

Photo Voltaic Management

Monitor output of PV arrays to detect and alert on equipment and production problems.



Problem

- + Need to monitor PV arrays across entire distribution grid
- + Need detect equipment problems (especially inverter failures)
- + Need to check output against equipment ratings
- + Need to correlate output over all PV arrays to account for cloud cover and weather patterns

Why Fractal

Fractal Programming performance enables real-time monitoring and alerting of all PV meters.

Machine learning on generation patterns to detect and categorize equipment issues.

Automated alerting and alarming at scale of entire customer base.

Analysis includes equipment type and correlation with other similar PV arrays.

Solution



Virtual meter capability enables easy definition of PV groups



Analysis performed on both daily and interval data

Analysis by equipment type and program participation



Automated alerting when equipment issues detected

Impact



Increased customer satisfaction due to identification and alerting of equipment issues.



Increased and more predictable PV output.

