

*** SOLAR EZ-TILT FACT SHEET ***

COMPARISON OF SOLAR ENERGY HARVESTING WITH “EZ-TILT” Vs ROOF MOUNTING

“Typical” residential roof case annual harvested = 3434 KWH (or 286 per month)

- Roof pitch = 10/12
- Roof orientation = Southwest (Azimuth = 225 degrees)

“Worse” residential roof case annual harvested = 2779 KWH (or 232 per month)

- Roof pitch = 12/12
- Roof orientation = due West (Azimuth = 270 degrees)

“EZ-TILT” ground mounting case annual harvested = 3875 KWH (or 323 per month)

- PV Tilt angle = 10 deg. Below Latitude (or 4 tilt adjusts annually)
- PV = Installed and set at due South (Azimuth = 180 degrees)
- Even fixed optimum tilt is only 4% less than four adjusts annually
- EZ-TILT gain is 39% over “worse” and even 13% over “typical”
- Thus: 13% to 39% less PV panels needed (and resulting B.O.S. costs!)

THUS ... EZ-TILT IS:

“MAKING ADJUSTABLE GROUND MOUNT PV MORE EFFECTIVE THAN ROOF MOUNTING !”

Notes:

- PV array size is 3200 watts
- NREL’s “PV WATTS” used to calculate energy harvested
- Harvested energy is in KWH annual (Kilo-watt-hour)
- Atlanta, GA location, Latitude = 33.5 deg.
- Four annual, approximately quarterly, tilt adjustment angles supplied per location
- Request detailed, monthly test data, spreadsheet for exact parameters