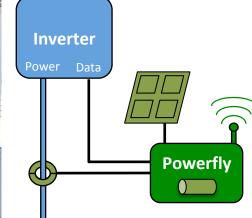
Powerfly: A Plug-And-Play Solar Array Monitoring Device

Solar, Embedded Systems, IoT, Cellular, Energy Harvesting

- Goal: support the solar industry by providing reliable and affordable monitoring
- Soft costs and O&M are a large burden on the solar industry
- Monitoring systems today are expensive and difficult to deploy
- We propose the Powerfly, the first truly plugand-play communications gateway for the solar industry
- Features energy harvesting technology via CT and/or integrated solar, an embedded cellular modem, backup battery, and web interface
- Current partners: LBNL, Spectrum Energy, UC Davis



Solar Monitoring Today -Requires dedicated power from breaker panel -Requires setting up mesh network, lacks security -Cost: \$1000 per inverter James D'Albora, james@verifyenergy.com Daniel Gerber, daniel.l.gerber@gmail.com



Powerfly

+Energy harvesting via CT and/or integrated solar +Backup battery for outages +Secure cellular uplink +Cost: \$500 per inverter +10x faster installation