solar analytics

Data driven diagnostics

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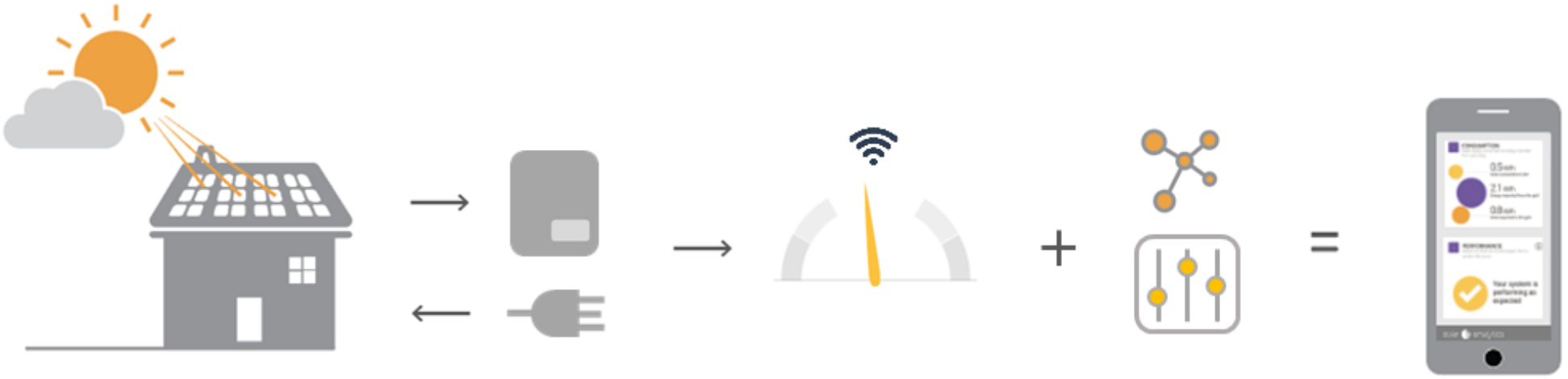
Introduction

- More than 44,000 sites
- Genuine solar veterans
- 20+ years R&D
- 10x growth per annum
- 38 staff and 9PhDs
- 4 countries
- 900 Resellers
- 1 Wholesaler
- 4 energy utilities
- 2 university partnerships
- 1 amazing team

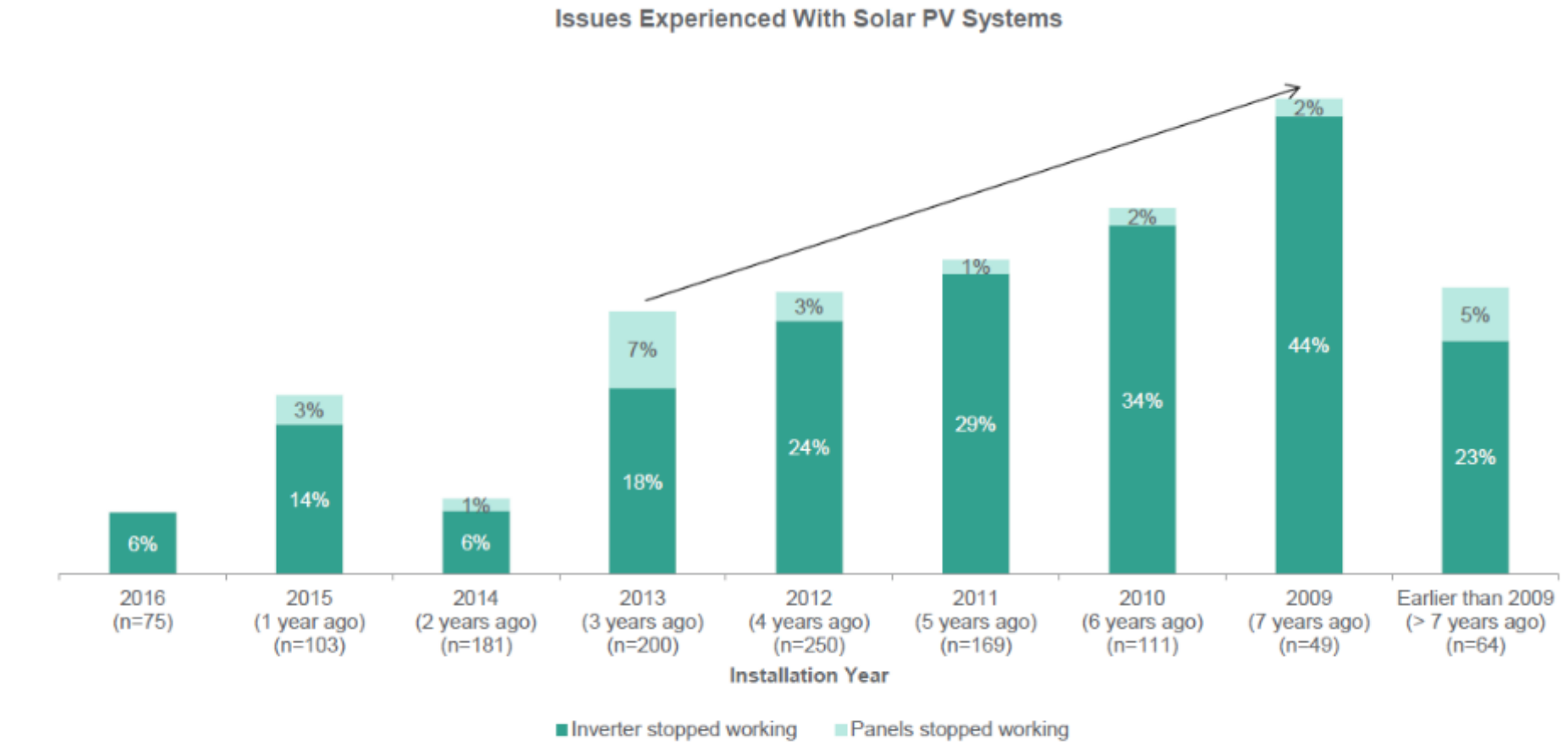
Monitoring solutions

- Via our highly flexible 4G hardware
- Via inverter modbus to 4G
- Via inverter wireless to API
- Via NMI meter modbus to 4G or API



1.Rooftop solar 2.Generation & Consumption 3.Solar Smart Meter 4.Algorithms & Control 5.App

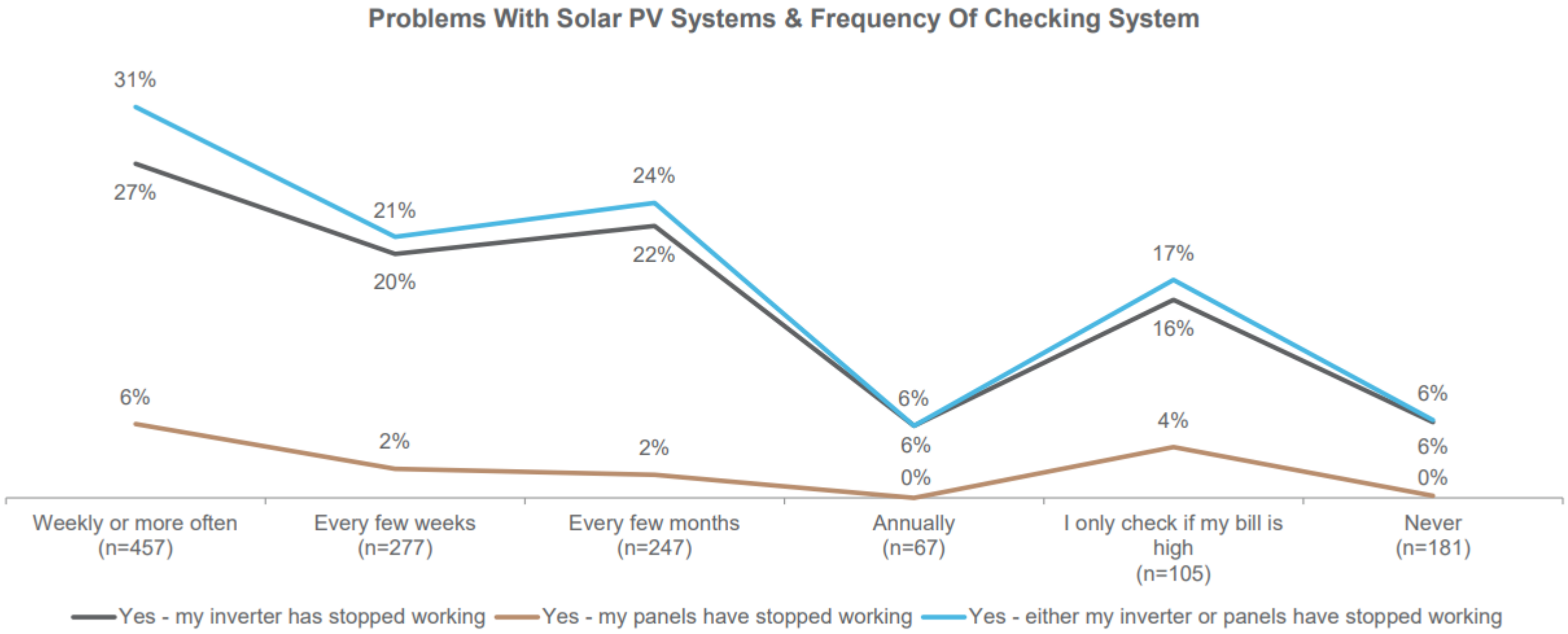
No one expects things to go wrong, but….



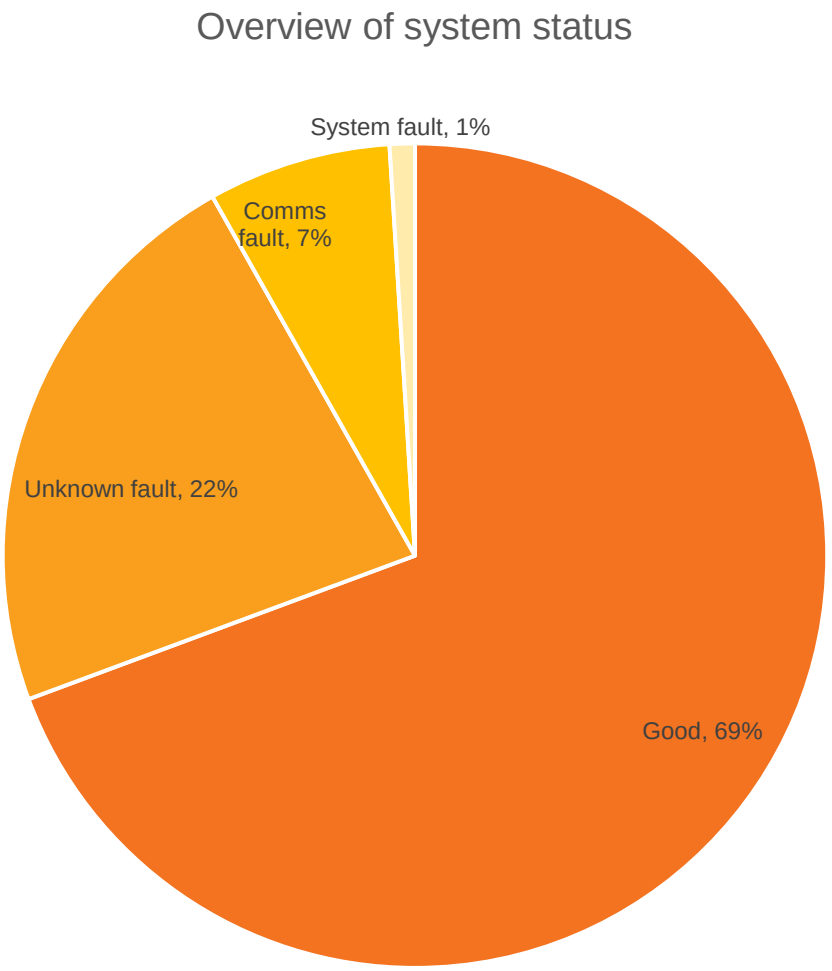
Q58. Has your solar PV system ever stopped working and required repairs or replacement? Base: Solar PV households

colmar brunton.

No one expects things to go wrong, but….



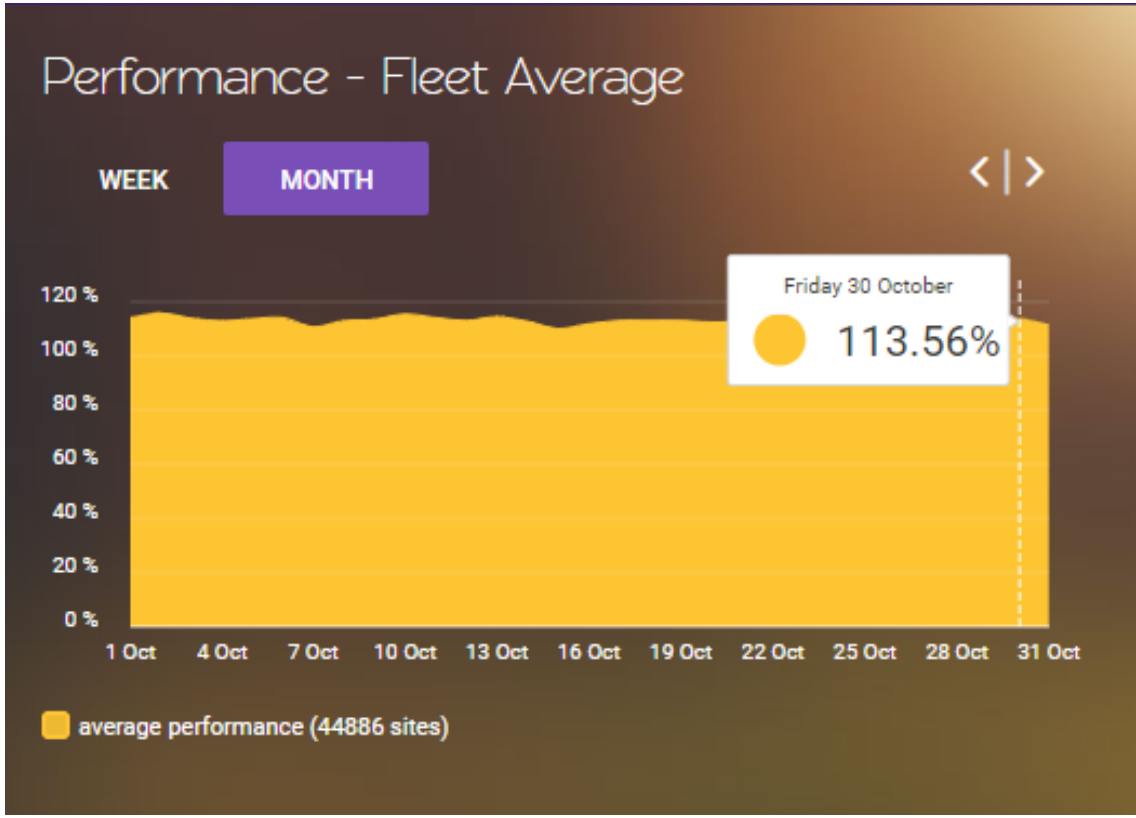
Within our fleet….



98.7%
19

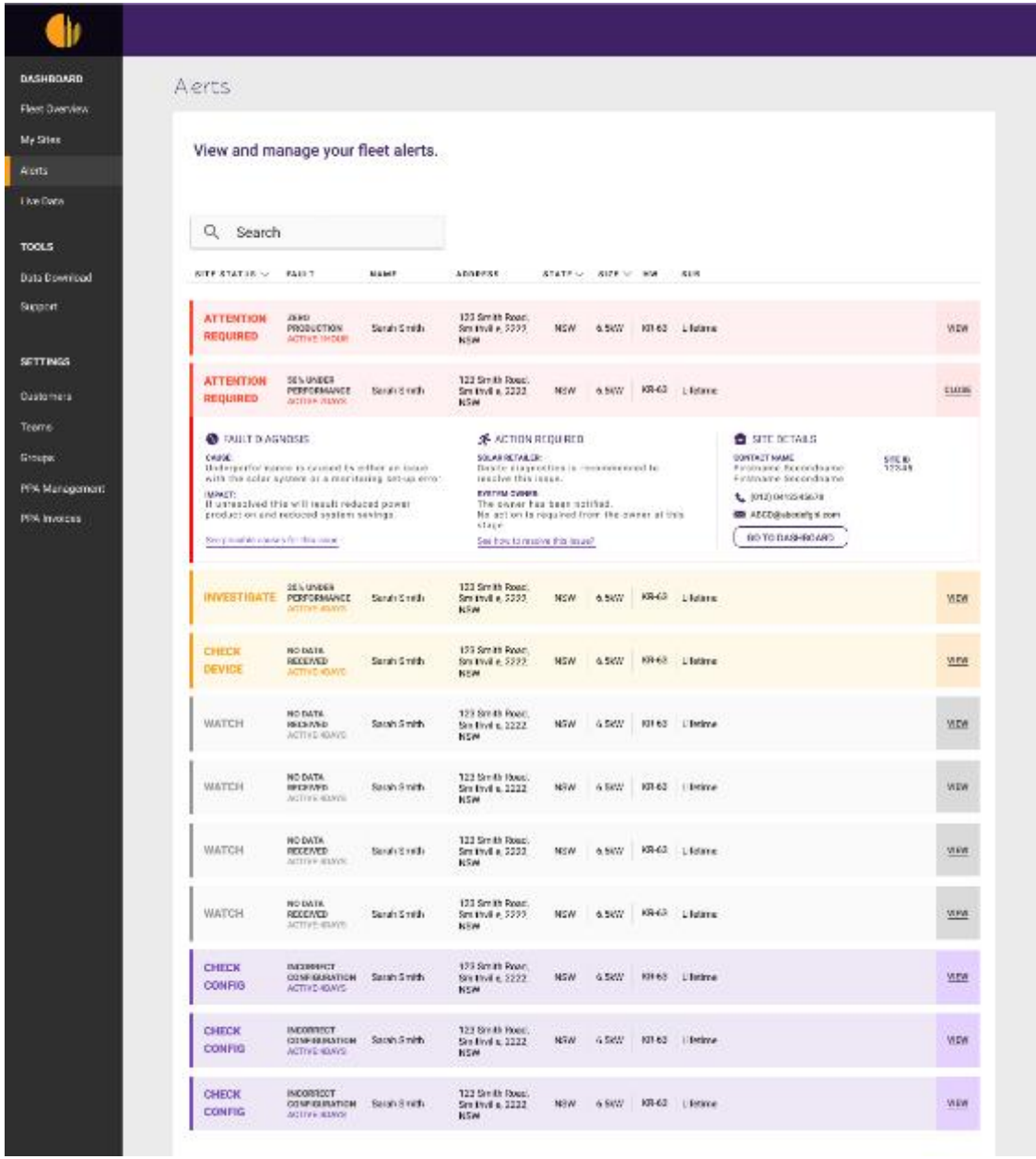
Using data for warranty

- is it really a problem?
- how do I get evidence?
- how big is the problem?



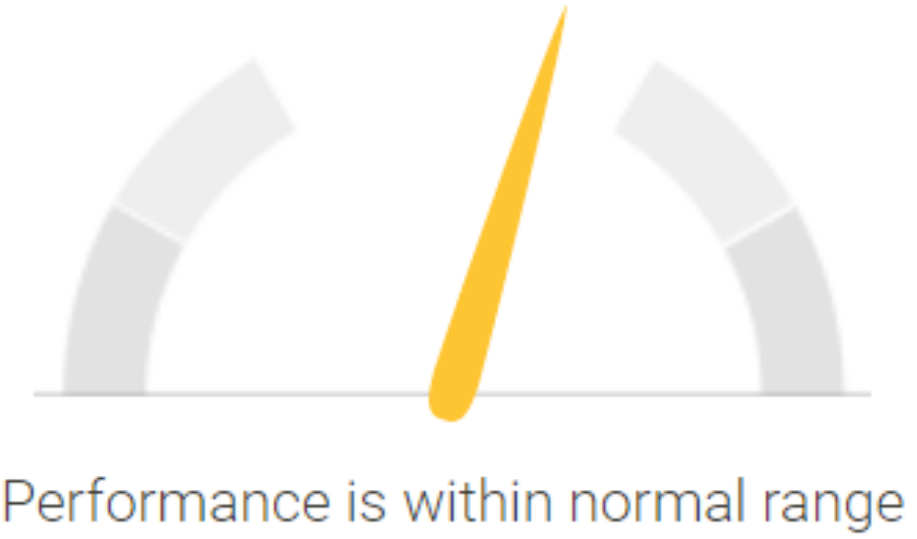
Dive deeper

- severity rating
- performance or fault
- dynamic



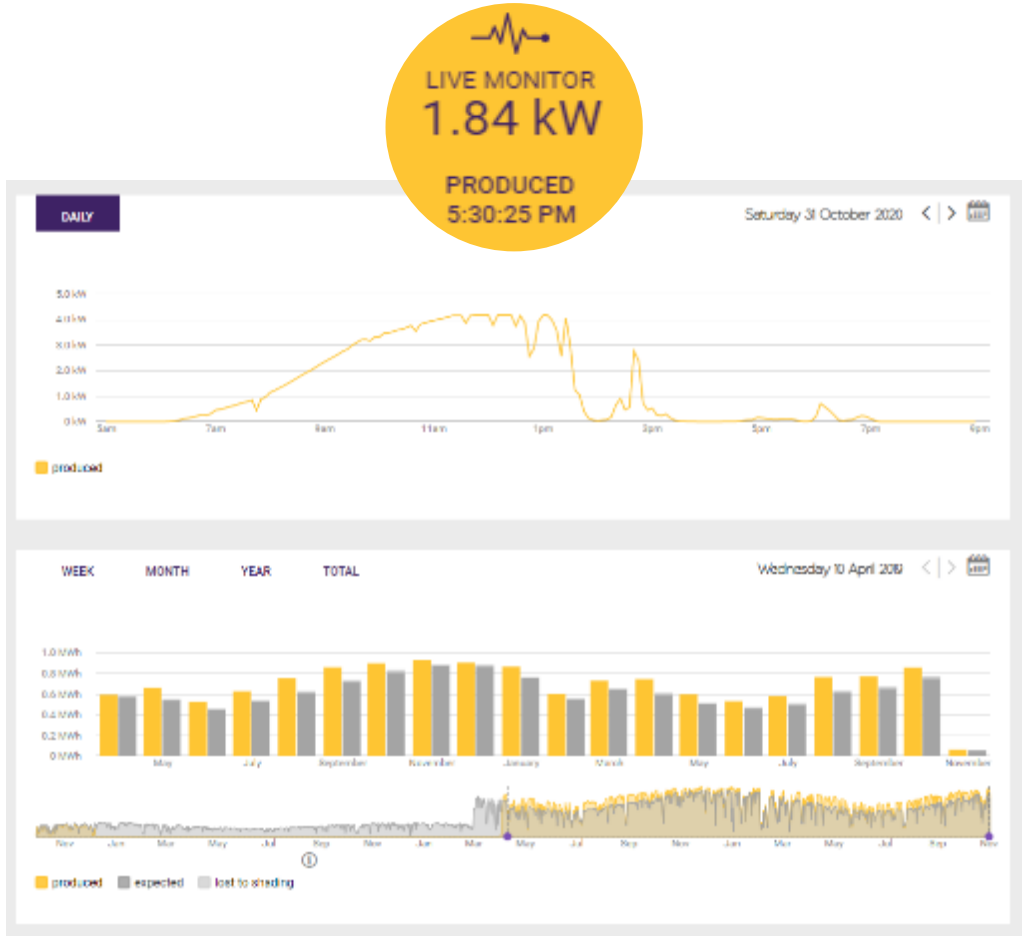
Performance

- what is normal?
- more than twenty key variables
- complex sum with algorithmic smoothing



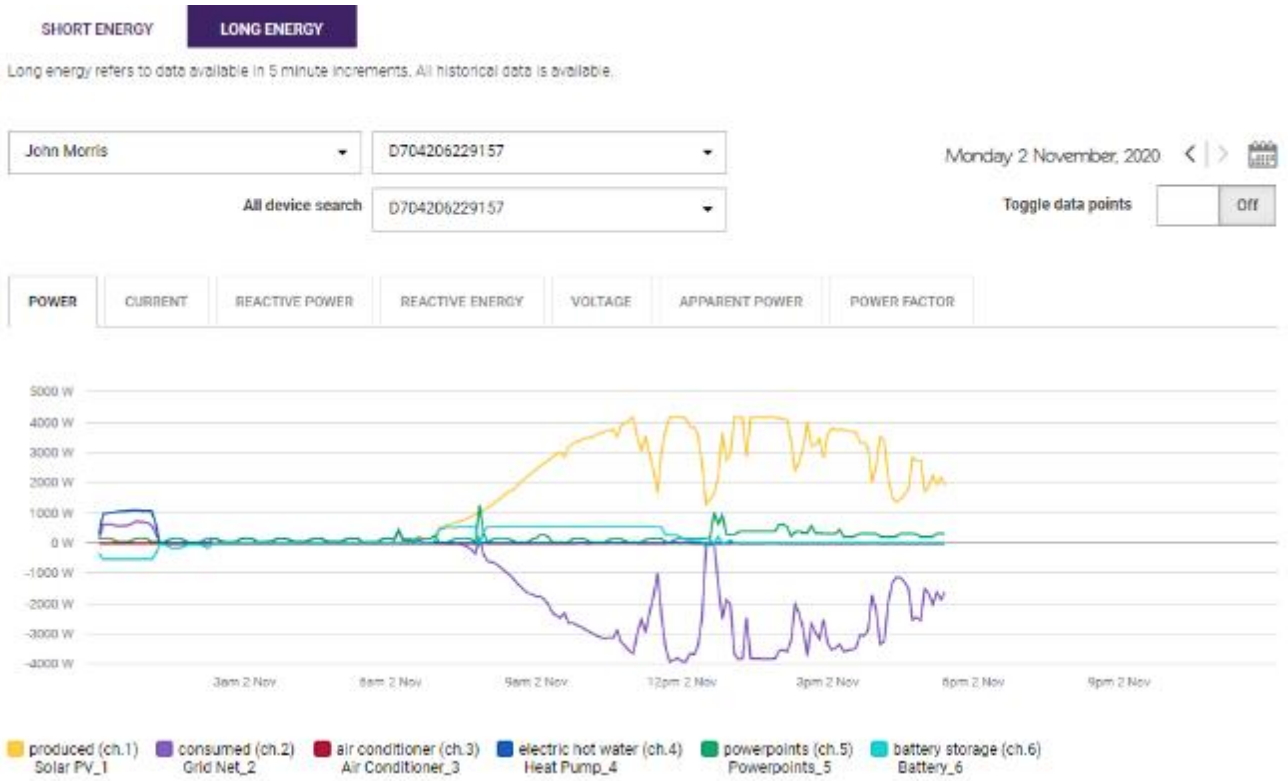
Trends

- long term trends improve reliability
- site specifics come into play
- data granularity matters



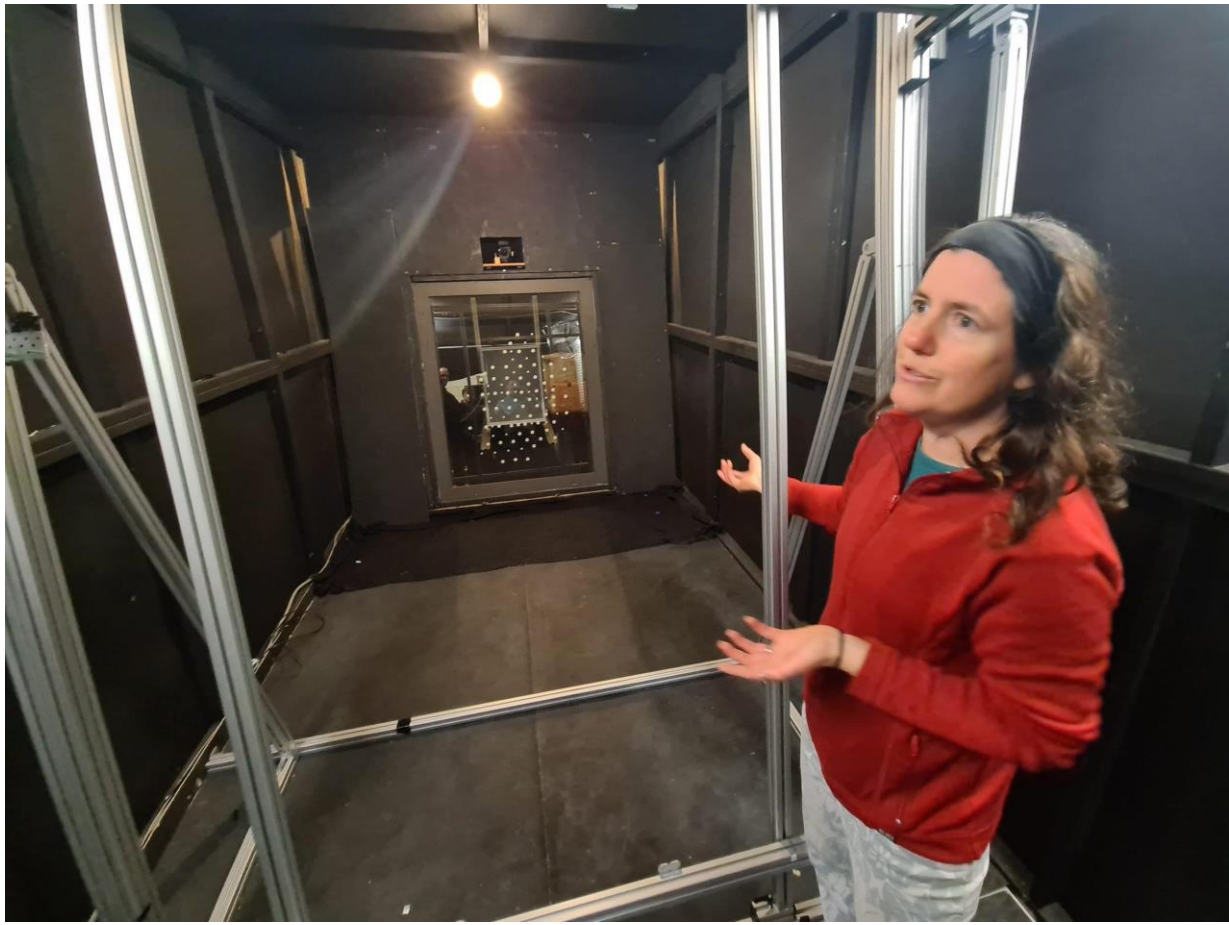
Tools

- circuit level monitoring
- 5SecondLive
- rule causes in or out



Testing solar modules

- equipment tolerances
- equipment accuracy & calibration
- external factors



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