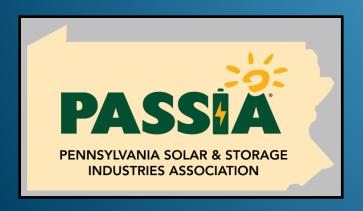
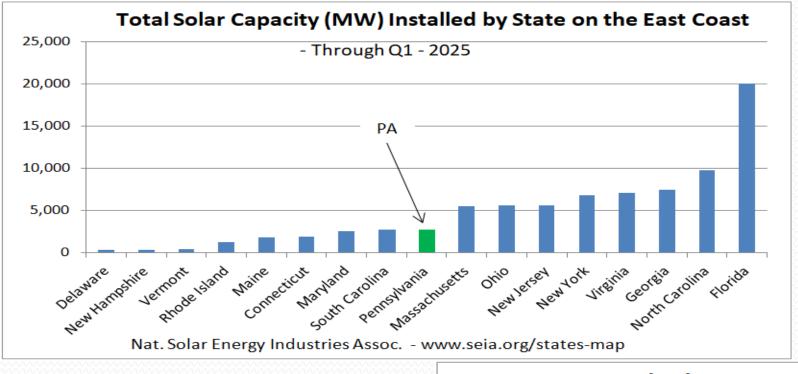


# Pennsylvania Solar Update Lightning Talks

SEF EnergyPath July 16, 2025



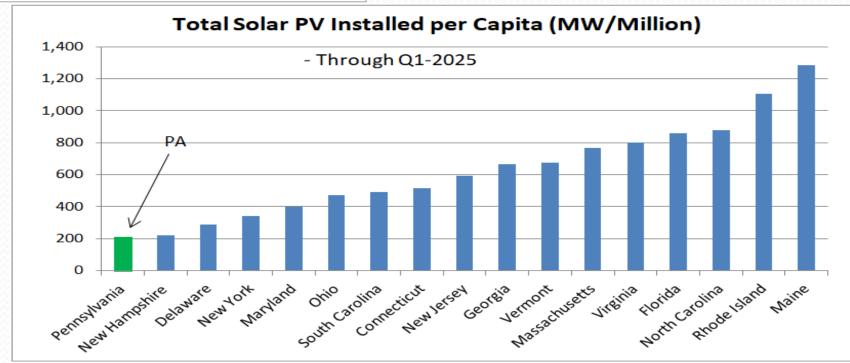
Ron Celentano – MSSIA - VP for Pennsylvania PASSIA - President (celentanoR@aol.com)



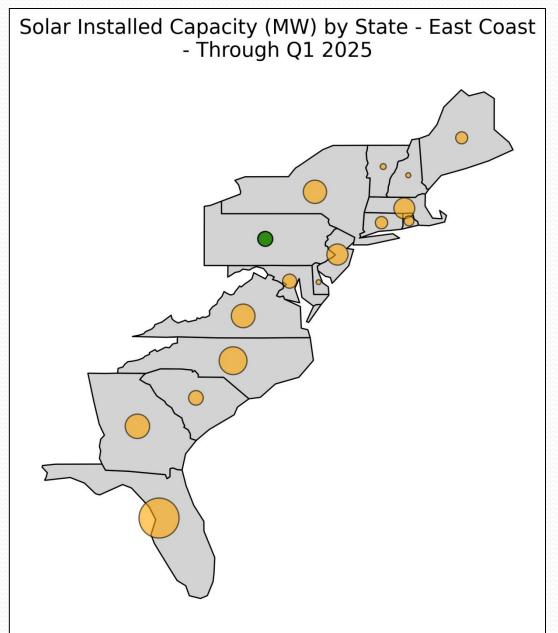
# Solar in Other East Coast States Compared to PA

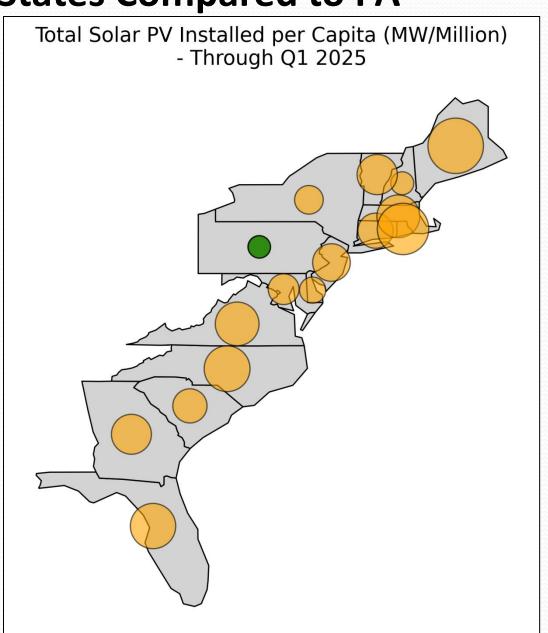
### Solar in Pennsylvania Ranks 10th in the Nation

SEIA - Qrt Q1, 2025



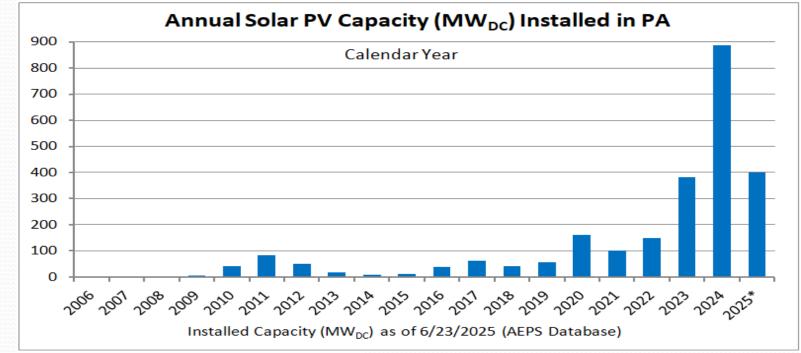
#### Solar in Other East Coast States Compared to PA

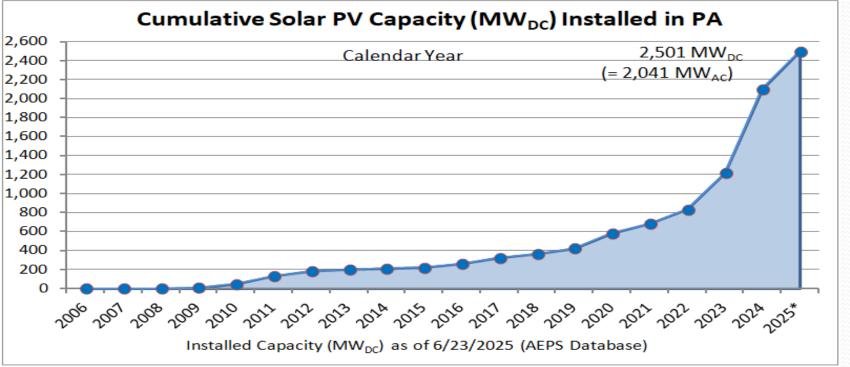




## PV Capacity in PA Annual & Cumulative

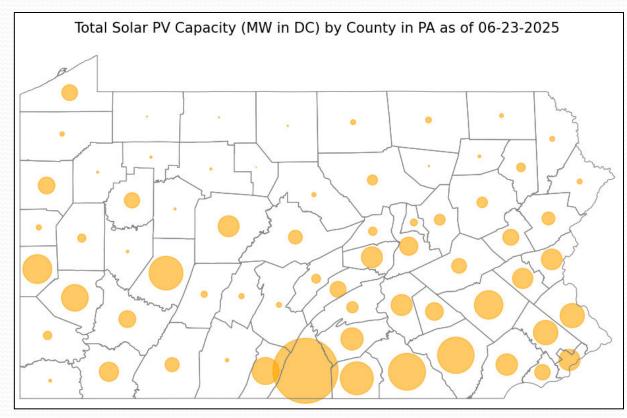
As of 6/23/2025





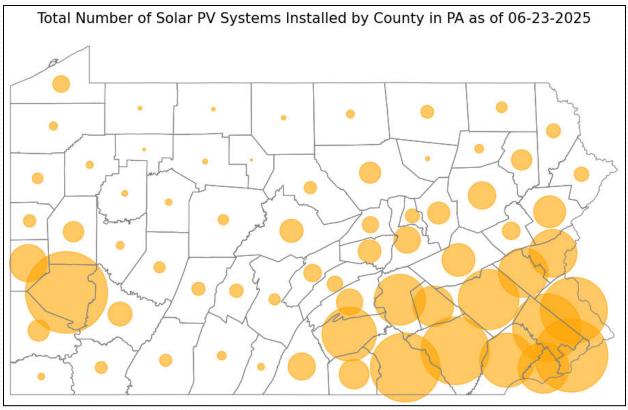
SEIA reports 2,742 MW installed through Qrt 1-2025

#### **Solar PV Installations in PA by County**

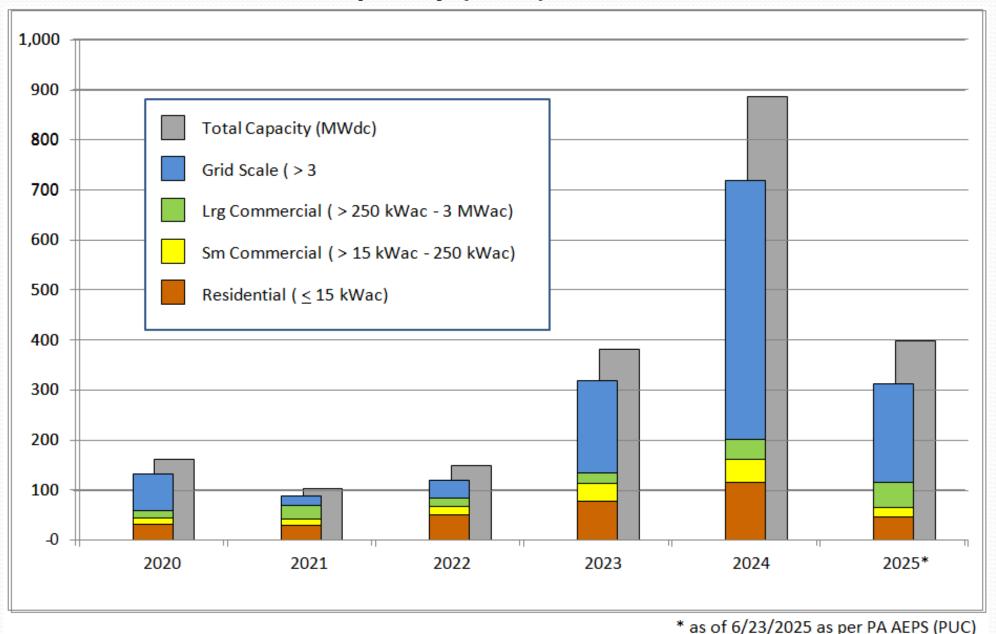


0.5% Solar PV Requirement = 525.0 MW<sub>AC</sub> Solar PV Capacity 534.4 MW<sub>AC</sub> had been installed in PA by 5/31/2021

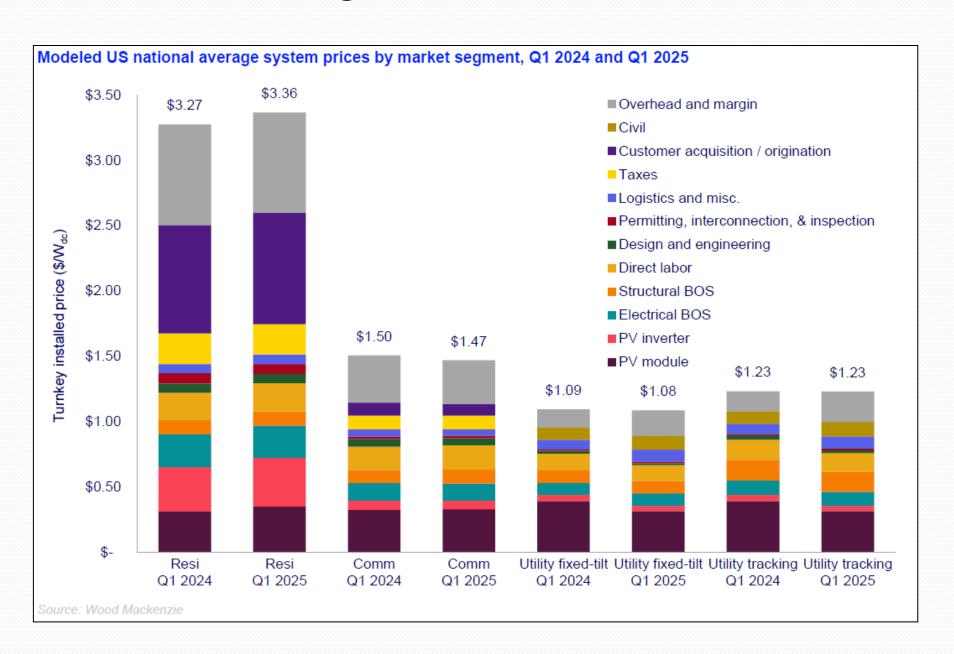
Currently, 2,041 MW<sub>AC</sub> is installed (as of 6/23/2025), or the solar share in PA = **1.94%** 



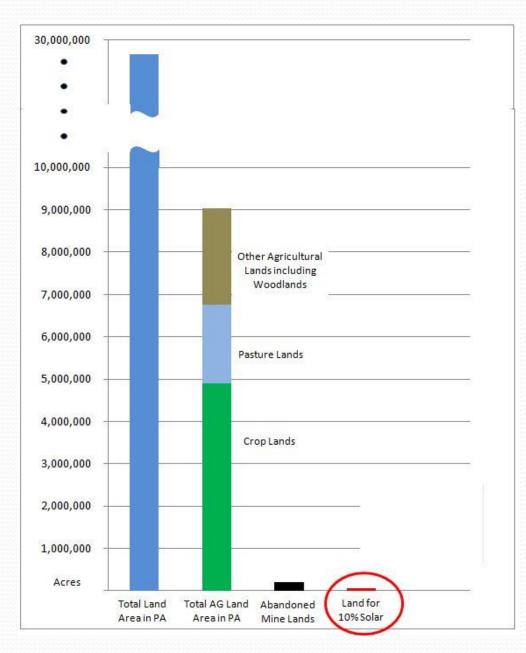
#### Annual Solar PV Capacity (MW) Installed in PA: AC vs DC



#### **National Average Installation Costs for Solar PV**



#### **Great Myth – Solar Farms Will Reduce Crop Yields**



#### **Some Advancements**

**PV Module Efficiency** 

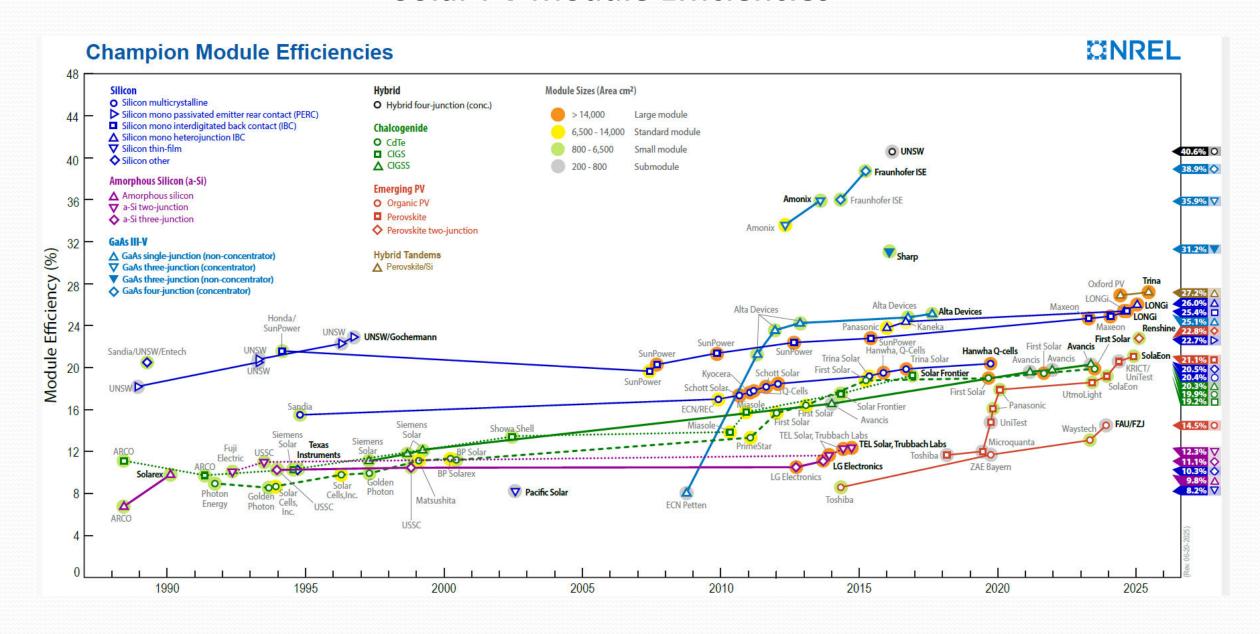
Battery Storage – Grid scale, distribution scale at substations and BTM applications

Micro-grid applications

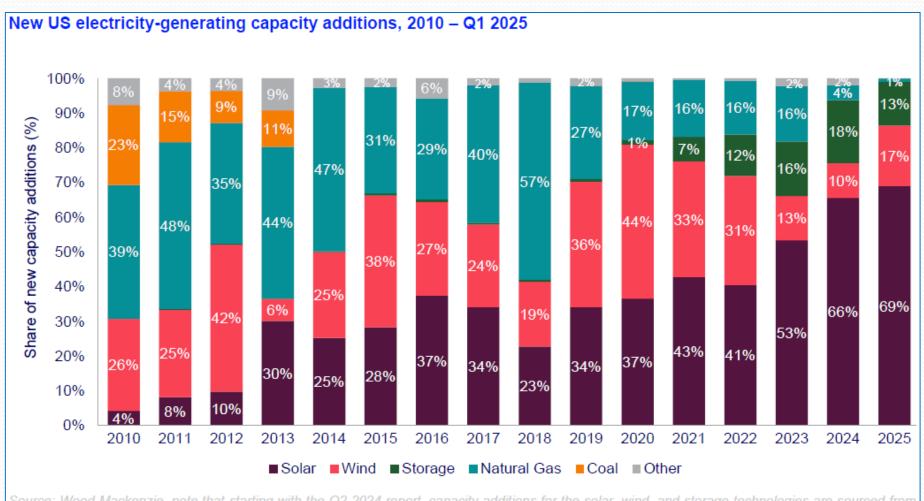
Virtual Power Plant (VPP) applications

Agrivoltaics / Aquavoltaics

#### **Solar PV Module Efficiencies**



#### **Solar PV Continues Dominate and Grow – New Electric Generating Capacity**



Source: Wood Mackenzie, note that starting with the Q2 2024 report, capacity additions for the solar, wind, and storage technologies are sourced from Wood Mackenzie data while all other technologies are sourced from the US Energy Information Administration.

### Thank You!!