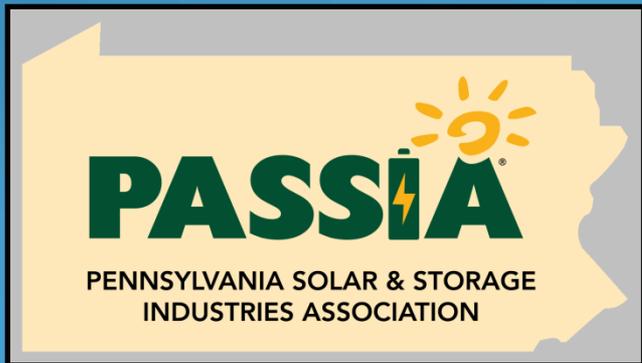


Pennsylvania Update

MSSIA – 1st Qrtly Mtg - 2022



Solar Update Highlights in PA – 2/17/2022

- Current in-state solar PV capacity in PA is **706 MW**, from a total of 32,851 systems, as of 2/16/2022.
- PJM Queue for PA –18.9 GW (511 applications: Active, Engineering/Procurement, and Under Construction-including in partial service); number of applications up 4% since last October (~ 1 GW).
- RGGI in PA – Still one of the primary obstacles for stalling solar policy in PA, along with up and coming budget negotiations and elections (note: redistricting)

-
- PA has officially NEC 2017 and IBC 2018, as of 2/14/2022. So now PA is eligible for utilizing SolarAPP; still have issues with NREL/Sunrun regarding excluding plans and PE stamps; trying to implement a couple of pilots.

-
- Redistricting Maps - Legislative Reapportionment Commission has approved new House and Senate district maps, they still need to be approved by the PA Supreme Court, and all challenges must be exhausted before those maps are made final for the upcoming election in May. But, the new district maps may very possibly have an effect on flipping the House majority to the Dems.....Could be a huge!

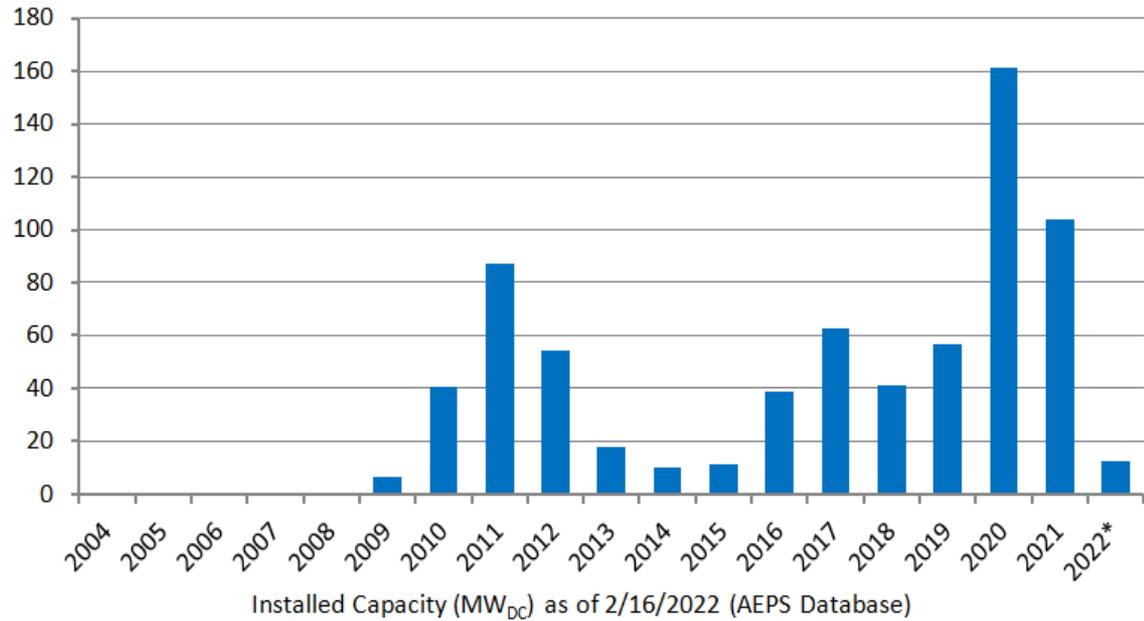
-
- CCA Possible in PA?

Community Choice Aggregation (CCA) programs are bulk electricity purchasing arrangements through which municipalities are empowered to negotiate electric supply rates with power providers on behalf of the residents and business owners within their jurisdiction

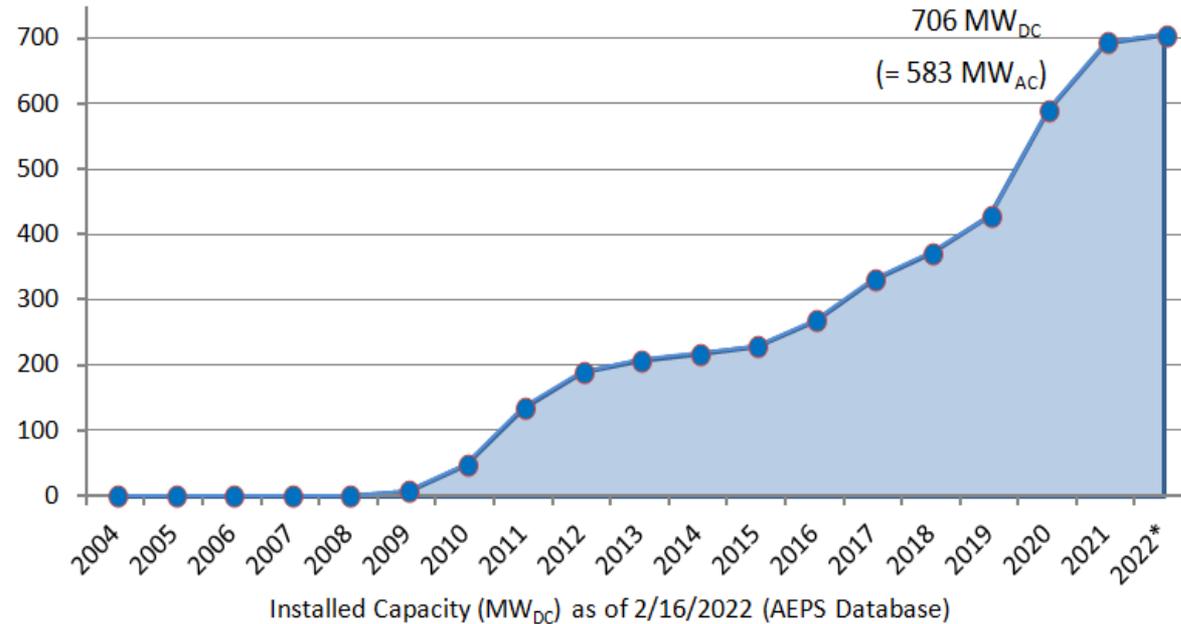
There will be a webinar that will explore CCA's potential to accelerate PA municipalities' transition to clean, local, affordable, sustainable energy in line with Ready for 100% Renewable Energy (RF 100) resolutions

PV Capacity in PA Annual & Cumulative

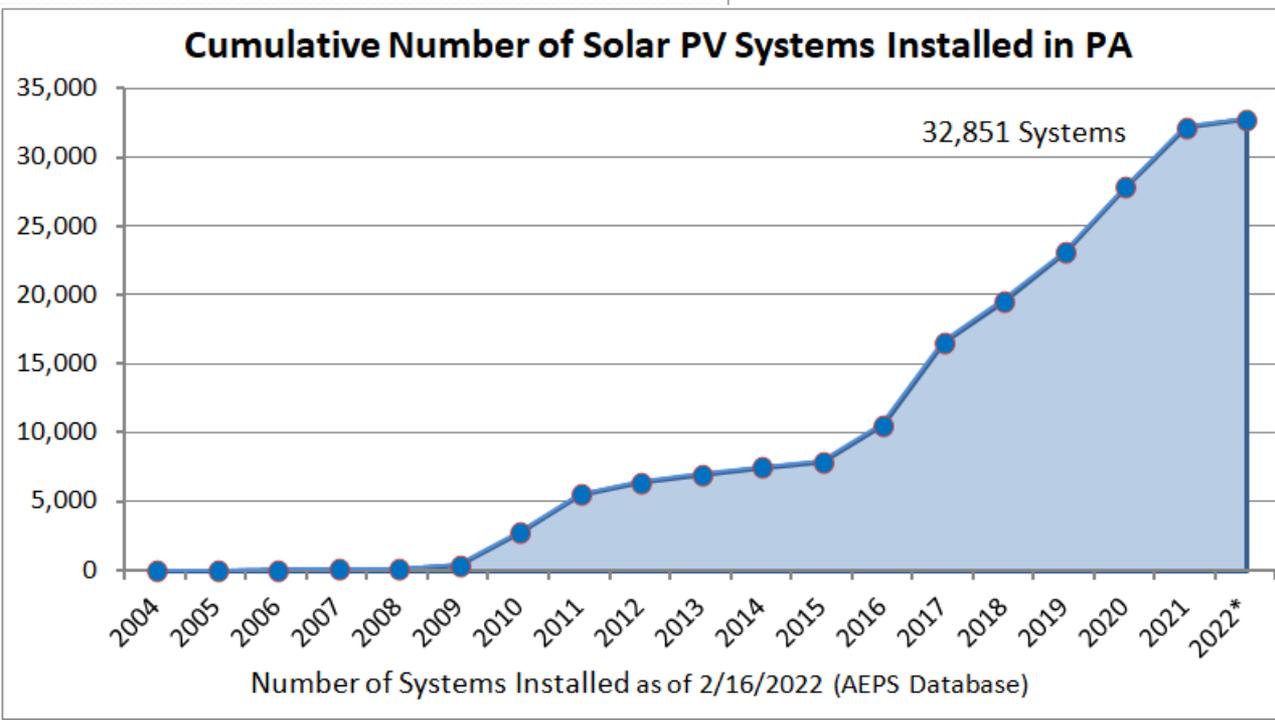
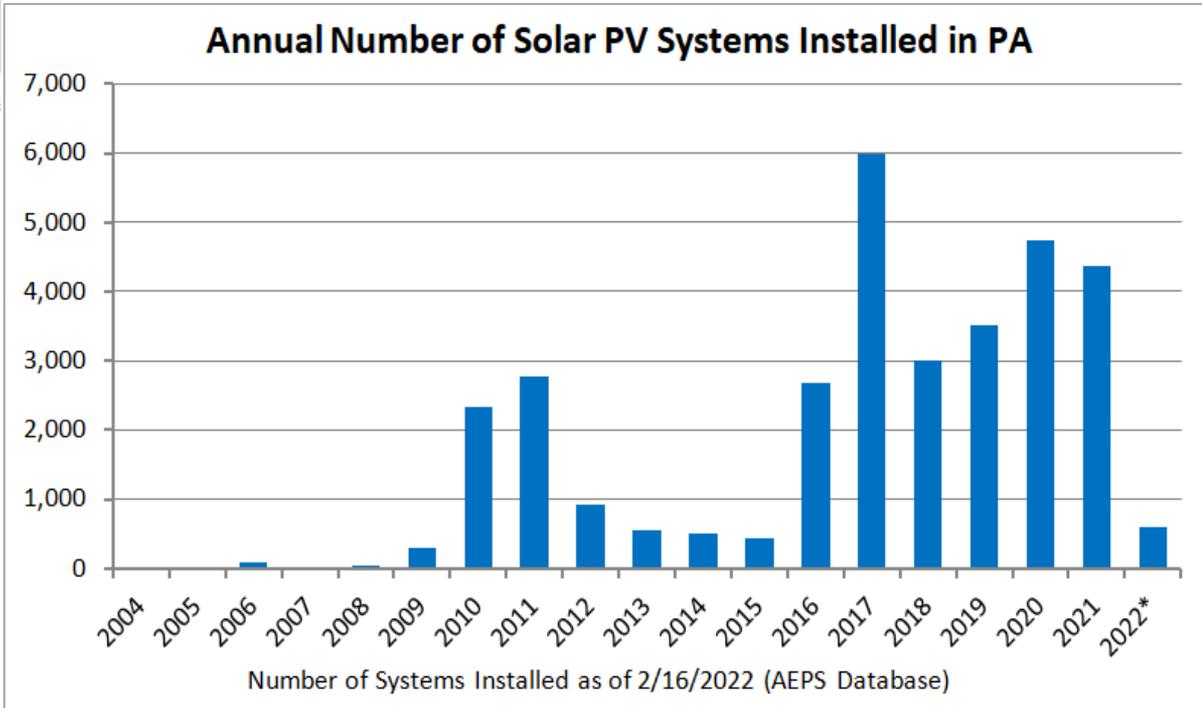
Annual Solar PV Capacity (MW_{DC}) Installed in PA



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



Number of PV Systems in PA Annual & Cumulative



Breakdown Of PV Installations in PA & PJM Queue for PA Solar Applications

PJM Queue for PA

As of 2/16/2022

Status	# of Apps	Max Facility Output (MFO)			Total Cap IC Queue Position
		Total Cap AC MW	Capacity Range		
			Min	Max	
Active	433	17,515	1.0	401.6	8,801
Engineering/Procurement	76	1,191	0.2	150.0	631
Under Construction	2	40	20.0	20.0	21
Part in Srvc - Under Const	0	-	-	-	-
Sub-Total	511	18,746			9,453
In Service	13	195	3.3	20.0	57
Grand Total*	524	18,941			9,510

* Total Applications categorized as "Solar & Storage" = 87

Cumulative PV Installed in PA		
Capacity (DC)	# of Systems	Total MW
≤ 15 kW	27,971	223
> 15 kW to ≤ 250 kW	4,638	151
> 250 kW to ≤ 1 MW	174	85
> 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	32,851	706

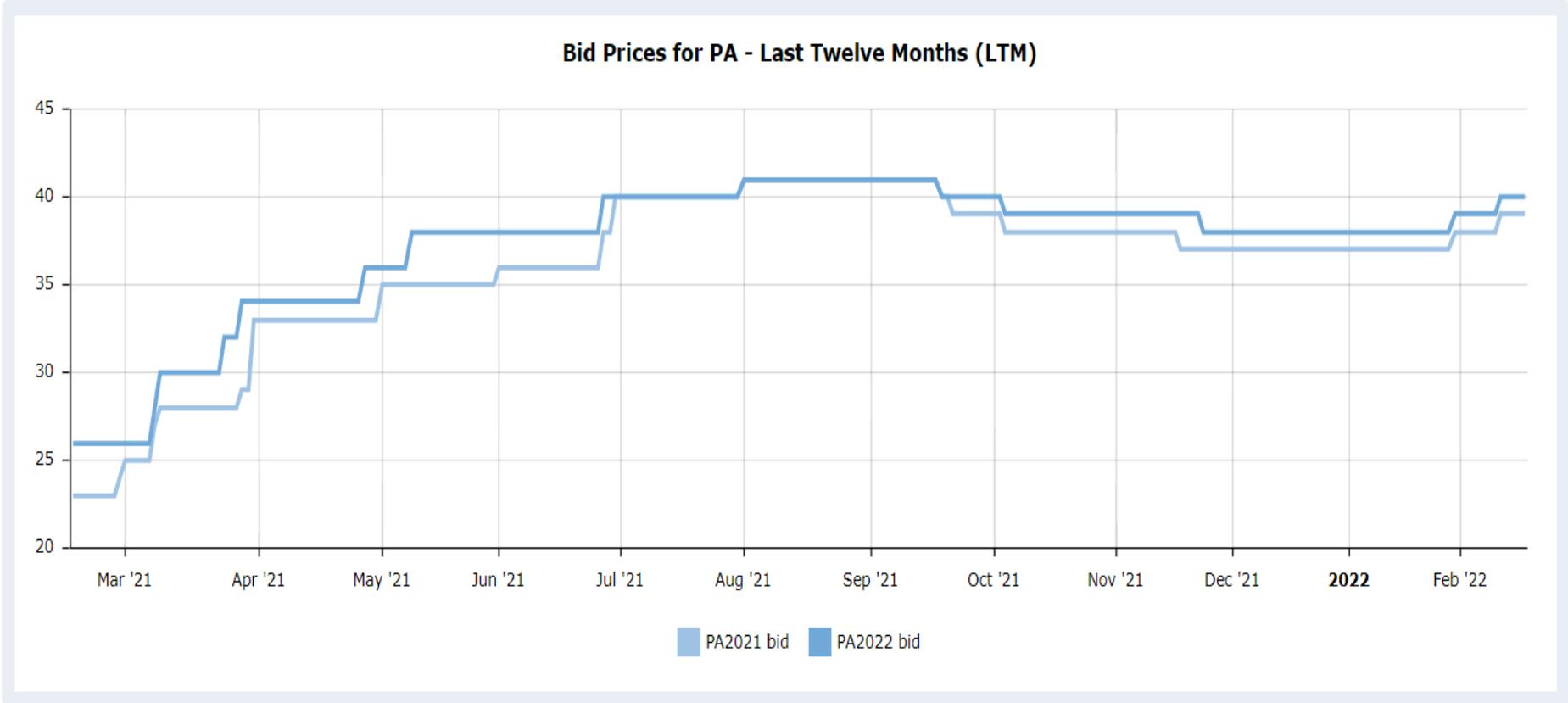
* as of 2/16/2022 as per PA AEPS (PUC)

Current PA SACP = \$76.48/SREC

Current PA SREC Prices

PA

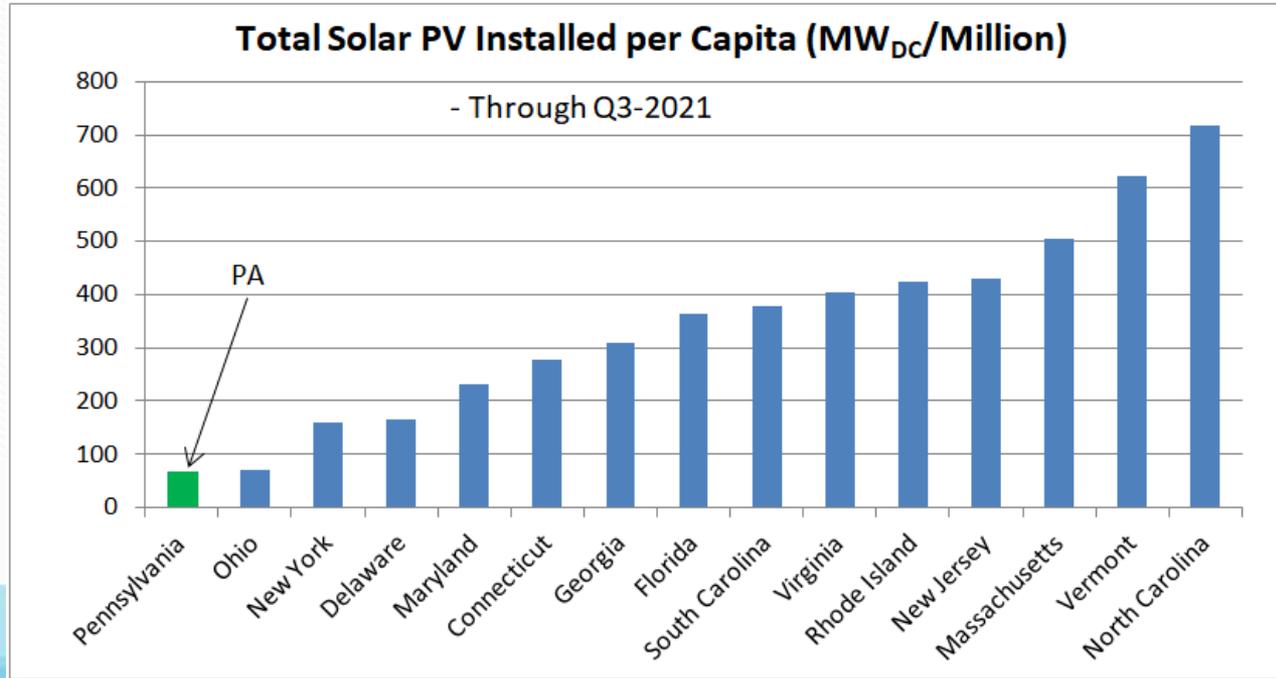
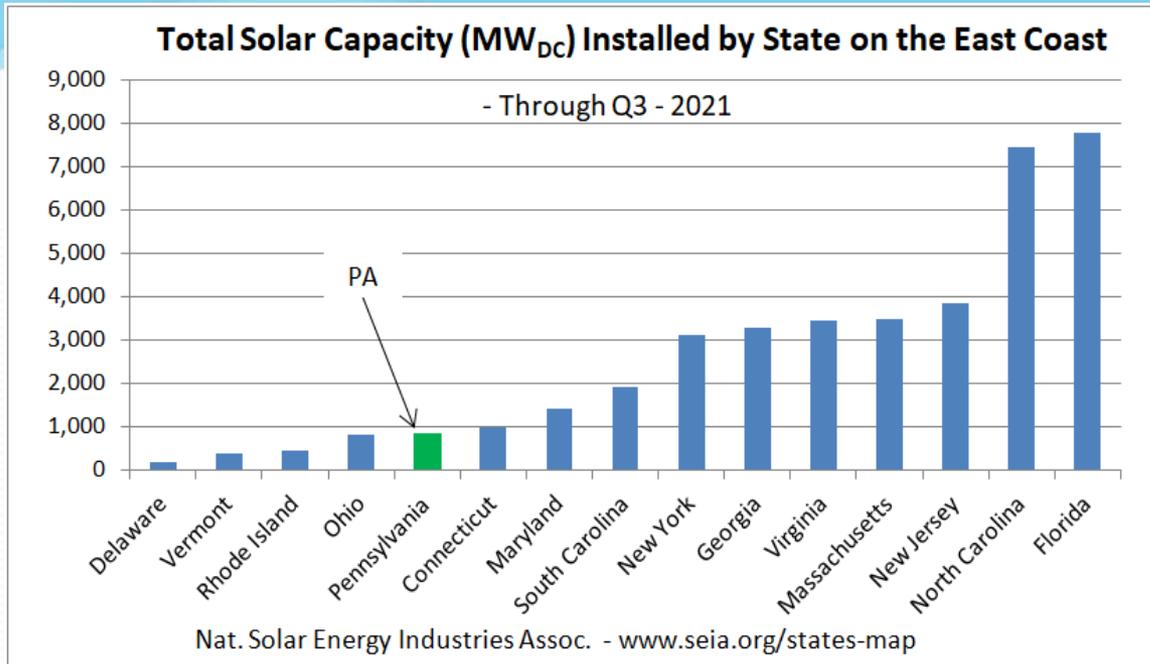
Latest Bid Price: \$40.00



This graph is protected by copyright laws and contains material proprietary to SRECTrade, Inc. All bid pricing and notes included are indicative and subject to change. Please contact us for most current markets. If a market is not quoted herein, please [contact us](#) directly for further information.

Solar in Other East Coast States Compared to PA

Solar in Pennsylvania Ranks 23rd in the Nation



Current Solar Bills in PA – 2/17/2022

Legislative Activity – Solar Bills Introduced in Pennsylvania in 2021

Most likely will not get out of committee for a floor vote.....

Excerpts below from PA Solar Center - *PA State Solar Legislative Guide*:

https://pasolarcenter.org/wp-content/uploads/2021/07/PA-Solar-Center-Solar-Legislative-Guide_070121_1211-2.pdf

Increasing the Renewable Energy Goals in Pennsylvania

- **HB 1080** and **SB 501** (companion bills) increase the renewable energy goals to 18% with the solar carve out set at 5.5% by 2026. The solar carve out is specified that 3.75% would come from utility scale solar and 1.75 % from distributed generation. The bills call for an energy storage study and for the EDCs to enter into long-term contracts for utility scale solar.
- **HB 1394** would increase the renewables goals in the AEPS to 15% by 2030 with the solar carve out for customer generators (distributed generation) only to 2.5% by 2030. This bill does not include an increase in utility scale solar.
- **HB 1531** would create a new renewable energy scheme (different from the AEPS) that would require the addition of 7% renewables with 2.5% coming from distributed solar by 2030. (These percentages are additive to the current AEPS goals). The bill doesn't specify that the solar carve out must be comprised of in-state generation only as is currently in the AEPS. It does not include utility scale solar. There is no Alternative Compliance Payment (ACP) set for the non-solar renewable goals.
- **SB 300** would increase renewables to 30% by 2030 with 10% coming from in-state solar. The bill is similar to SB 501, but with more aspirational goals.

Current Solar Bills in PA – 2/17/2022

Legislative Activity –Solar Bills Introduced in Pennsylvania (continued)

Excerpts below from PA Solar Center - *PA State Solar Legislative Guide*:

https://pasolarcenter.org/wp-content/uploads/2021/07/PA-Solar-Center-Solar-Legislative-Guide_070121_1211-2.pdf

Community Solar/Shared Solar

- **SB 472**– This bill provides the mechanism to allow community solar projects up to 5 megawatts (MW) in PA. Community solar developers could build facilities for which subscribers purchase subscriptions and pay for their allocation of solar on their utility bills. The bill includes provisions for a Grid Service Payment (GSP) of \$0.225/watt (DC) per year that developers would receive from the utility through the first five years after passage of the bill. After that point, the Public Utility Commission (PUC) will calculate a value stack payment that subscribers would receive based on the grid services that community solar project provides and the subscribers would pay that amount. No minimum subscription require
- **HB 1555** – This bill, introduced later, is similar to SB 472 above with a GSP of \$0.18/watt (DC) and an added requirement of a minimum subscription level of 75% for the first year before receiving the GSP. . Some other changes are also included, as compared to SB 472.
- **HB 1161** - This bill allows EDCs to issue proposals from solar developers to build solar projects up to 20 MW within their service and enter into long-term Power Purchase Agreements (PPAs). The EDCs can then solicit their customers to become subscribers to the facility to purchase a portion of the power and be credited on their electric bill, similar to a community solar program, but it is really just a green energy supplier. ***NOTE – the solar industry was not involved with the creation of this bill nor its concept.***
- **HB1396** - This bill permits community solar and is similar to HB 531 from the previous session. It provides for full net metering benefits to subscribers rather than the GSP as described above, but the full net metering provision was controversial for utilities who voiced some opposition to community solar receiving the full net metering benefit.

Current Solar Bills in PA – 2/17/2022

Legislative Activity –Solar Bills Introduced in Pennsylvania (continued)

Excerpts below from PA Solar Center - *PA State Solar Legislative Guide*:

https://pasolarcenter.org/wp-content/uploads/2021/07/PA-Solar-Center-Solar-Legislative-Guide_070121_1211-2.pdf

Solar Bonding Requirements

- **SB284** - This bill requires alternative energy projects included in the AEPS, including solar and wind, that generate power not used for onsite consumption to issue a bond to the Pennsylvania Department of Environmental Protection to cover “hazardous liabilities, decommissioning, to create a reclamation plan, and disposal/recycling of the project.” An amendment to this bill prohibits the use of solar panels that contain polysilicon sourced from the Xinjiang Province in China or that used forced labor in manufacturing.

Solar Panel Recycling

- **SB 530** - This bill calls for solar panels to be added to the state’s “Controlled Device Recycling Act,” which would require solar manufacturers, importers and installers to setup reclamation and recycling programs and include the costs for that in their pricing.

Some Updates – 2/17/2022

Legislative

- **HB 1161 – Local Solar Bill – (not community solar)** - This bill was amended last week, removing the provision that required completion of an apprenticeship program by individuals who are expected to construct a local solar project. Ultimately, this triggered opposition with the unions and it didn't come up for a vote in time before the House adjourned for the week. Will be back for a vote on 3/21. HB 1161 is not a good vehicle for much of any solar penetration, and can be a distraction from moving the community solar bills already in play. Thoughts about merging some of the community solar bill language (SB472 & HB1555) into this bill on the Senate side – Bad idea.
- **SB284 – Solar Bonding/Decommissioning Bill** – Have had several hearing on this topic over the last 6 months. Negotiations are continuing, where SEIA and MEREC are very active, along with the PA Farm Bureau. Originally salvage value was off the table, as part of the bonding assessment calculations, which SEIA actually supported. However, this seems to be loosing up, and some form of salvage value is being considered into the language.



Available Grant Opportunities

Clean Energy Workforce Development Grant (Due 3/14/2022)

The PA Department of Labor & Industry (L&I) announces the availability of approximately \$2,500,000 in funding for the Clean Energy Workforce Development Grant (Clean Energy Grant) to include awards of up to \$500,000 for five (5) grantees.

Schools-to-Work Program Grant (Due 3/15/2022)

The Pennsylvania Department of Labor & Industry (L&I) announces the availability of approximately \$2,500,000 in funding for Schools-to-Work Program (STWP) Grant awards.

See: <https://www.dli.pa.gov/Businesses/Workforce-Development/grants/Pages/default.aspx>

8th Annual PA Renewable Energy Summit

Join the Renewables Work for PA (RW4PA) coalition, the PA Solar & Storage Industries Association (PASSIA), and the Mid-Atlantic Renewables Energy Coalition (MAREC Action) for the

8th Annual Renewables Summit and Advocacy Day
March 14 and 15
Penn Harris Hotel, Camp Hill, PA

REGISTER

The summit brings together industry professionals, NGOs, and decision-makers to discuss important issues to the Pennsylvania renewables market. The event is also a great networking opportunity.

Schedule:

Summit on Monday, March 14, 2022 - Check-In from 9:30 am - 10:30 pm; Summit presentations 10:30-5:00 pm; (Lunch included)
Networking; 5:00 pm - 6:30 pm with cash bar (appetizers included)
Optional Dinner offsite (location TBD) on Monday, March 14, 2022 (self-pay but reservations required)
Summit on Tuesday, March 15, 2022 – Continental breakfast (included) from 8:00am-9:00am; Presentations: 9:00 am to 12:00 pm (continental breakfast included)

AGENDA

Topics (speakers bring confirmed; check back for updates):

PA Legislative Updates for increasing renewables goals, bonding requirements and community solar
Energy Storage

Aquavoltaics: Developing Floating Solar

Workforce Training and Increasing Diversity in the Solar Industry

Renewables on Contaminated Lands: Brownfield, Abandoned Mine Lands and Landfills: Bryan Wehler, President and CEO ARM Group (confirmed); other speakers being confirmed

PA 2022 Building Code Updates and Streamlined Solar Permitting (NREL's) Solar App - Ron Celentano, Philadelphia Solar Energy Association; other speakers being confirmed

PV Recycling & Reuse

PJM Queue Updates

Other topics

