

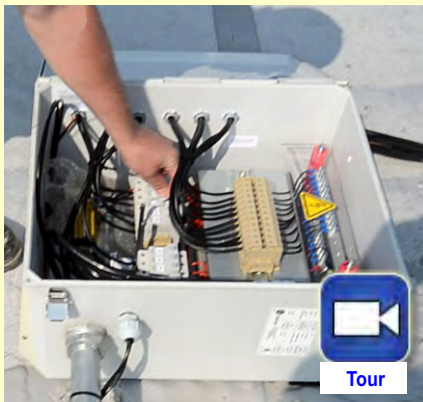
Solar PV Monitoring - Retrofit Now

With the peak output season for solar PV generation just starting, system owners want to know that their sites are producing at 100% capacity. A [SolarVu energy portal](#) will send an immediate alarm if any inverters signal a fault. [PowerWatch™](#) compares inverter outputs to detect faulty strings. When faults are detected, diagnostic tools like the [30 day inverter log](#) help O&M staff quickly find and restore equipment operation to minimize lost revenue. Get a [daily output report](#) by email to check performance instead of waiting a month to find that the LDC payment is below expected due to an undetected fault.

If your [current monitoring system is not adequate](#), a SolarVu energy portal can be quickly installed and operational at an existing site. Systems start at \$1,295 for 10kW microFIT and \$2,195 for >20kW. [Contact us](#) with system details to get a SolarVu quote to maximize revenue from your generation

SolarVu monitors equipment and emails an alarm when faults are detected

So what can go wrong? A lot!



STUFF HAPPENS

EQUIPMENT FAILURE

- Inverter failure
- Solar panels fail
- Corroded connections
- Loose connection = overheating, fire hazard
- Equipment left off after maintenance
- BOS equipment failure sensors, meter, etc

ENVIRONMENT

- Combiner box water ingress
- Arc fault shutdown - needs manual reset
- Rodent chews through panel wires
- Lightning damages equipment
- Grid issues shutdown - under/over voltage
- Snow cover / dirt buildup

COMMUNICATIONS

- Loss of internet connection
 - Router settings changed / network failure
- 3G SIM card disconnected non-payment
- Weak reception in rural areas
- Equipment loss of communications
 - Faulty connection, incorrect settings
 - Noisy environment, data corruption
 - Inverter design - firmware bugs

GETTING PAID

- LDC payment low - meter fault / accounting
- LDC SCADA problem = shutdown by LDC
- RMA for warranty claim - support data

Effective O&M reduces expensive downtime.

REVENUE LOSS FROM FAULTY EQUIPMENT

(FIT2=\$0.64/kWh)

- 1 String 4,500kWh/yr = **\$2,500/yr**
- 25kW inverter 31MWh/yr = **\$18,000/yr = \$1,500/mo**
- 200kW site shut down 1,200kWh/summer day = **\$760/day**