solar analytics

Solar Energy Data Services
- real time and historical solar and energy data

Australia's most granular and reliable solar energy data
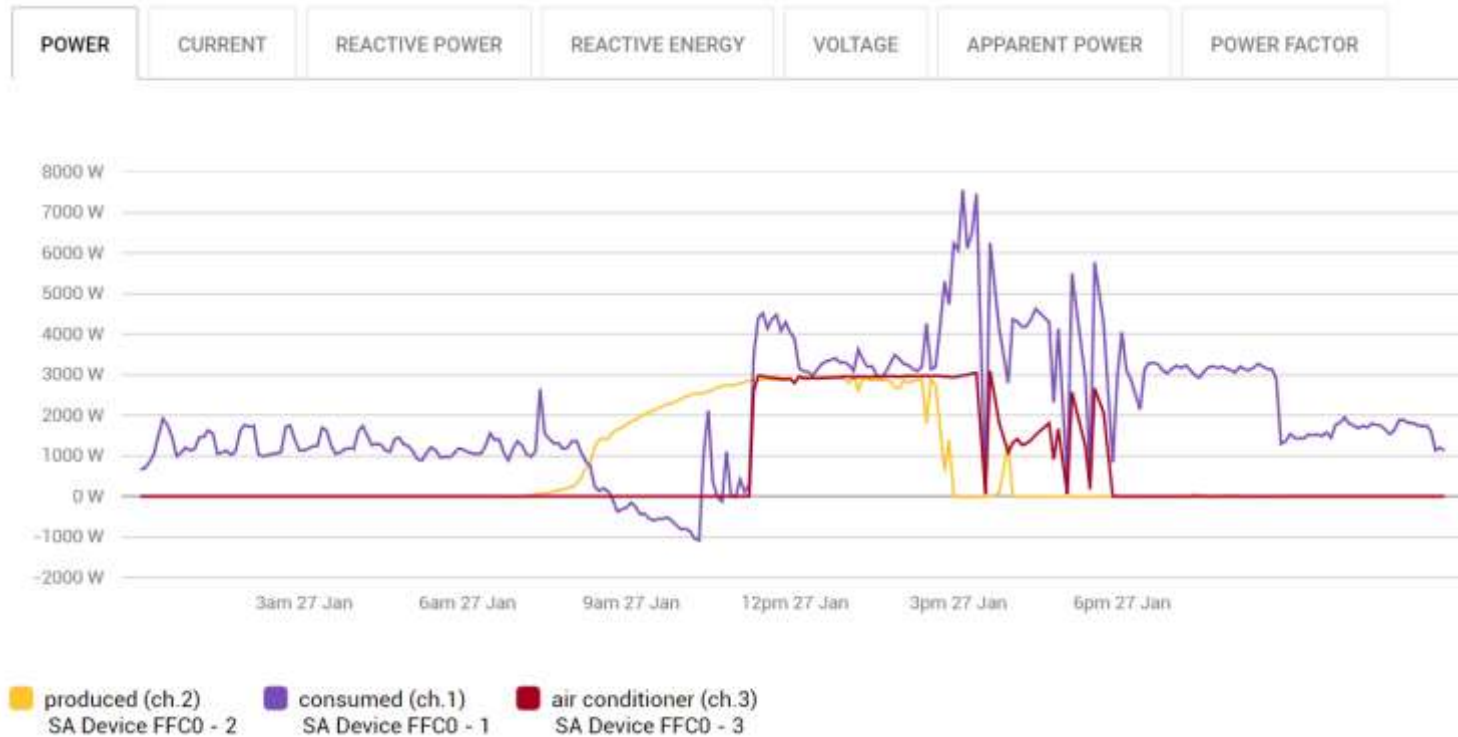
Why Solar Analytics

Australia's largest solar energy repository:

- 13 TB of energy data measurements
- 190 million new data records per day
- 21,000 years of solar site data
- 200+ years solar experience on staff
- 25+ years R&D
- 8 all states/territories across Australia
- 3 PhDs on staff + 3 through UNSW
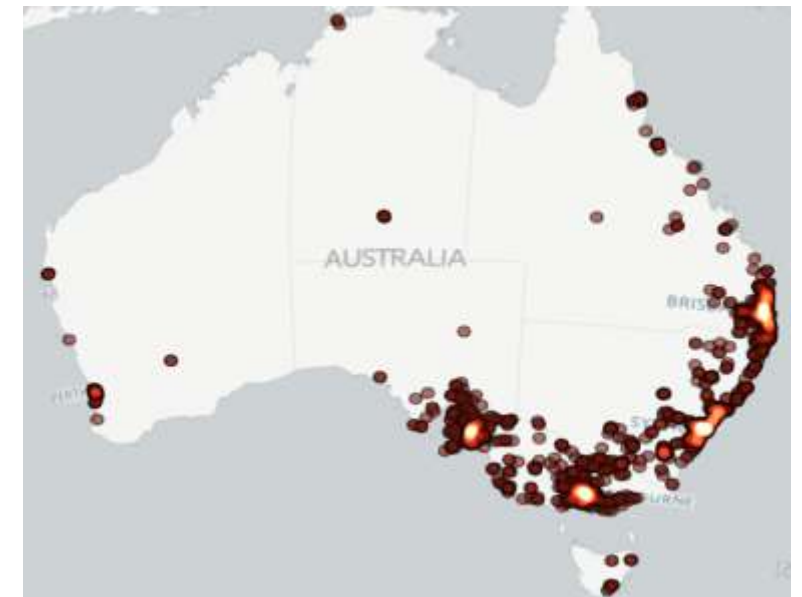- 2 solutions – API or data download
- 1 amazing team

Solar Analytics data service

Unparalleled energy data for residential and commercial solar sites across Australia

1,000 sites with 12 months data
(Apr 17 – Mar 18)

Available data

API Data – real time automated data access provides:

- System - location, size, tilt, orientation, strings, equipment, etc

- Solar generation - energy, power, pf, voltage, current, frequency

- Grid side load - as above for main and individual circuits

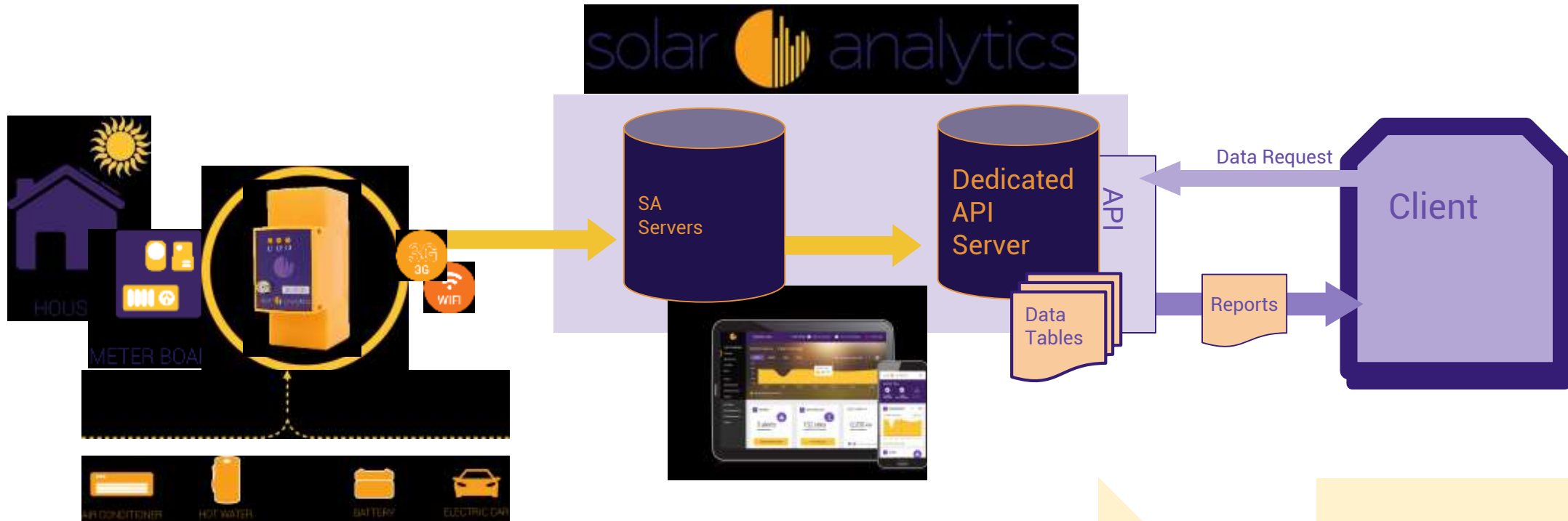- Real time - 5 second to 15 minute resolution

Historical Data – one off custom data set (csv):

All of the above parameters for :

- Selected number and location of sites

- Specific events or time periods

- Nominated parameters or custom analysis

How the API works

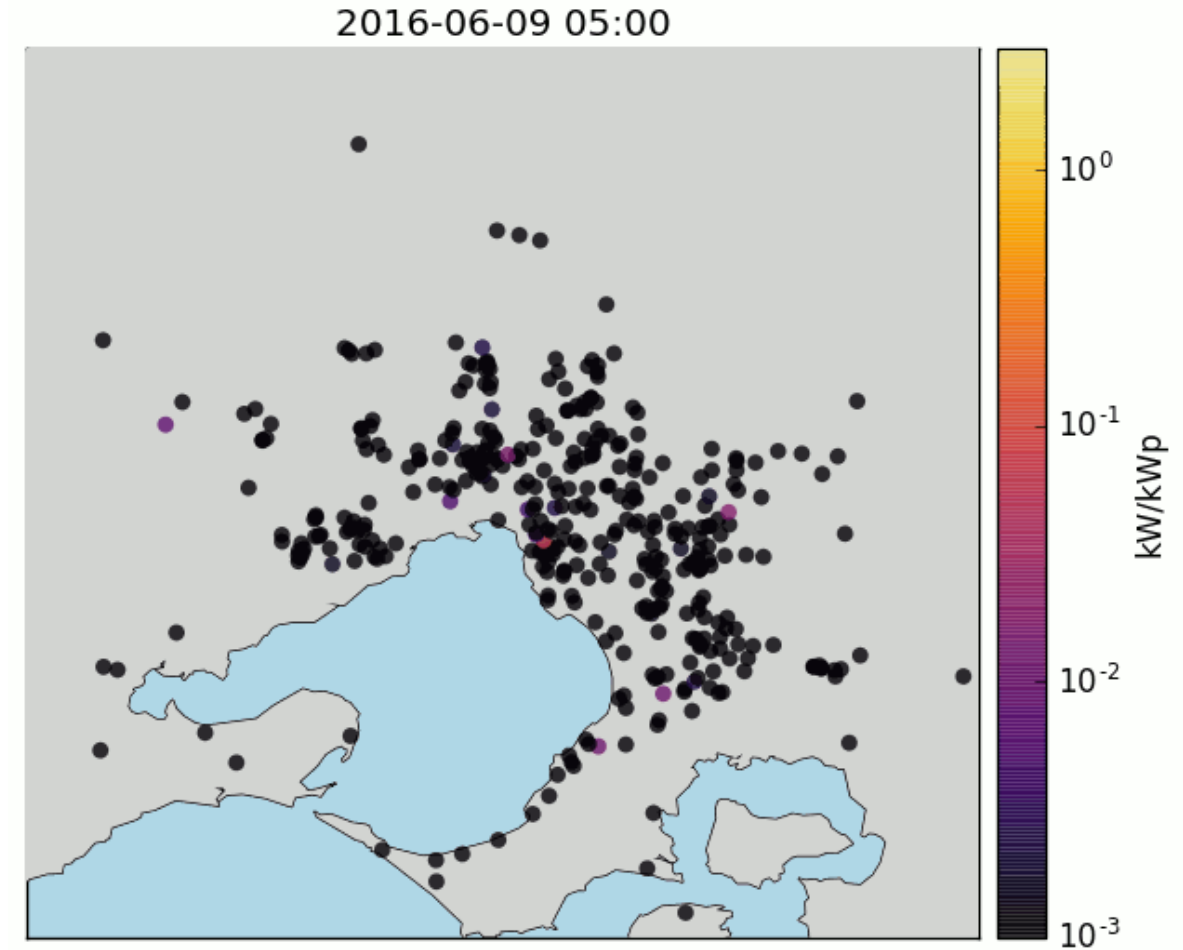Solar Analytics gathers data from meter board circuits

Solar Analytics stores the data for use in analysis of performance, and energy management

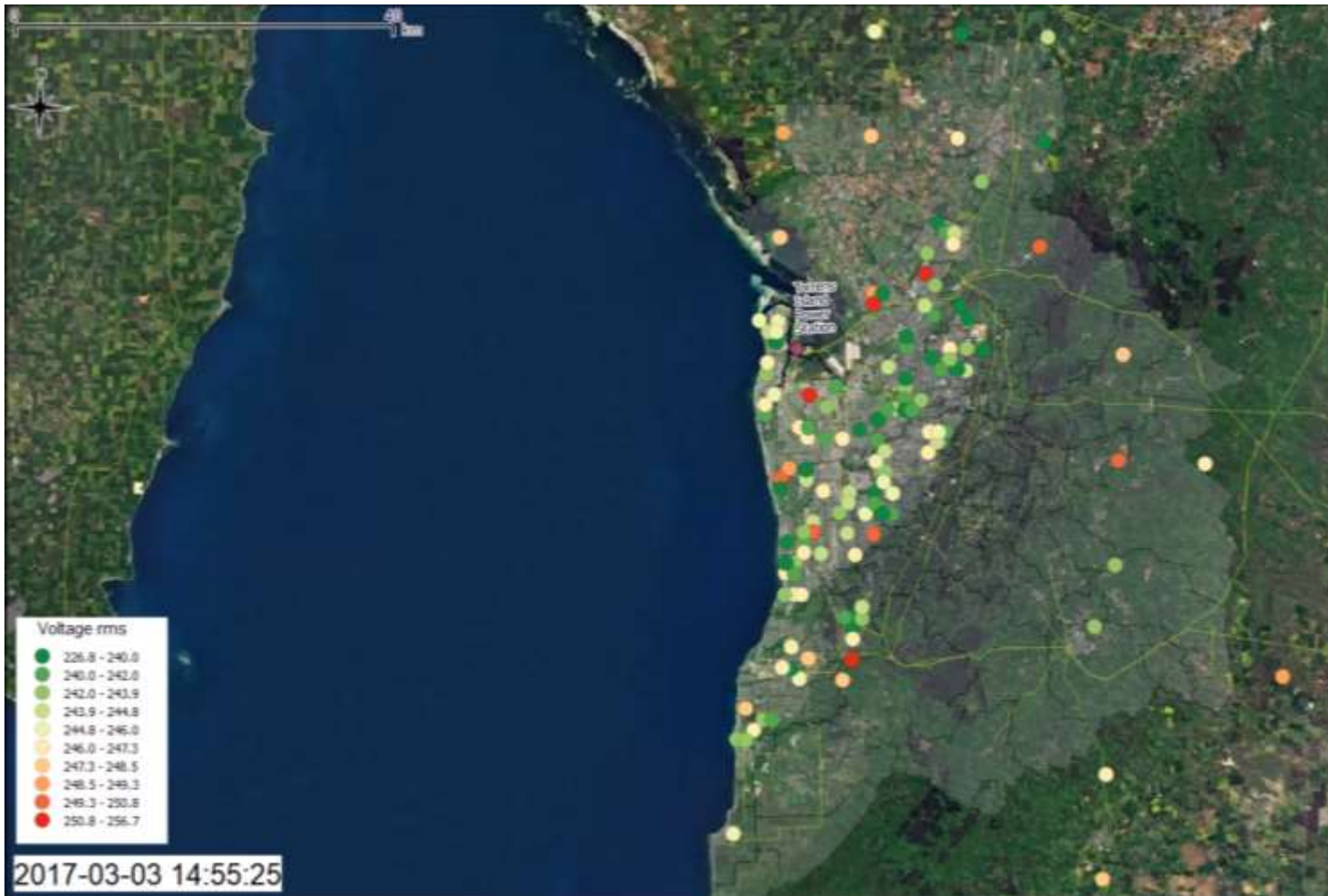Requested data available for real time retrieval

Sample data use cases

- Real time rooftop **solar generation**

- Feeder level **voltage** out-of-spec alerts

- Analyse **grid disturbance** events

- Estimate total **regional** solar generation

- **Frequency** event modelling

- Solar **forecasting**

- PV equipment **reliability**

- Solar consumer **behaviour**

Cloud cover energy impacts - Melbourne

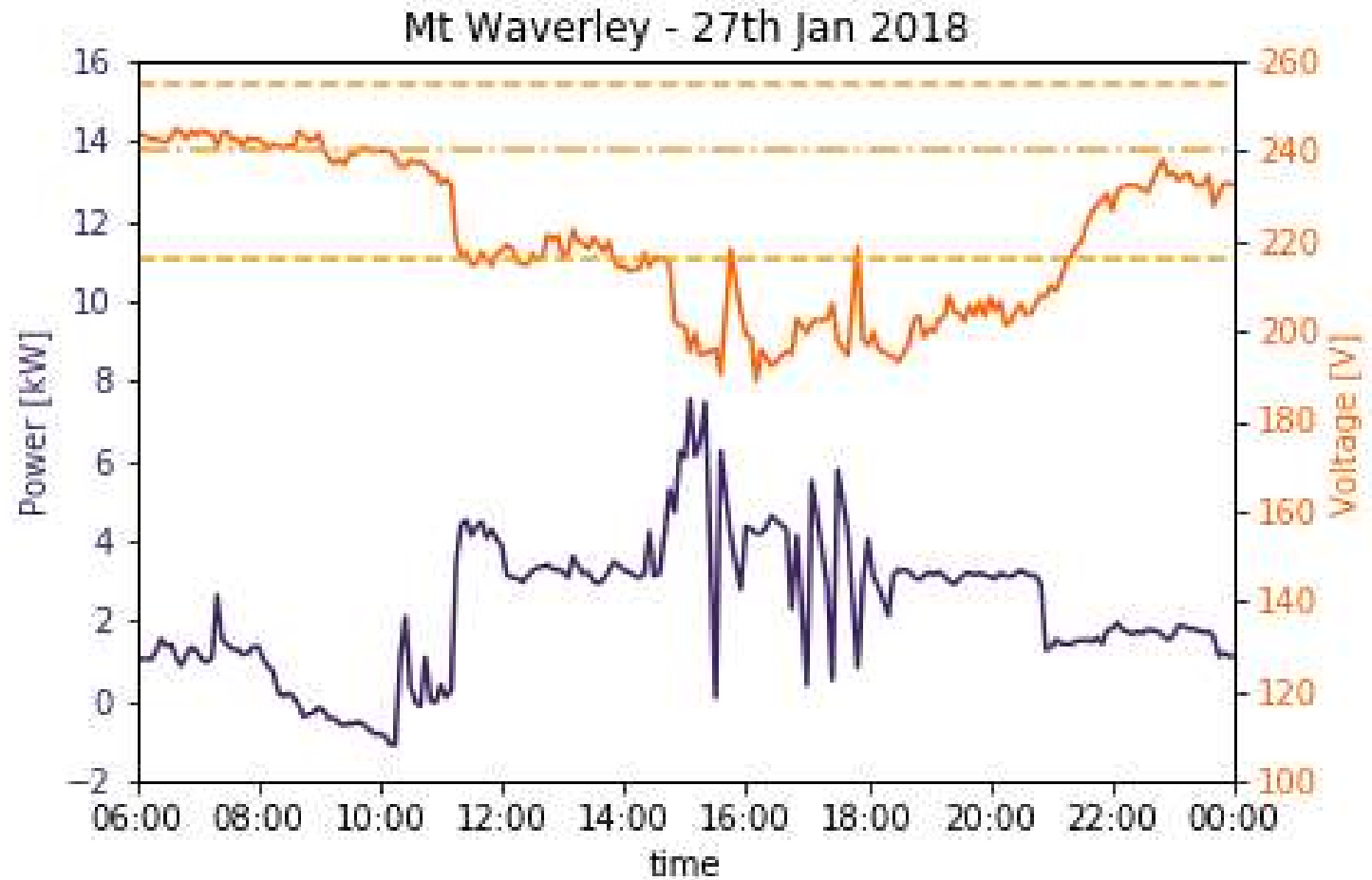2016-06-09 05:00

Voltage data use case

Adelaide 27 Mar 2017

- Shows city wide voltage disturbance following grid event

- Also shows feeders consistently above voltage specifications

Sample voltage insights

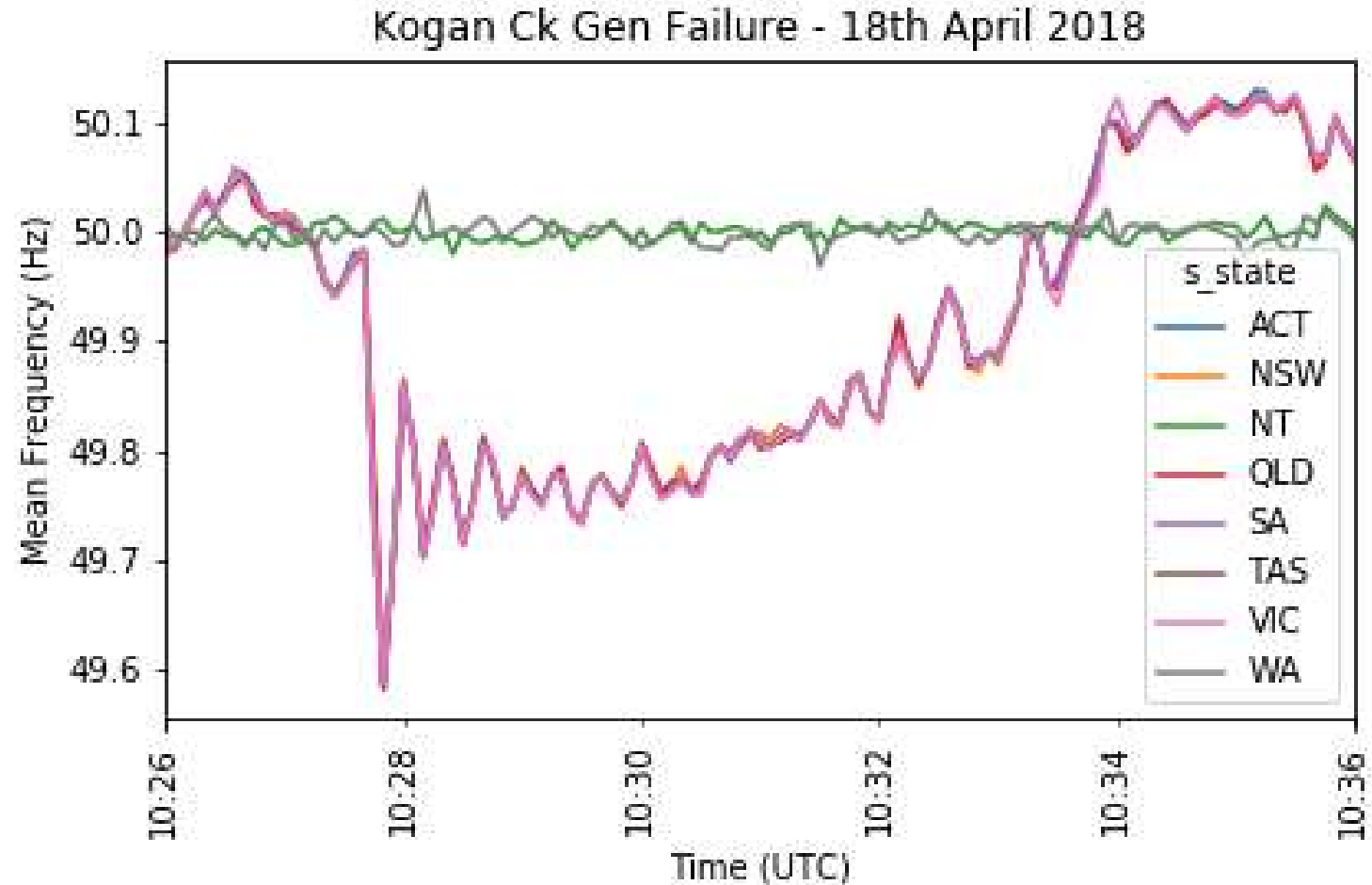Data can be wholesale, event or location based

Identify site, feeder and system wide disturbances

Mt Waverley - 27th Jan 2018

Sample frequency insights

Data can be wholesale, event or location based

Identify site, feeder and system wide disturbances

Kogan Ck Gen Failure - 18th April 2018

Trial our data

Please contact Solar Analytics for the following:

- Sample Excel file with API data and full list of available parameters

- 12 month historical data set for 1,000 solar sites (Apr 2017 - Mar 2018)

- API documentation

- Pricing will depend on the volume of data determined by:

  ➢ Number of sites (and length of period for historical data)

  ➢ Resolution of data (5 sec to 15 min)

  ➢ Parameters requested

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