# 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

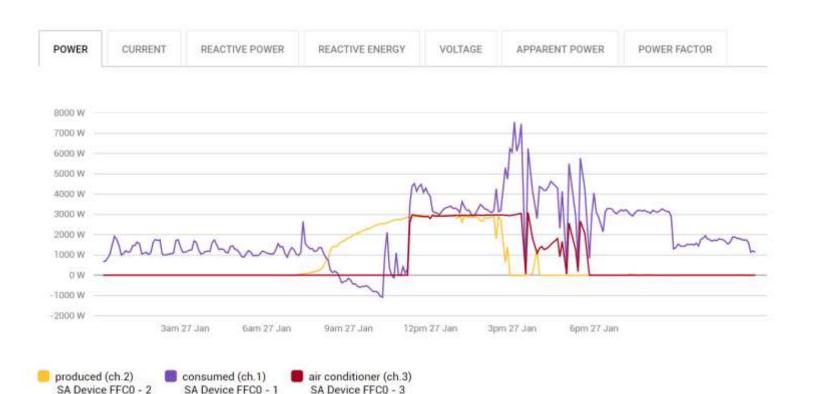


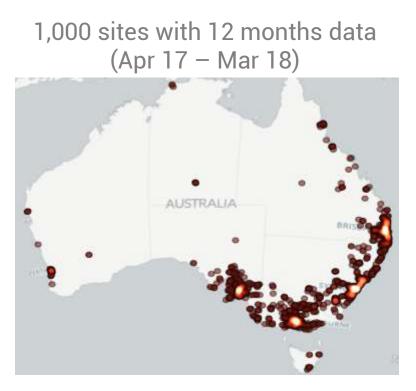
- 13 TB of energy data measurements
- 190 million new data records per day
- 21,000 years of solar site data
- 200+ years solar experience on staff
- 25+ years R&D
- 8 all states/territories across Australia
- 3 PhDs on staff + 3 through UNSW
- 2 solutions API or data download
- 1 amazing team



## Solar Analytics data service

Unparalleled energy data for residential and commercial solar sites across Australia







## 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

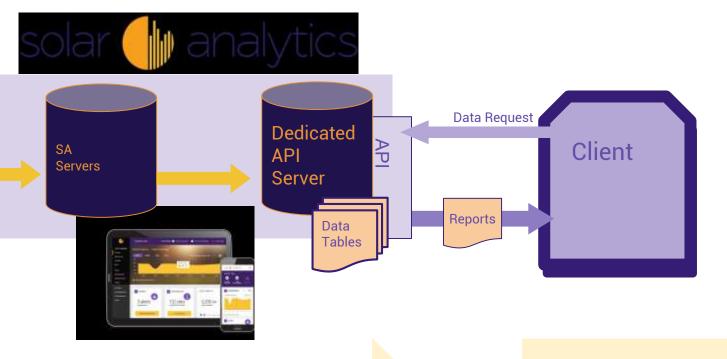


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## How the API works





Solar Analytics gathers data from meter board circuits

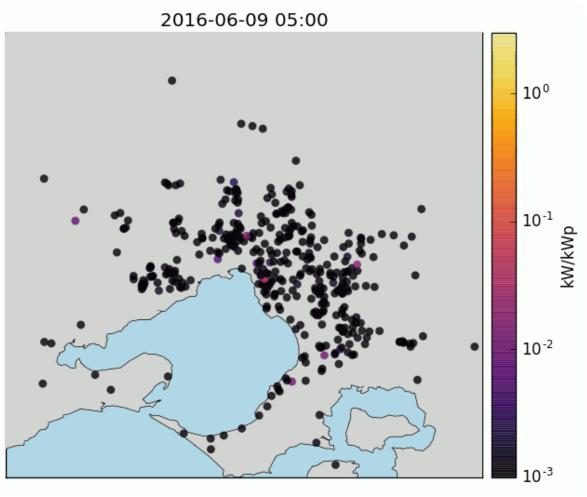
Solar Analytics stores the data for use in analysis of performance, and energy management Requested data available for real time retrieval



## Sample data use cases

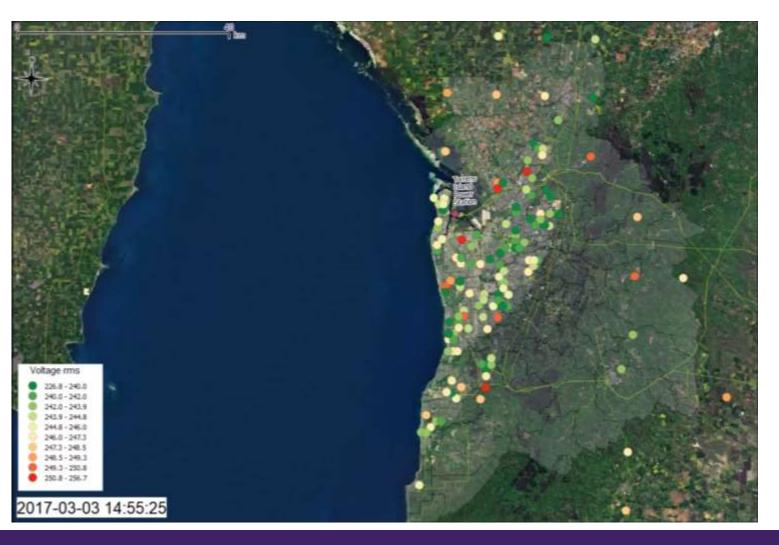
- Real time rooftop **solar generation**
- Feeder level **voltage** out-of-spec alerts
- Analyse grid disturbance events
- Estimate total **regional** solar generation
- Frequency event modelling
- Solar forecasting
- PV equipment reliability
- Solar consumer behaviour

#### **Cloud cover energy impacts - Melbourne**





### Voltage data use case



#### Adelaide 27 Mar 2017

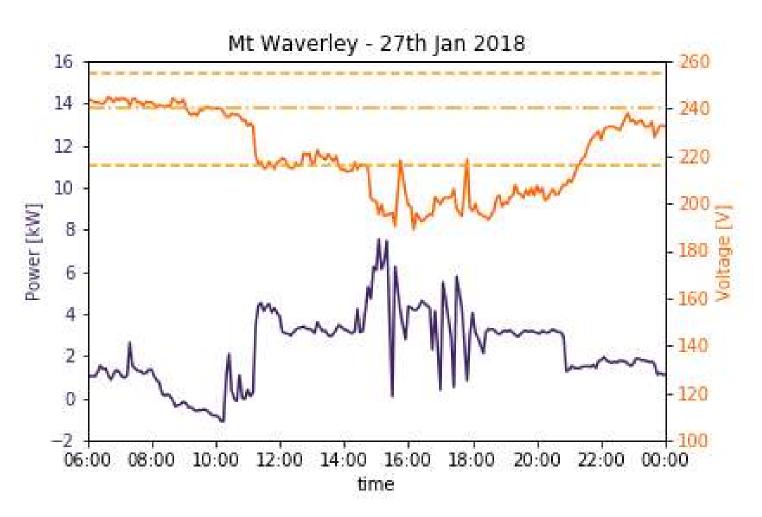
- Shows city wide voltage disturbance following grid event
- Also shows feeders consistently above voltage specifications



## Sample voltage insights

Data can be wholesale, event or location based

Identify site, feeder and system wide disturbances

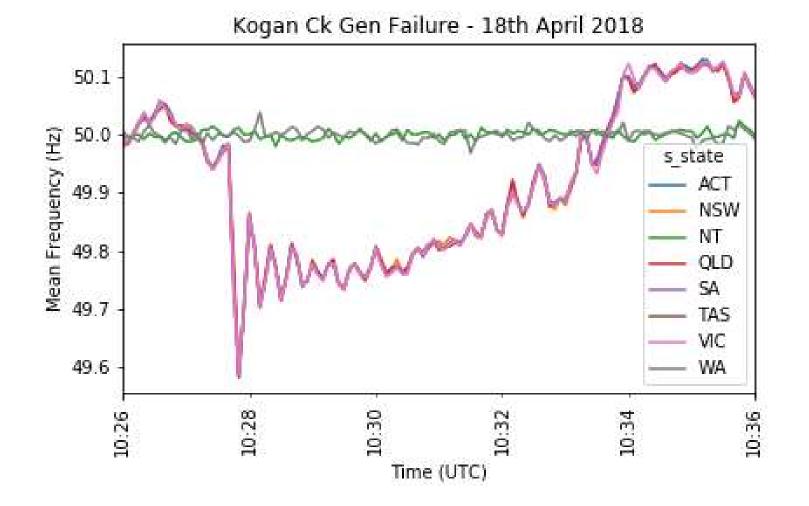




## Sample frequency insights

Data can be wholesale, event or location based

Identify site, feeder and system wide disturbances





## 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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