

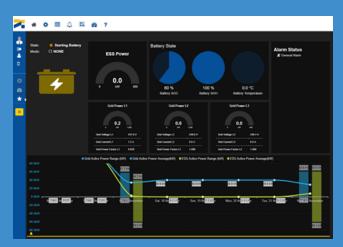
SMARTset EMS

SMARTset EMS is an Industrial Energy Management System

A 'single pane of glass' with infinitely flexible control and visibility of local energy management, storage, usage and grid supply.

SMARTset EMS FEATURES:

- User configurable dashboards that provide a 'single pane of glass' view across the whole EMS, from current and scheduled control modes, to historic and current energy usage
- Arbitration of control modes allows automatic optimal operation to be selected from Peak Shaving,
 Frequency Response, Voltage Regulation, SOC
 Correction or any other user defined modes
- Unlimited, bespoke modes can be configured easily to meet your exact requirements



- A sophisticated reporting engine generating rich, visual performance reports can be distributed to who you want, when you want and how you want
- SMARTset EMS can be hosted locally, in the cloud or with cloud backup
- Monitoring and operation can be performed remotely by multiple users via PC/Mac/Android/iPhone using any modern web browser



- Values are stored and displayed every second to give a continuous, real time view of the equipment to allow condition monitoring and predictive maintenance
- Pre-set and configurable, behavioural alarms allow real time/daily/weekly event logging, diagnostics and recording with a full audit trail
- Operating plans can be defined with a schedule on a second by second basis using the inbuilt scheduling widget
- Users can create separate plans for each individual mode of operation including manual overrides
- Weather information can be used to influence current and future behaviour of the system



CONTROL CAPABILITY

· Connected devices No limit Maximum power No limit

Time based and/or dynamic Control mode type

 Number of modes No limit

 Method **Blockly visual editor**

 Response time <1 second

Equipment Manufacturer Any

DYNAMIC DASHBOARDS

 Users 5 concurrent as standard Tiered

· Access rights & customisable

· Number of dashboards No limit

 Dashboard widgets 35 including graphs, charts, geo-

mapping, traffic light etc.

· Number of widgets No limit Corporate livery **Bespoke**

REPORTS

Formats

Frequency

Distribution method

Maximum number

 Templates included ·Bespoke available

HTML, PDF, CSV & TXT Any - from on demand to yearly SMS, email, email-link

Yes

and Virtual File System No limit

Yes

ALARMS

Maximum number

Notification method

Hierarchy

· Templates included

· Complex conditions

No limit

SMS, email, email-link and Virtual

File System

Federated

Yes

Yes, including trend analysis and machine condition detection

STORAGE

Cloud backup Historic readings

Yes

No limit - but we recommend 2 years as

sufficient





OPTIONAL MODULES

Environmental

Monitor and control your HVAC

equipment

Security

Manage door locks and video

cameras

Integrations

Integrate with company LDAP/ SSO and forward alarms to SNMP

traps

Optimisation

Real-time heatmaps of energy, temperature and humidity across

your estate

TECHNICAL DETAILS

- SMARTset EMS can be viewed in any HTML5 compatible web browser (IE10+, Chrome 28+, Firefox 15+, Safari 7+) on any platform.
- Fully compatible with touch devices (iPad, Android and mobile phone)
- Monitoring is compatible with SNMP, MODBUS, BACnet, RFCODE, MQTT, NEST, EnOcean, HTTP(s) and 4NG proprietary protocols
- API RESTful, SNMP, Modbus and OSGi Plugins

MINIMUM SPECIFICATION

- On premise or hosted solutions available, subject to reliability & latency of internet connection available
- Any 32/64bit Java 1.8 platform
- (Linux/UNIX, Windows 20xx)
- Twin Core 1.70GHz CPU
- 2 Gb RAM
- 1 Gigabit Ethernet
- 250 GBb Disk

