



Utility Alliance Ltd

# Energy Monitoring & Management

Scalable software  
& hardware, from  
single meters &  
demand switches,  
through multiple  
buildings and  
sub-metering

[www.utility-alliance.com](http://www.utility-alliance.com)

# Energy Monitoring & Management Plans

Scalable software & hardware, from single meters & demand switches, through multiple buildings and sub-metering.

## UtilitySMART STANDARD

Uses HH, NHH, Gas & Water meter data. No hardware required



Minute data intervals



Dashboard platform



Single data source



Visualises kWh data

## UtilitySMART PREMIUM

With on-site energy monitor providing cost, consumption, demand & carbon views



Minute data intervals



Dashboard platform



Single data source



Visualises kWh, kVA & kW data

## UtilitySMART ENTERPRISE

Monitors & displays many meters, sub-metered locations & loads



Minute data intervals



Dashboard platform



Multiple data source



Visualises kWh, kVA & kW data

## UtilitySWITCH

Simple Demand Side Management. Addable to any UtilitySMART package



On/Off Schedule



Control panel



Multiple loads / systems



Lowers, kWh, kW & kVA

## Centralise

all your data into one complete picture

Information is one of the most valuable assets your company can have. Compiling all energy data of your buildings and their energy usage in an easily-digestible format is even more so.

Our energy dashboards help you organize and centralize your data:

- Easy to use menu's allow you to capture and display data across your entire portfolio.
- Flexible graphics highlight patterns and anomalies for analysis by a wide variety of end users.
- Share your reports and insights easily with others through shared dashboards, scheduled emails, and data exports.

## Visualise

with charts, graphs and reports

Few things tell a story as well as clear, concise images. Utility SMART reports in graphs and charts to make your energy use more quickly understood. That means faster implementation of energy-saving solutions, saving you money faster than ever before.

- Bring data to life with interactive and intuitive visualizations that provide value to anyone in the organization.
- A growing library of pre-built charts, graphs, and reports displays critical performance information.
- Create your own energy dashboards using our simple drag-and-drop tools to analyze and share your data in unique ways.



## Organise

your data for analysis and reporting

Answers to energy questions should be easy to ask, find, understand, and compile. With UtilitySMART, we do the heavy lifting for you so you only see what you need in order to make sense of your building energy data.

- Automate and centralize utility bill data collection directly from your utility. No more spreadsheets.
- Visualise trends over time, understand what is driving your costs, and verify the accuracy of your monthly bills.
- Simplify utility reporting and distribute reports across departments with shared energy dashboards and automated email delivery.
- Automate compliance reporting eg. ESOS and SECR, to save time and ensure the quality and completeness of the reported data

## Normalise

and compare performance across buildings and time periods

Normalisation provides accurate interpretation of data, and correct performance metrics. Factoring variables like weather, occupancy and area normalization tells us how much we *would* have spent this year versus actual spend.

- When comparing facility data, stacking data sets side by side won't offer an accurate picture of your facility. Comparing energy use for a facility housing 250 people to one housing 50 is like comparing the caloric intake of a toddler to that of a rugby player. Of course the numbers won't add up!
- You can use normalisation to gather accurate data. There are a few types of normalization you should explore: Area/Volume, Occupancy/Person count, Operational Status, Productivity, Climate and Weather.
- Normalisation allows you to accurately report the costs (and savings!) of your facility. *Its data you can't afford to ignore.*

Our behind-the-meter energy management technology is connected, easy to deploy, buy & use.



## Find savings

# Monitor and manage your energy use and costs with UtilitySMART & SWITCH

All operations like to save money – that’s common sense. But it’s not always that easy to see where the opportunities lie, especially if you have many people working across different sites. To see the opportunities, you need complete energy use visibility across your whole operation.

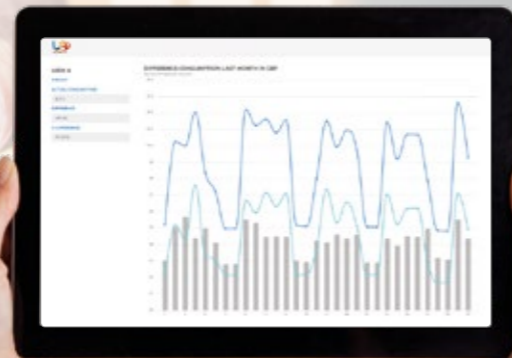
And that’s where UtilitySMART can help. UtilitySMART gives you a straightforward picture of your energy use. It allows you to measure how much energy you’re using, keep track of your carbon emissions and identify where you can control your costs. UtilitySMART can help prepare your operation for an energy efficient future. UtilitySMART Dashboards can be accessed by anyone you choose across the operation, giving full transparency of what’s going on.

## How does it work?

**UtilitySMART** reviews data from your meters, locations, building systems then visually transforms this data into an easy-to-use Dashboard. You’ll be able to notice and be alerted on specific events in your energy usage, such as peaks and troughs, and you can focus on KPI’s that are important to what you’re keen to control.

Compare between sites, look back over different time periods, and use this data to see where change is necessary to improve overall energy efficiency.

**UtilitySWITCH** gives you the power to actively manage your daily consumption and peak demand charges by switching loads on/off, up or down manually or to a regular schedule.



## UtilitySWITCH

# Simple Demand Side Management

**UtilitySWITCH** automates and optimises a network of distributed energy switches that radically reduces energy costs via real-time demand management during peak cost times.

Our Demand Side Management (DSM) package minimises tariff charges such as DUoS (Distribution Use of System) and TNUoS (Transmission Network Use of System) - more commonly known as Triad's. If managed effectively it is possible to reduce individual systems/loads energy spend between 15-20% with minimal capital outlay. UtilitySWITCH can be available at no upfront cost where clients can share in savings achieved.

Typical loads that are “UtilitySWITCH’ed” are HVAC, Lighting, PV, Compressors, EV Charging points and Storage, all with little to no impact on site occupants.



### Connect

We work with you to seamlessly integrate your switchable loads into UtilitySWITCH.



### Control

UtilitySWITCH gives you complete control and visibility of UtilitySWITCH controlled asset status, second by second.



### Save

By optimising energy consumption in real-time, UtilitySWITCH radically reduces the cost of delivering and consuming power.



# Which Monitoring Plan is right for you?

	Utility SMART <sup>1</sup>	Utility SMART <sup>2</sup>	Utility SMART <sup>3</sup>	Utility SWITCH
Dashboard displays Smart or Half Hourly or Non-HH meter consumption data	✓		✓	✓
Dashboard for single energy monitor installations, displays real time information		✓	✓	✓
Energy Dashboard for multiple meters, locations and equipment	✓	✓	✓	✓
Displays kWh, cost and carbon (CO <sub>2</sub> e) <sub>w</sub>	✓		✓	✓
Displays energy use in Time of Use and Day/Night views	✓		✓	✓
Observe energy use visualised in and out of working hours to help reduce energy waste	✓		✓	✓
Customer defined Alerts, build threshold & data outage alerts for consumption, cost or carbon peaks	✓		✓	✓
Automated reports for Savings, Consumption & Verification	✓		✓	✓
Overlay energy use with local temperature & humidity to see if HVAC set points are working optimally			✓	✓
kVA monitoring of Peak Demand, i.e. Contracted Capacity use and Excess Capacity penalties		✓	✓	✓
Set Energy targets (consumption, cost & carbon) and view performance vs the targets	✓		✓	✓
Verification views, show energy use/costs before & after energy retrofits for ROI verification & reporting	✓		✓	✓
Ability to compare energy use between monitored meters, buildings, systems or areas	✓	✓	✓	✓
Sub monitoring of building systems, e.g. lighting, HVAC, Data Centres, Compressors etc.		✓	✓	✓
Scalable, can add unlimited monitored loads, other vendors meters and sensors	✓	✓	✓	✓
Upgradeable to other SMART packages	✓	✓		
Personalise with own logos, equipment & locations can be named, energy unit cost & carbon is changeable	✓	✓	✓	✓
Demand Side Management, can switch loads upto 600A				✓
Demand Side Management, loads switch on/off a scheduled, threshold or "now" basis				✓
Demand Side Management, reports on switched loads on/off history & changes to consumption & cost				✓



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