

# State of Play on Renewable Energy

## Environmental Law Forum 2019

### Harrisburg, PA

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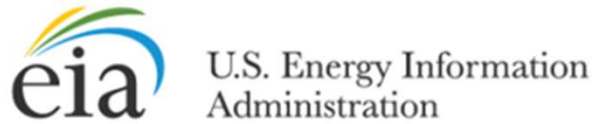


April 4, 2019

# PA Timeline Since Deregulation

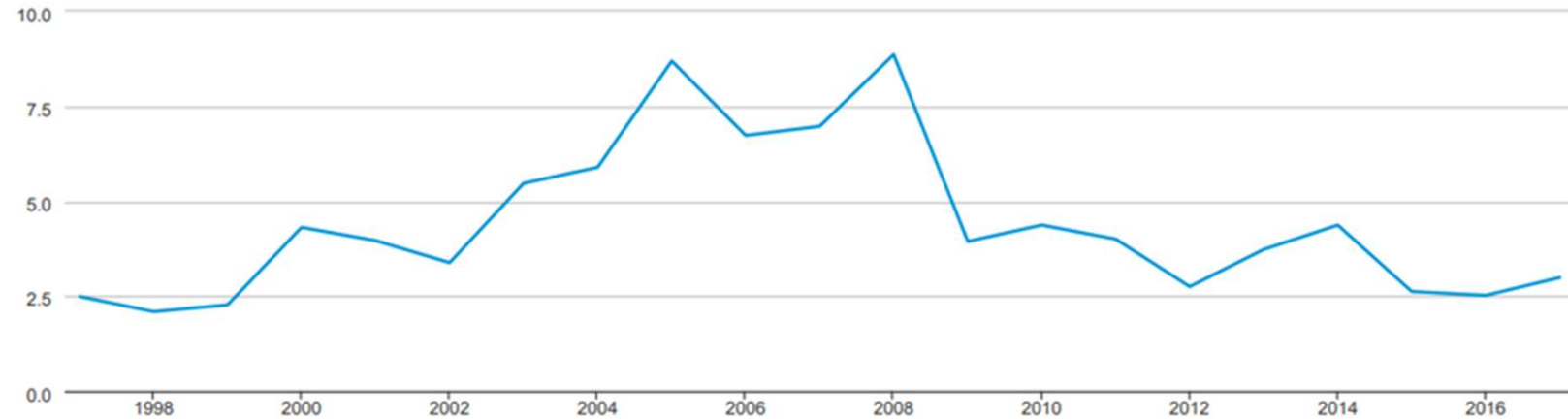
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Henry Hub Natural Gas Spot Price (Dollars per Million Btu)



## Henry Hub Natural Gas Spot Price

Dollars per Million Btu



PA Market Deregulated in 1996



10 year cost caps for large utilities who sought stranded cost recovery for nuclear plants

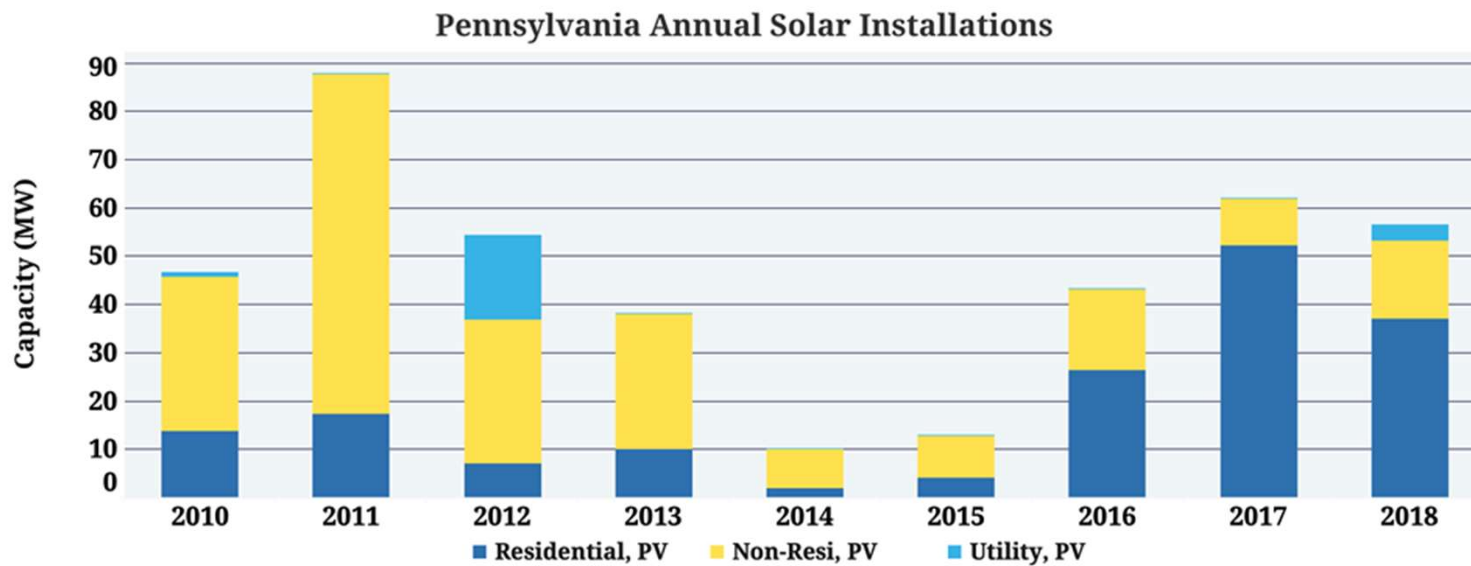
Since 2010, NG gas prices are stable and near historically lows

## PA Renewable Demand

- Pennsylvania's Alternative Energy Portfolio Standard (AEPS) passed in 2004 - the standard calls for 18% of electricity through alternate resources by May, 2021
- Waste Coal and LFG are good examples of how AEPS spurred industry to solve PA environmental problems
- AEPS has a solar carve out of 0.5% by 2021

# PA Solar at a Glance

	PA	NY
Solar Installed	420.2 MW (56.6 MW in 2018) <sup>i</sup>	1,628.0 MW (372.9 MW in 2018) <sup>i</sup>
National Ranking	22nd (26th in 2018)	10th (6th in 2018)
Percentage of State's Electricity from Solar	0.24% <sup>ii</sup>	1.40% <sup>ii</sup>



<sup>i</sup> All data from SEIA/GTM Research U.S. Solar Market Insight unless otherwise noted: <http://www.seia.org/research-resources/ussolar-market-insight>

<sup>ii</sup> Energy Information Administration, Electric Power Monthly: <http://www.eia.gov/electricity/monthly/#generation>

## PA Solar Opportunity

- Solar costs have declined 80% since 2004 – close to 50% in the last 5 years
- ITC is 30% through 2019, then steps down to 26% in 2020, 22% in 2021
- PA utility scale solar long term contracts recently priced at 4 to 5 ¢/kWh
- PA solar can provide customers with a hedge against exposure to future NG price volatility