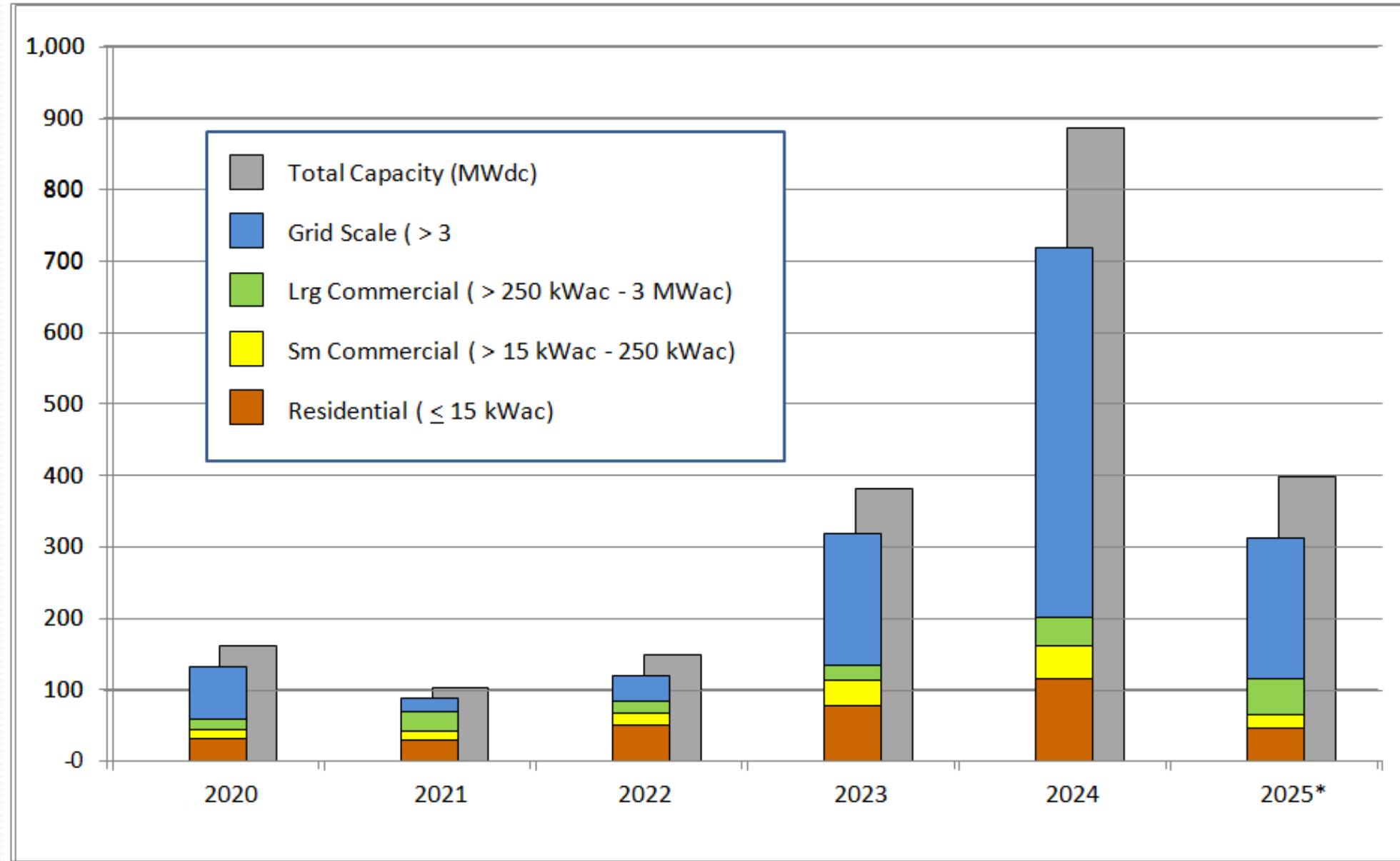
Cumulative PV Installed in PA (DC)		
Capacity (DC)	# of Systems	Total MW
≤ 15 kW	61,378	512
> 15 kW to ≤ 250 kW	12,503	347
> 250 kW to ≤ 1 MW	291	141
> 1 MW to ≤ 3 MW	83	128
> 3 MW to ≤ 5 MW	29	110
> 5 MW to ≤ 10 MW	2	14
> 10 MW	32	1,249
Total	74,318	2,501

* as of 6/23/2025 as per PA AEPS (PUC)

Cumulative PV Installed in PA (AC)		
Capacity (AC)	# of Systems	Total MW
≤ 15 kW	66,967	491
> 15 kW to ≤ 250 kW	6,962	218
> 250 kW to ≤ 1 MW	278	138
> 1 MW to ≤ 3 MW	74	146
Total DG Solar (NEM)	74,281	993
> 3 MW to ≤ 5 MW	4	16
> 5 MW to ≤ 10 MW	2	15
> 10 MW	31	1,018
Total Grid Scale	37	1,049
Total	74,318	2,041

* as of 6/23/2025 as per PA AEPS (PUC)

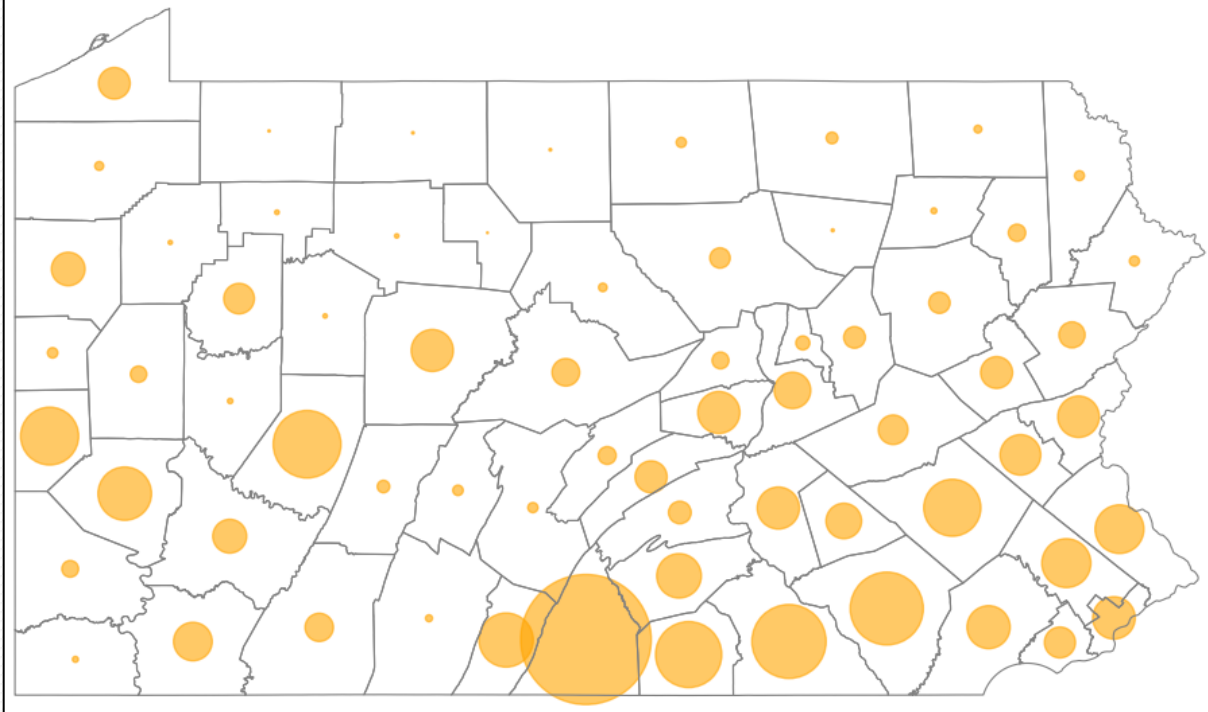
Annual Solar PV Capacity (MW) Installed in PA: AC vs DC



* as of 6/23/2025 as per PA AEPS (PUC)

Solar PV Installations in PA by County

Total Solar PV Capacity (MW in DC) by County in PA as of 06-23-2025

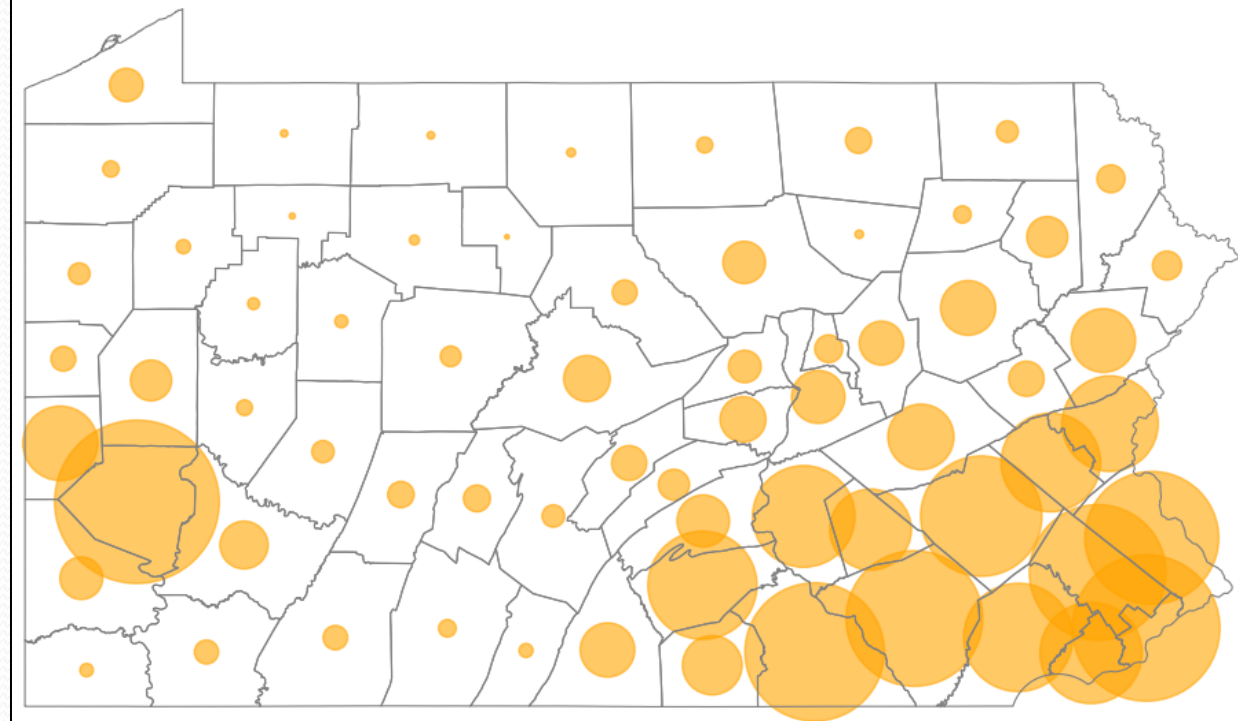


0.5% Solar PV Requirement = 525.0 MW_{AC} Solar PV Capacity

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

Currently, 2,041 MW_{AC} is installed (as of 6/23/2025), or the solar share in PA = **1.94%**

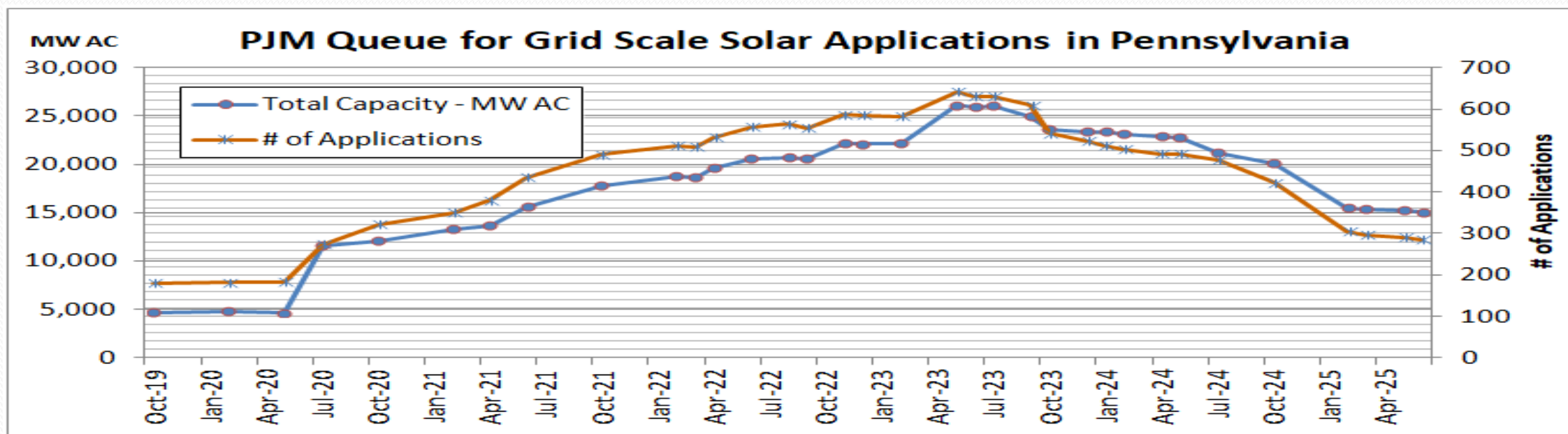
Total Number of Solar PV Systems Installed by County in PA as of 06-23-2025



PJM Queue for PA Solar Applications

PJM Queue for PA		As of 6/23/2025			
Status	# of Apps	Max Facility Output (MFO)			Total Cap IC Queue Position
		Total Cap AC MW	Capacity Range		
			Min	Max	
Active	219	12,423	3.0	300.0	5,320
Engineering/Procurement	54	2,136	10.0	162.0	1,054
Under Construction	10	412	17.9	120.0	237
Part in Srvc - Under Const	1	80	80.0	80.0	48
Sub-Total	284	15,051			6,658
In Service	41	1,117	3.3	150.0	595
Grand Total*	325	16,168			7,253

* Total Applications categorized as "Solar & Storage" = 58



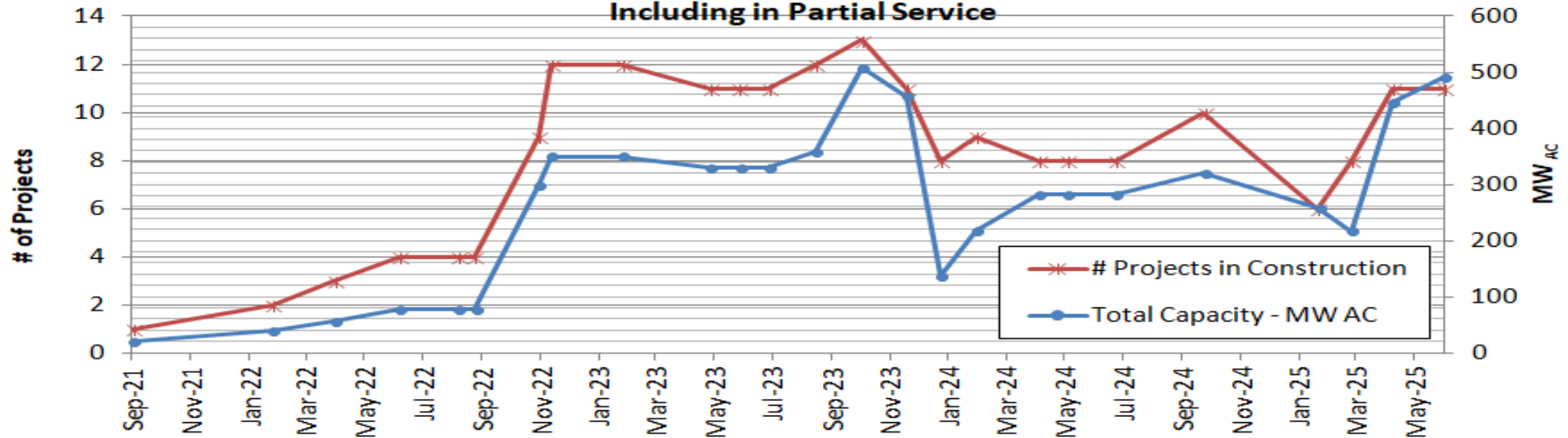
PJM Queue for PA Solar Facilities - Under Construction

Projects Currently Under Construction - Solar PV Facilities in PA (6/23/2025)
Including In Partial Service (*)

Queue #	Name	Commercial Name	State	County	Transmission Owner	MFO Capacity MW
AE1-079	Maysville-Sharon 69 kV	Welcome Solar, LLC	PA	Mercer	ATSI	19.9
AE1-237	Andover (Maysville) 69kV I	Welcome Solar II	PA	Crawford	ATSI	19.9
AE2-042	Milton 69 kV	Northumberland Solar	PA	Northumberland	PPL	65.0
AE2-113	Farmers Valley-Ridgeway 115 kV	Ridgeway Solar	PA	McKean	PENELEC	120.0
AE2-117	ABW Tap-Alexandria 46 kV	HU-Pauls	PA	Huntingdon	PENELEC	20.0
AE2-131	Philipsburg-Karthaus 34.5	UN-Kylertown	PA	Westmoreland	PENELEC	20.0
*AE2-175	Jackson-Long Pond 69 kV	Swiftwater Solar	PA	Monroe	PPL	80.0
AE2-316	Brookville-Squab Hollow 138 kV	Squab Solar	PA	Jefferson	PENELEC	90.0
AE2-343	Andover (Maysville) 69 kV II	Welcome Solar III, LLC	PA	Crawford	ATSI	17.9
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 (MW_{AC})		* In Partial Service				491.6

PJM Queue: Grid Scale Solar Projects in Construction in Pennsylvania

Including in Partial Service



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	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
AE2-115	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	PA	York	ME	20	3/1/2024
AD1-020	Hunterstown-Lincoln 115 kV	Adams Solar LLC	PA	Adams	ME	80	3/21/2024
AD2-009	McConnellsburg 138 kV	Great Cover Solar LLC	PA	Fulton	APS	70	4/16/2024
AE1-196	Hokes-Jackson 69 kV II	Cottontail Solar 8	PA	York	ME	20	4/24/2024
AE2-133	Penns Tap-Richfield Tie 69 kV	Penn Solar (Cottontail 6)	PA	Snyder	PPL	20	5/8/2024
AE1-101	McConnellsburg-Texas Eastern 138 kV	Great Cove Solar II	PA	Franklin	APS	150	6/6/2024
AE1-185	Hokes-Jackson 69 kV	Cottontail Solar 1	PA	York	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
AE1-071	Shade Gap-Roxbury 115 kV	Aspen Road Solar	PA	Franklin	PENELEC	100.1	2/28/2025
AF2-130	Cobalt Corners 34.5 kV	Cobalt Solar	PA	Clarion	PENELEC	18.9	5/26/2025
	Subtotal					159	2025
Total (MW_{AC})						882	2023/24/25

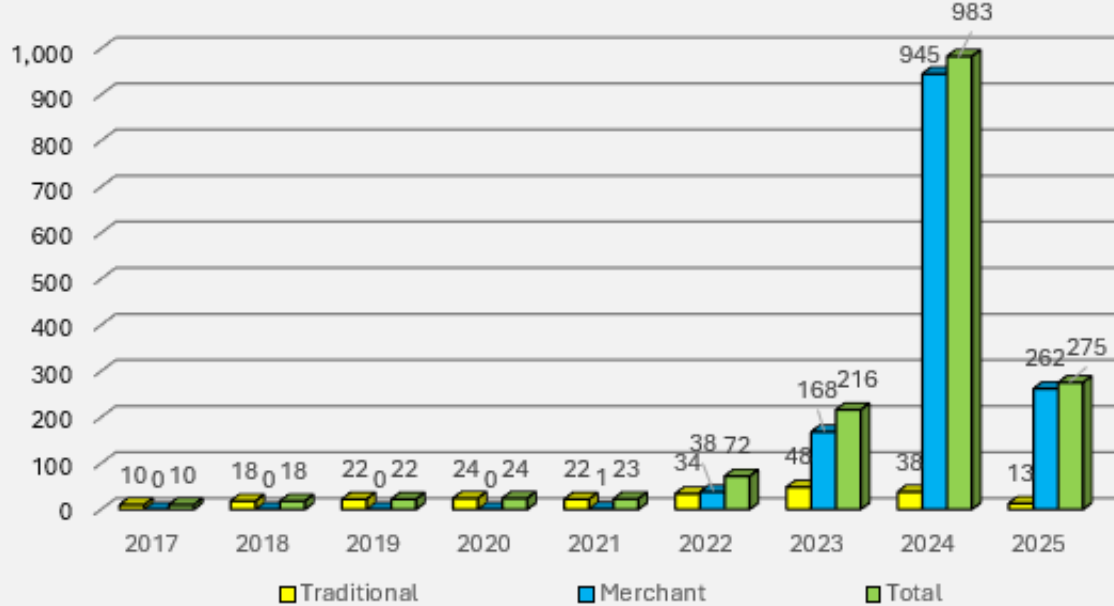
Current PA SACP = \$74.06/SREC

Current PA SREC Prices



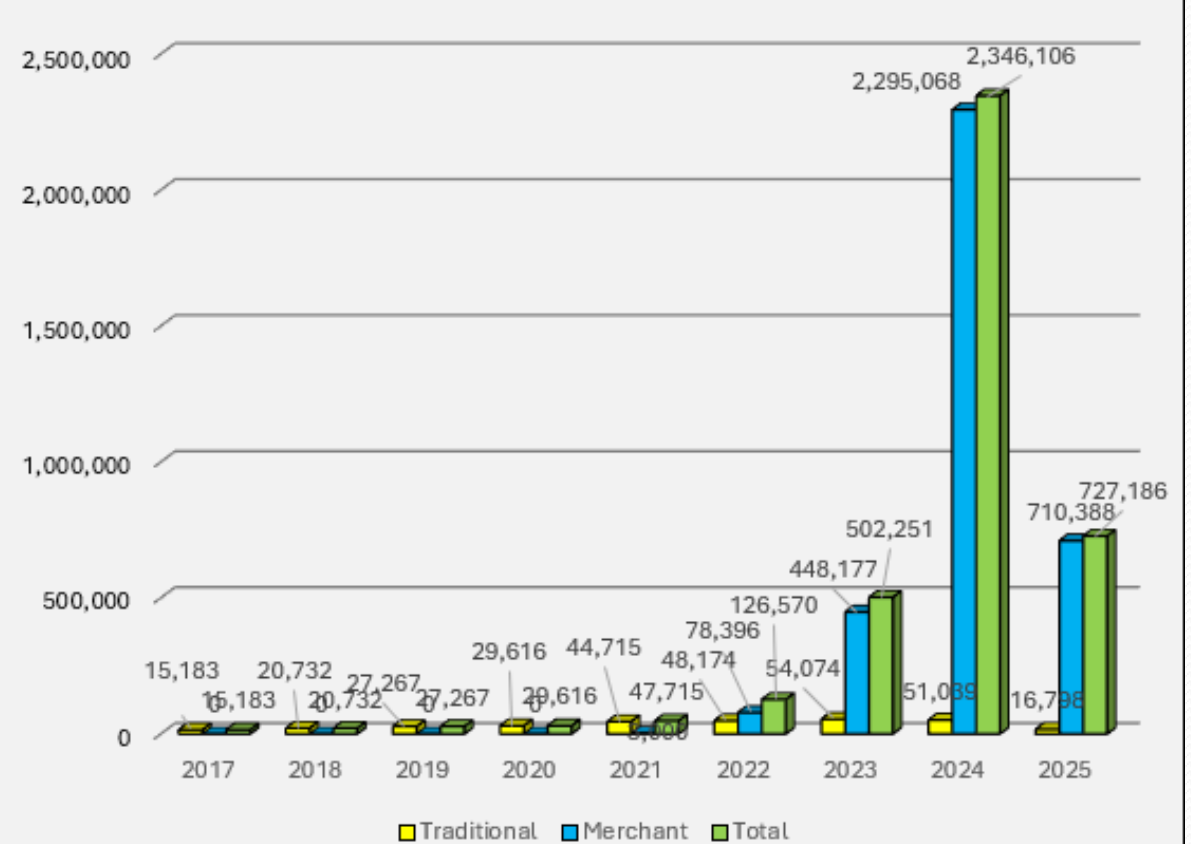
Current Status of BTM Interconnection Requests in PA (>500 kW) – Late April, 2025

Large System Net Metering Requests



EDC / Rate District	Systems	kW
Penelec	506	1,229,332
West Penn	377	961,517
PPL	341	705,166
Penn Power	202	496,408
Met-Ed	155	376,007
DLC	30	67,826
PECO	26	33,596
UGI	15	27,750
Wellsboro	3	3,750
Citizens	2	2,434

Large System Net Metering Requests Capacity (kW)



Some PA Solar Policy Highlights

Gov. Shapiro's Lightning Plan

HB 500 – EDGE tax credit reforms

HB 501 – PRESS

HB 502 – RESET Board

HB 503 – PACER (RGGI Light)

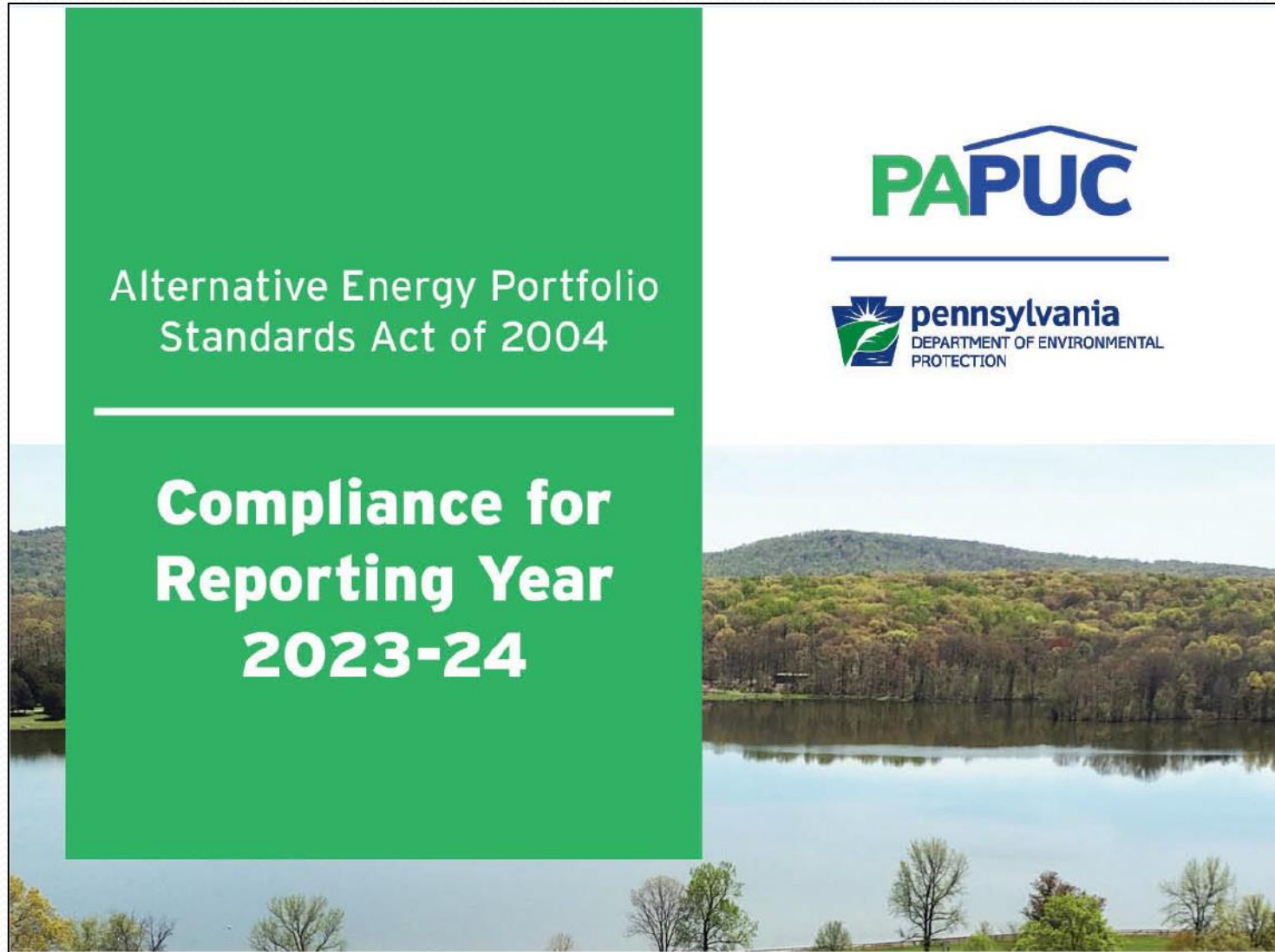
HB 504 – Community Energy

HB 505 – Act 129 reforms

////////////////////////////////////

SB349 - Decommissioning

PUC Annual AEPS 2024 Report – Just Out



<https://www.puc.pa.gov/media/3527/aeps-2024-report-final.pdf>

PUC Annual AEPS 2024 Report - Highlights

Alternative Energy Portfolio Standards Act Compliance for Reporting Year 2023-2024

Tier I Solar Compliance

- **All Electric Distribution Companies (EDCs) and all but seven Electric Generation Suppliers (EGSs)** met their requirements. Five EGSs paid the required ACPs to achieve compliance. Two EGSs filed for bankruptcy and failed to meet their compliance obligations.
- **Cost of Purchased Credits: \$24,826,178**
- **ACP Assessments: \$57,471**

Tier I Compliance

- **All EDCs and all but seven EGSs** met their requirements. Four EGSs paid the required ACPs to achieve compliance. Three EGSs filed for bankruptcy and failed to meet their compliance obligations.
- **Cost of Purchased Credits: \$322,614,378**
- **ACP Assessments: \$721,980**

Tier II Compliance

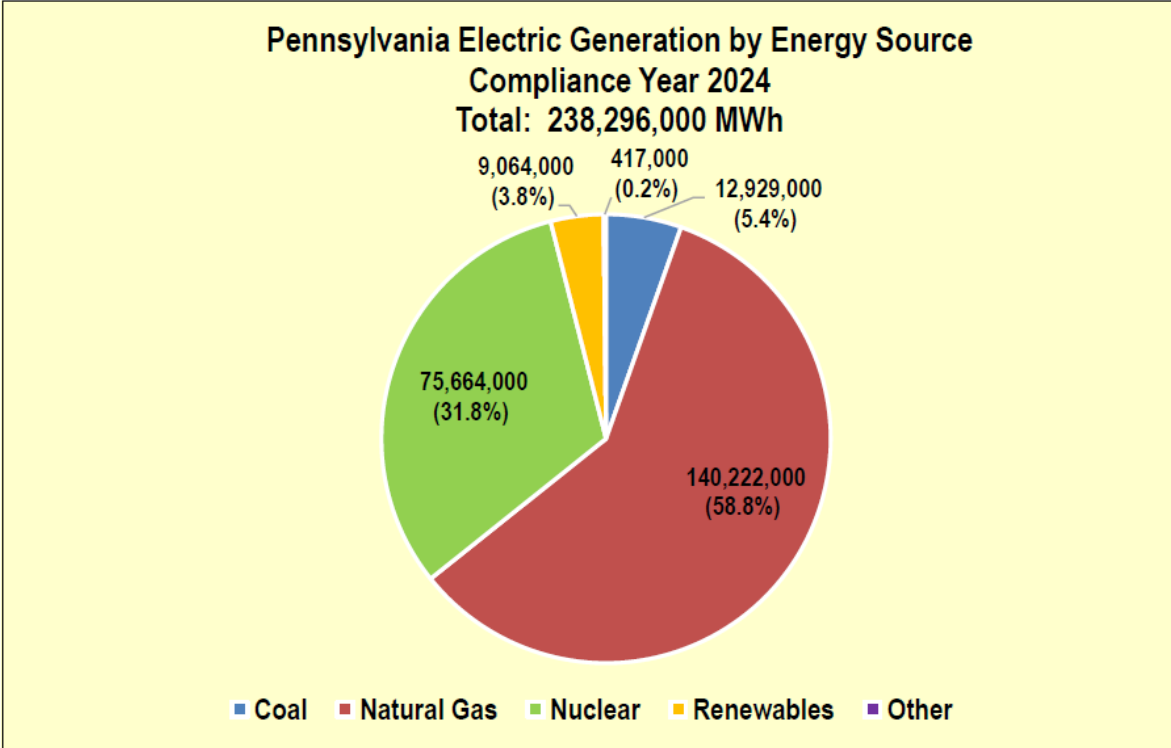
- **All EDCs and all but seven EGSs** met their requirements. Four EGS paid the required ACPs to achieve compliance. Three EGSs filed for bankruptcy and failed to meet their compliance obligations.
- **Cost of Purchased Credits: \$354,781,178**
- **ACP Assessments: \$928,125**

Total Number of Credits Retired

- **24,477,272** credits were retired by **all EDCs and 111 EGSs**. Five EGS paid ACPs to achieve compliance. Three EGSs filed for bankruptcy and consequently did not retire a combined total of 36,237 credits and did not pay ACPs.
- **Cost of Purchased Credits: \$702,221,733**
- **ACP Assessments: \$1,707,576**

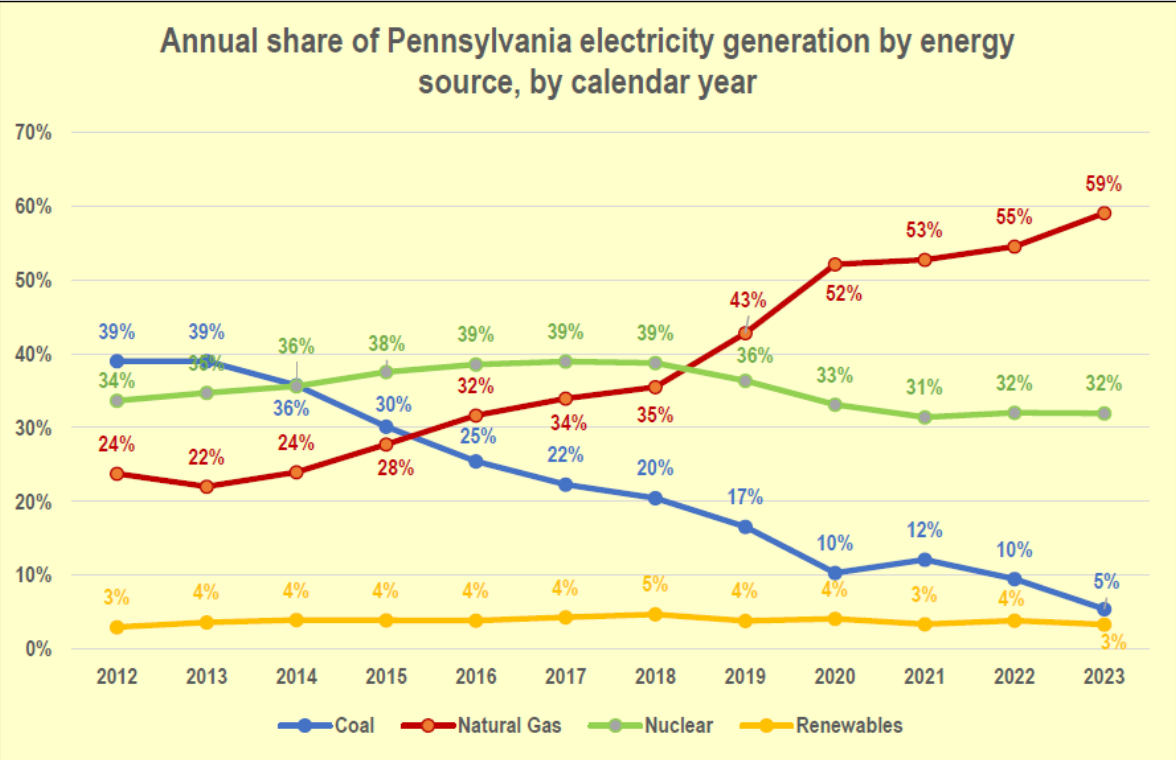
PUC Annual AEPS 2024 Report - Highlights

Chart 10: Pennsylvania Compliance Year Electric Generation by Energy Source



Source: Energy Information Administration Electricity Data Browser

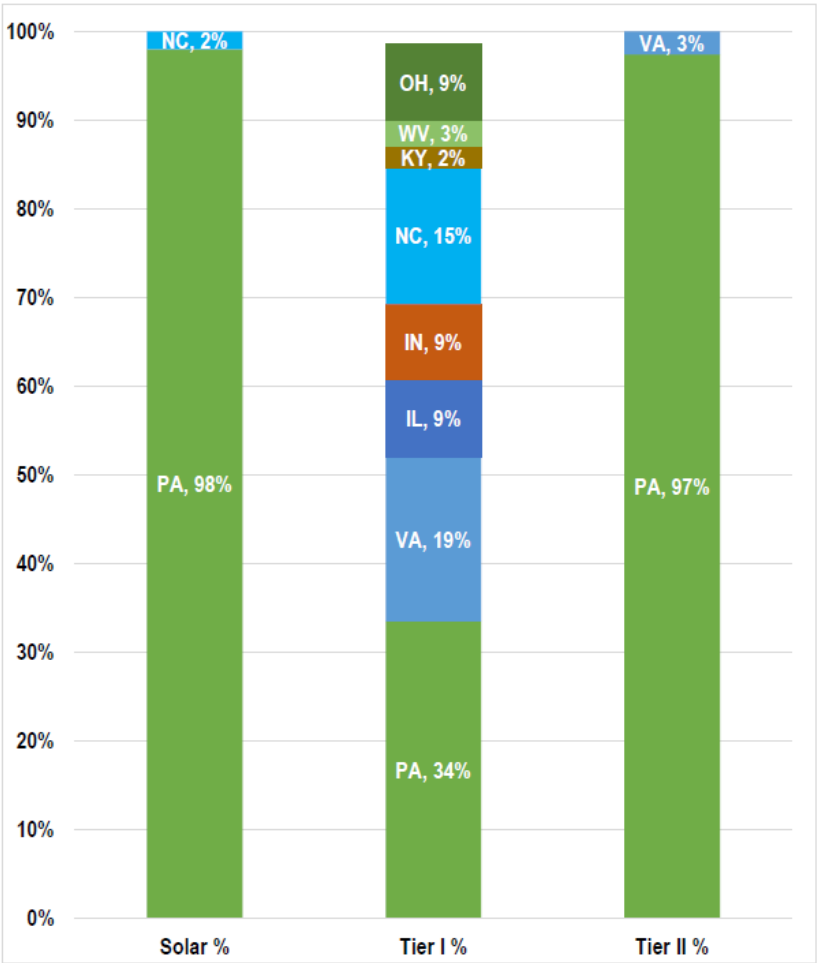
Chart 9: Pennsylvania Annual Electric Generation by Energy Source



Source: Energy Information Administration Electricity Data Browser

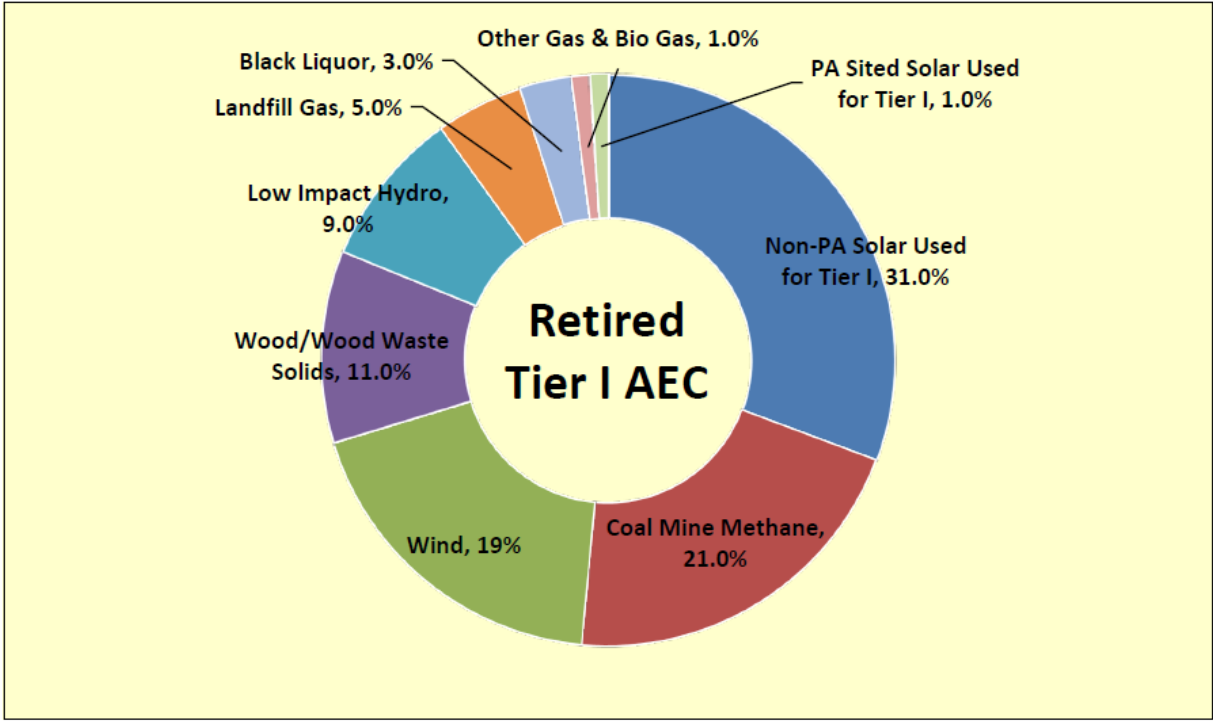
PUC Annual AEPS 2024 Report - Highlights

Chart 1: Percentage of AECs Retired in 2024



Note: Total may not add up to 100% because states supplying less than 2% of credits in any category are not shown and due to rounding.

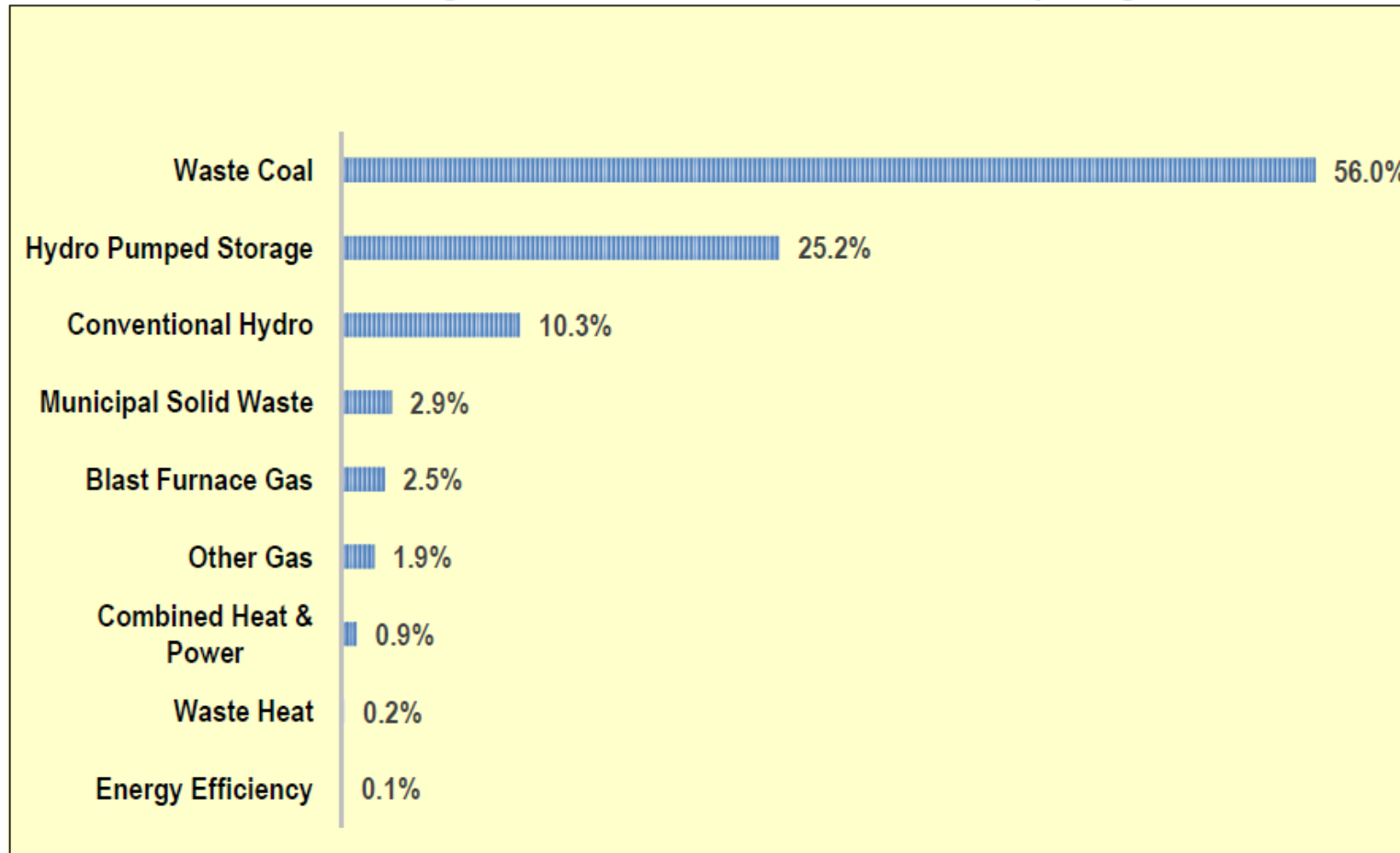
Chart 3: Percentage of Sources of Tier I AECs Retired for the 2024 Reporting Year



Note: The total may not add up to 100% because of rounding.

PUC Annual AEPS 2024 Report - Highlights

Chart 4: Sources and Percentages of Tier II AECs Retired for the 2024 Reporting Year



Total AECS Payout for Solar (in-state & out-of-state) = \$124.8M
vs AECS Payout for Waste Coal Alone = \$198.7M

PUC Annual AEPS 2024 Report - Highlights

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

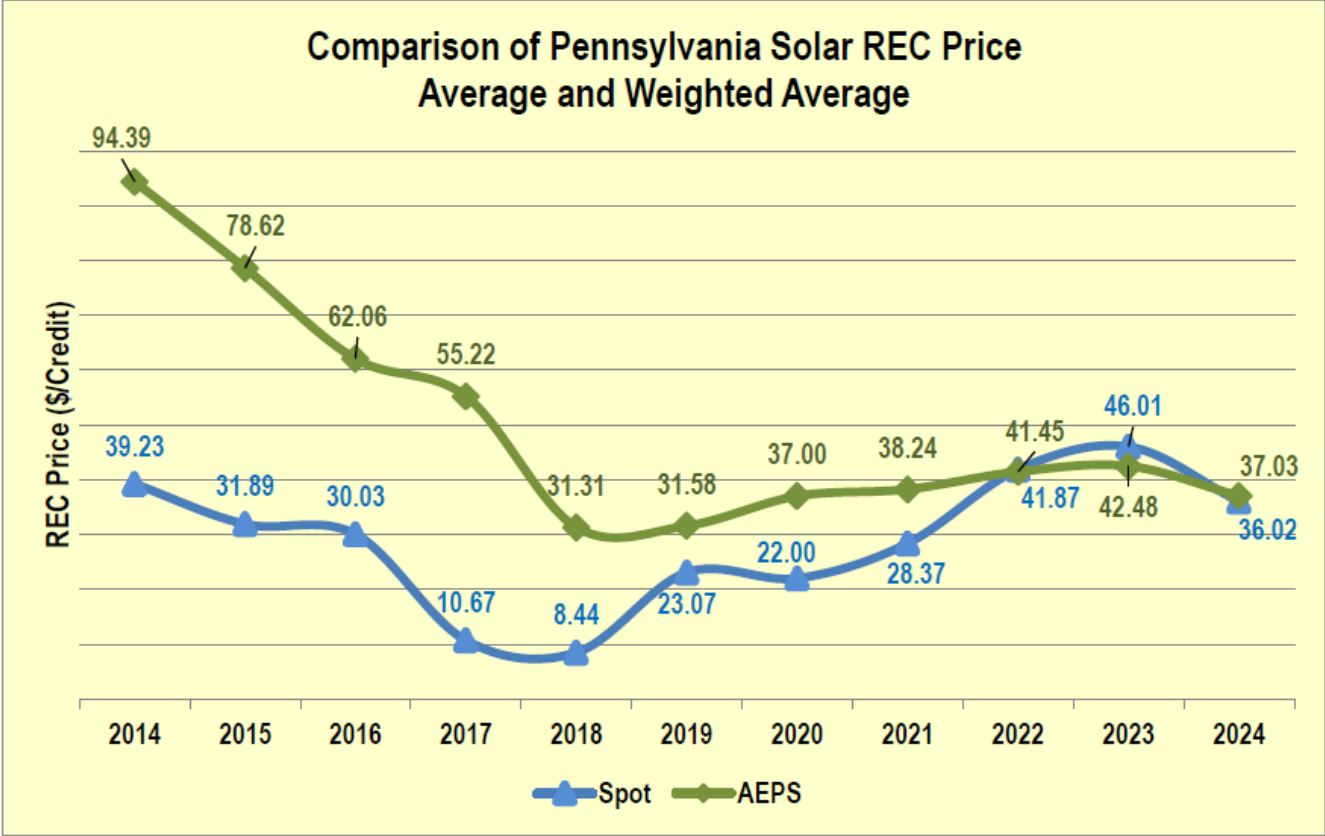


Chart 7: Tier I Average Spot Market vs. Weighted Average AEC Credit Prices

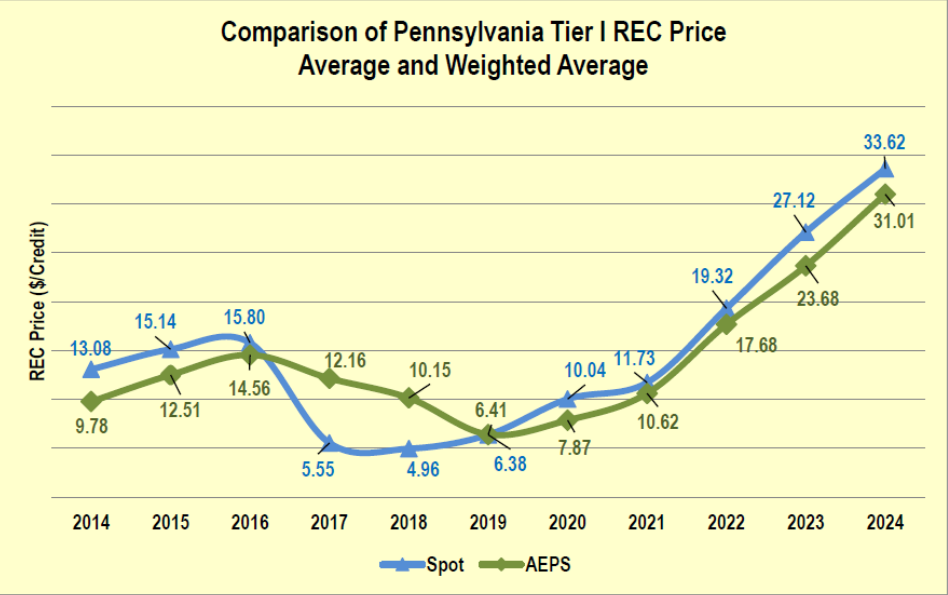
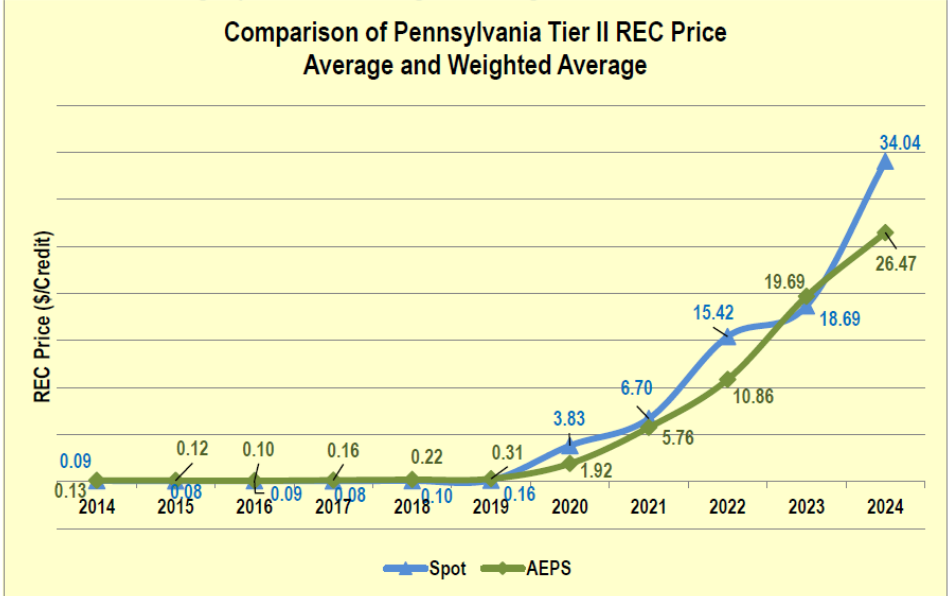


Chart 8: Tier II Average Spot Market vs. Weighted Average AEC Credit Prices



Thank You!!