

# **Technical Assistant Request**

## *Progressive Power Products llc*

*Jimmy Chandler*

325-232-2393

JC@CoopSolarPower.com

### **Objective:**

Correct any design issues that appear during field testing. Conduct laboratory testing to prove functionality ruggedness and cyber-security as a precursor to UL and NERC-CIP certification.

**Anticipated scope of work:** To be a joint project between a national laboratory, The University of Texas, and PecanStreet.org's PLATFORM program.

### **Tasks:**

1. Correct any design issues that appear during "SET" field testing.
2. Prepare the product for UL certification.
3. Prepare wireless web-server chip and programming for fortified cyber-security and NERC-CIP certification.
4. **NREL or Sandia data request:** This product is capable of monitoring and control of high-voltage solar DC systems. As such, Progressive Power Products llc hopes to obtain voltage/current characteristics of known problems on solar systems such as diode-failure, soiling, PV-cell failure etc. We understand that both NREL and Sandia National Laboratories may have already conducted the research to collect this data. We hope to enable this device to identify and send appropriate alarms to notify PV system operators of these issues for improved operation and maintenance of these systems.

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**5. Manufacturing request:** Progressive Power Products LLC needs an affordable American-made PCB manufacturer with a pick-and-place machine to produce these devices. We will need qty-50 of these devices for field testing deployment at Midwest Solar Power LLC site and at PecanStreet.org PLATFORM Program. After field testing and in the “Go” portion of the competition we will need this manufacturer to produce larger sizes and quantities to fill anticipated orders at utility-scale solar plants.