

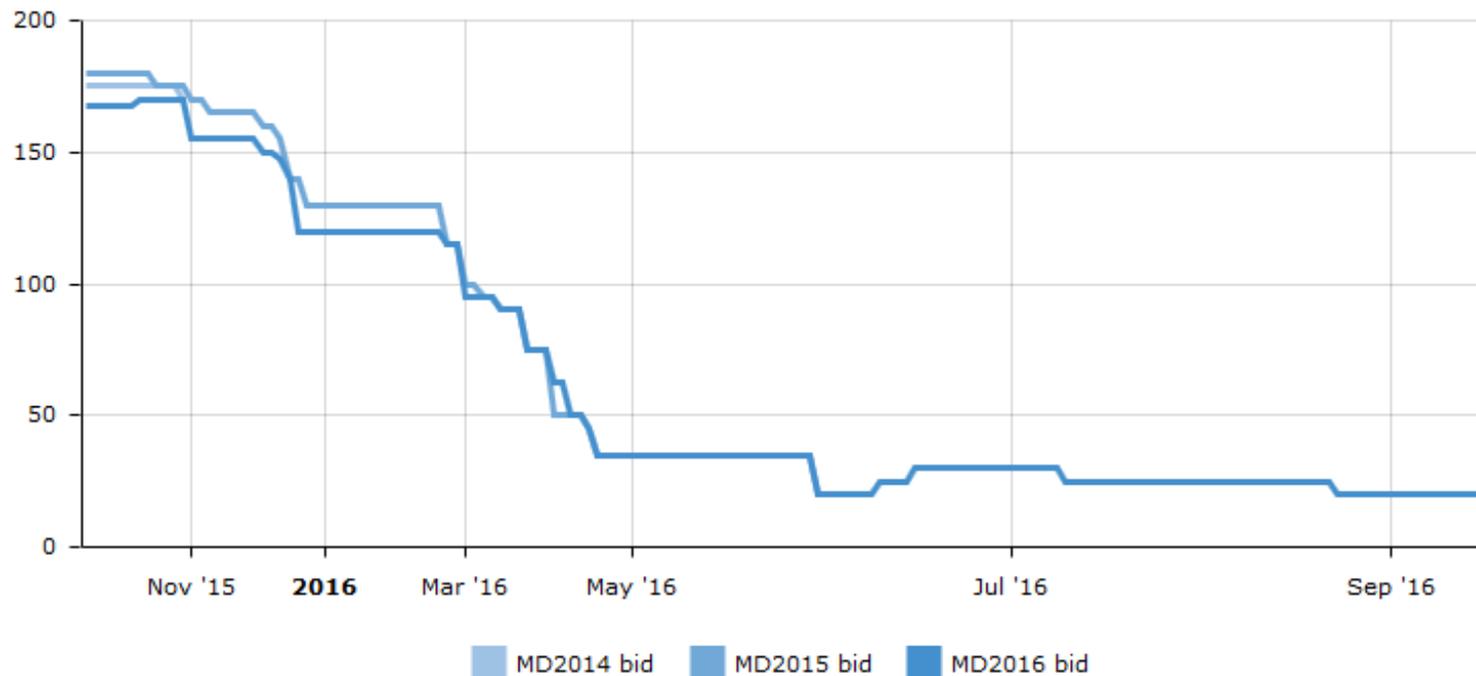
# Pennsylvania SREC Update

6/27/2017

**Estimate of Ratepayer Impact from  
From Essentially Meeting The PA AEPS  
Solar Requirement from Only PA Solar  
PV Systems**

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### Bid Prices for MD - Last Twelve Months (LTM)



# PA RATEPAYER IMPACT COST ANALYSIS FOR SREC PURCHASES IN YEAR 2021

## Based on PUC 2015 AEPS Annual Report

TABLE 7: ESTIMATED STATEWIDE AEPS COST OF COMPLIANCE IN 2021\*

EDC	Solar Credits		Tier I Credits		Tier II Credits		Total Cost
	Credits Needed	Solar Credits @ \$20	Credits Needed	Tier I Credits @ \$20	Credits Needed	Tier II Credits @ \$0.20	
Duquesne	67,141	\$842,505	1,007,119	\$ 12,637,577	1,342,825	\$168,501	\$ 13,648,583
Met Ed	70,837	\$888,876	1,062,550	\$ 13,333,141	1,416,733	\$177,775	\$ 14,399,792
Penelec	70,792	\$888,322	1,061,887	\$ 13,324,827	1,415,850	\$177,664	\$ 14,390,813
Penn Power	24,069	\$302,029	361,042	\$ 4,530,438	481,389	\$60,406	\$ 4,892,873
PECO	194,027	\$2,434,701	2,910,408	\$ 36,520,521	3,880,544	\$486,940	\$ 39,442,163
PPL	185,630	\$2,329,331	2,784,449	\$ 34,939,958	3,712,599	\$465,866	\$ 37,735,154
UGI	5112	\$64,152	76,686	\$ 962,276	102,248	\$12,830	\$ 1,039,258
West Penn	114,875	\$1,441,481	1,723,126	\$ 21,622,214	2,297,502	\$288,296	\$ 23,351,992
Citizens'	942	\$11,822	14,132	\$ 177,328	18,842	\$2,364	\$ 191,515
Pike County	408	\$5,116	6,116	\$ 76,742	8,154	\$1,023	\$ 82,882
Wellsboro	635	\$7,969	9,526	\$ 119,535	12,701	\$1,594	\$ 129,098
<b>Totals</b>	<b>734,469</b>	<b>\$9,216,304</b>	<b>11,017,041</b>	<b>\$138,244,557</b>	<b>14,689,388</b>	<b>\$1,843,261</b>	<b>\$149,304,122</b>

\* Estimated costs reflect application of a 6% discount rate

# PA RATEPAYER IMPACT COST ANALYSIS FOR SREC PURCHASES IN YEAR 2021

## Based on PUC 2015 AEPS Annual Report

Given that 734,469 SRECs are needed by 2021, which by definition equals 0.5% of all electric sales in PA, then total PA electric sales can be back-calculated.

All costs in 2016 dollars.

2021 SREC Requirement (PUC 2015 AEPS Report)	734,469	MWh (= SRECs)
2021 SREC Requirement	0.005	(0.5% in 2021)
Total Electric Sales in PA - 2021 (back calculated)	146,893,800	MWh

Assumed SREC Price in 2021 (Only PA SRECs)	\$50	
Assumed SREC Price in 2021 (Status Quo)	\$10	
Increase of Total Cost to Purchase SRECs in 2021	\$29,378,760	
Bill line item cost for purchasing 2021 SRECs	\$0.0002000	\$/kWh

Typical PA Residential Customer Usage	10,000	kWh/yr
	833.3	kWh/month

Residential bill increase for 2021 SREC costs	\$0.17	per month
	\$2.00	per year

NOTE: The PUC Electric Power Output for Pennsylvania - 2014-2019 forecasts the total electric consumption for residential, commercial and industrial customers totally to 143,533 GWh in 2019, based on a 0.44% growth rate. Using this escalator to further forecast the three sector total consumption would yield 143,790 GWh in 2021. This is significantly lower than the back-calculated 152,564 GWh total sales shown above, which would result in even lower customer bill increases.