West Virginia Solar Industry Growth
WHY SOLAR POWER MAKES SENSE

• Every hour enough solar radiation strikes the surface of the earth to satisfy global power demand for one full year. (NREL)

• Solar Power is distributed power (it is produced where you need it).

• Solar Power “flattens” the demand curve (it is produced when it’s needed most).

• It is a domestic power source!
Energy from the sunlight is captured by the solar panels and turned into usable electricity by inverters.

1. When panels are producing more electricity than the house is using, it flows into the grid through a net meter, possibly generating a credit on your utility bill.

2. The electricity produced by the inverters can be used to power any electrical load in the house.

3. With the emergence of electric vehicles, electricity from solar panels can be used to charge your car, replacing much more expensive gasoline.

4. How Solar Works

© Mountain View Solar 2012
WHY SOLAR IS GROWING IN WV

• Solar is a way to lower your electric bill forever

• Federal and state tax credits help to offset initial cost

• Solar can be a source of back up power when the grid is down

• Solar is installed by building and electrical contractors and is a good job creator in WV

• Solar doesn’t work without a baseline fuel source
Industry Growth 2009-2012

- 2009 less than 50kW PV installed state-wide, mostly residential
- 2010 WV residential solar state tax credit enacted.
- 2012 Over a Megawatt (1,000 kW) of solar currently in WV
- 1 megawatt creates enough energy to power 100 homes per year, for over 40 years.
Residential Solar
8.93kW 38 Panel
12 Solar Panels creates enough fuel to run this Electric Vehicle 15,000 miles a year for 40 years
EV Charging Stations at APUS
EV Charge Stations at Martin Distributing
EV Charge Station in Garage
Solar Battery Backup
Scott’s Run Settlement House
3.96kW 18 Panel
Warm Springs Middle School
1.8kW 8 Panel
Department of Environmental Protection
25.38kW 108 Panel
Department of Environmental Protection
25.38kW 108 Panel
Appalachian Offroad

Solar Array Consisting Of
144 American Made Solarworld 220watt Solar Modules
Producing Approximately 36,750 kWh Annually

1.877.96.SOLAR www.mtvsolar.com
257 JR Hawvermole Way Berkeley Springs WV 25411
Morgan County Courthouse
25.38kW 108 Panel
Brown’s Funeral Home
25.38kW  108 Panel
Hurricane Waste Water Treatment Plant

19.74kW 84 Panel
APUS 407kW system- 1600 panels
West Virginia’s largest solar array