

Output total of all single-directional solar projects online is 849,974 kW AC. Using that value, and an assumed Capacity Factor of 23.5, we have many optimized tracking systems and non-optimized fixed tilt systems. The Daily kWh came out to 719,078 with lost kWh from the eclipse estimated at 719,078. See the details below.

<b>kW AC:</b>	849,974
<b>Capacity Factor:</b>	23.5
<b>Annual kWh:</b>	1749756476
<b>Daily kWh:</b>	4793853
<b>85% of Daily kWh:</b>	4074775
<b>15% of Daily kWh (lost):</b>	<b>719078</b>
<b>@ 5 cents/kWh:</b>	\$35,953.90

The five profiles are aggregated (shown below) then a straight line estimation was applied across the profile (not entirely accurate, but close). It's estimated we lost about 15% from a typical day's production from the entire facility. Bumping this up to a clear sky model and an eclipse obscuration model would yield more accurate results, but we'd need more time for that analysis.

I suggest using an estimate of daily MWhs from all our plants and apply the 15% in lost generation across all projects for one day. The UGA site has higher-end equipment and technologies that should yield higher MWhs. As such, I'm comfortable with the slight irregularity in the straight-line slope. Seems like a quick way to gain an estimation.

UGA Solar - August 21, 2017 - Solar Eclipse  
99% Obscuration at 2:38 PM EDT

