Business Energy Intelligence
Everything you need to know about Business Energy Intelligence
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The Business Energy Intelligence Service

The best way to fully optimise your energy is by keeping track of data from all sources. In short, you need energy intelligence.

Energy intelligence is the process of collecting, inspecting, reviewing, transforming and modelling energy data, with the goal of discovering and highlighting actionable intelligence. This is where Business Energy Intelligence comes in.

Business Energy Intelligence from SSE is a new and efficient way of examining your energy consumption to identify potential time, energy, carbon and money saving opportunities.

Our new online platform allows you to remotely monitor your utility data via a wide range of reports for both long and short-term trend analysis.

Our energy experts will set up the account for you to make sure your data is ready the first time you login. We have made the system easy to navigate saving you precious time as you monitor your data.

The system requires no software to be installed as the interface is web-based and is accessed via popular web browsers. We have optimised the interface to work on your desktop or laptop computer and your tablet.

The interactive data visualisations provide a detailed view of consumption or energy usage trends, which allow you to assess your energy performance and identify areas to make energy or operational savings.

The Business Energy Intelligence platform allows you to monitor all of your properties in multiple locations and set default parameters for each tool so you can see your reports at the click of a button. You can customise each report view according to location, utility, unit and date giving you full flexibility as you view your data. The platform supports main, sub and calculated meters and is available 24 hours a day, 7 days a week allowing you unlimited access to customisable key information.

A key feature of the system is the ‘Energy Snapshots’ that you can set on the home page. These are completely configurable and you can set up to five in the initial view. These invaluable quick views of energy data will save you hours of analysis each day.

Reviewing your energy data used to mean endless spreadsheets, complex systems and valuable time spent gathering the relevant figures. The Business Energy Intelligence solution solves these problems, saving you time and saving you money whilst also saving energy.
The Consumption Report is perhaps the most crucial report in any energy management software. Users can plot consumption from electricity, gas, water, heat and even virtual meters, and compare this with consumption over multiple locations, time periods or utilities.

The report allows you to examine how much energy has been consumed over long periods of time, and identify whether these figures rise or fall. You can overlay outside air temperature, targets and base year consumption, which provides a clean graphical display and allows users to visualise long-term trend analysis whilst also enabling them to drill down into the data and analyse in more depth.

If, when examining your data, you identify an exception, whether good or bad, you can drill down into it and examine it further – down to the half hour period that it occurred – allowing you to see how long it lasted, if it’s still an exception and whether or not you need to take action.

Our interactive data visualisations lead to quick identification of actionable energy intelligence of energy consumption, improving efficiency and cost effectiveness.

### Consumption Report

**Short and long-term analysis with comparisons against other locations or other time periods**

- Consumption over time analysis
- Comparisons to other locations, time periods & utilities
- Drill down into more granular data
- Overlay base year or target
- Easy graphical visualisation

### Benefits

- Identification of patterns & faults
- Compare and make decisions based on data
- Guide energy analysis
- Actual vs. target comparisons
- Reduce energy consumption & cost
The energy Contour Map is an innovative and highly effective way of visualising meter consumption data being used at a site, facility, area or specific plant. This report is best utilised for long-term trend analysis, identifying patterns, faults, exceptions and the direct impact of energy conservation measures.

The clean data visualisation provides analysis of energy usage and immediate identification of any operational issues and allows the user to pin-point the exact day and time they occurred.

The Contour Map is a clean and professional report, perfect for long-term trend analysis and visualising consumption patterns. It allows for quick and efficient monitoring of energy consumption and operational usage, leading users to identify problems and solutions, quickly, saving your business energy, time and money.

**Features**
- Long-term trend analysis
- Easy graphical visualisation
- Drill down into week / day

**Benefits**
- Identification of patterns & faults
- Review of energy conservation measures
- Focus and drill into problem areas
- Reduce energy consumption and cost
Top Hat

Short-term trend analysis with quick evaluation and identification of exceptions against benchmark (excess consumption)

Top hat profiles are an effective way of analysing short-term trends, exceptions and overuse. This consumption data can be drilled down into weekly, daily and half hourly snapshots providing a clean graphical view of potential excess energy consumption over a short period, automatically calculated on the past energy profile. The calendar selection means users can compare half hourly snapshots on different dates to generate actionable energy intelligence.

The Top Hat report also overlays the outside air temperature for users to correlate weather with consumption.

Potential energy wastage issues are easily identifiable via this report and abnormalities are colour coded to allow quick decision making through data. By addressing issues quickly, not only are you saving energy, but saving time and money as well.

Features
- Identification of excess energy based on past profile
- Daily consumption analysis
- Easy graphical visualisation

Benefits
- Be able to pinpoint & target excess energy with energy reduction programmes
- Reduce energy consumption & cost
League Table

Ranking of sites within portfolio with historical positioning review

League tabling is a simple and efficient way of identifying over-spending by ranking the best and worst performers within the users portfolio.

When normalised, a league table turns into a powerful tool that provides the user with a way of comparing multiple sites, regardless of location, size or brand.

The visualisation allows the user to sort the data according to location, floor space, time-period and energy usage meaning comparison and consumption abnormalities are easily identified.

This report is particularly useful for multi-site operators as it allows them to identify the weakest performing site in terms of energy consumption and keep track of each site's performance in relation to each other.

This intuitive snapshot of all of the users properties provides a quick look at performance, enabling fast action when required to save energy and save money.

Features

- At a glance analysis
- Easy graphical visualisation
- Drill down into location
- Review ranking position

Benefits

- Compare best / worst performers
- Comparison of sites, buildings etc.
- Review performance movement
- Reduce energy consumption & cost
Day/Night Split
Ranking of sites within portfolio with historical positioning review

The Day/Night split report is a visualisation designed to look at multiple buildings, areas or zones to evaluate energy usage and cost during the day and then during the night. The ability to identify overnight energy wastage is important when devising an energy efficiency strategy.

The data gives an actionable energy intelligence report allowing the user to take steps in the relevant areas to improve energy efficiency and costs during the night. The operating parameters can be tailored to suit user requirements and consumption over different buildings and time frames can be examined in order to set a benchmark for optimum energy usage during the day and night.

Features
- Identification of high night cost locations
- Easy graphical visualisation
- Drill down into location for long-term trend analysis
- Drill down into month

Benefits
- Compare cost in-hours vs. out-of-hours
- Comparison of sites, buildings etc.
- Target high night cost locations
- Reduce energy consumption & cost

Off-Peak
Long-term trend analysis with quick off-peak (night) consumption evaluation

The Off-Peak report focuses on energy performance, specifically during the night giving the user quick visualisation of night consumption abnormalities in order for them to drive down overnight use.

Operating with a simple traffic light format, the report allows for quick identification from historical data of any problems that need to be addressed.

Features
- Overnight consumption analysis
- Easy graphical visualisation
- Drill down into location for long-term trend analysis

Benefits
- Spot & eliminate high night energy consumption
- Comparison of sites, buildings etc.
- Reduce energy consumption and cost
Tariff
Identification of high cost periods

The Tariff report allows users to compare actual costs versus your actual consumption via our tariff engine. The Tariff report identifies the periods of time when energy usage costs the most, which are not always necessarily the highest usage periods, and exactly how much is spent during these periods.

The data is displayed in a simple and efficient format that allows the users to take immediate action and implement correct energy conservation on high usage, and save money, rather than wasting time on extensive data gathering.

Features
- Cost period analysis
- Identification of high cost periods
- Easy graphical visualisation

Benefits
- Be able to pinpoint & target high cost periods with energy conversation schemes
- Reduce energy consumption & cost
The Business Energy Intelligence platform helps you identify problems and exceptions with your energy usage. The platform helps you to discover these abnormalities quickly and effectively. The next step is acting on this intelligence and that’s where our Energy Management Centre can help.

Our Energy Management Centre is located in Glasgow and our expert data analysts review the information within the platform and can either interpret the information so you can formulate any actions that need to be taken, or through an agreed set of processes, can assist in the implementation of the insights.

Through deep understanding they can make actionable insights based on energy usage and be the drivers for your energy saving strategy. They can evaluate the effectiveness of energy conservation measures and decide which of these should be rolled out. Perhaps most importantly, our energy experts can help you make savings through smarter deployment.

We have a great deal of experience in implementing energy reduction schemes and improving plant automation and our Energy Management Centre is manned by experienced BEMS and energy engineers who carry out their work remotely with very little expensive labour required to travel to site.

Using the Business Energy Intelligence system to manage energy usage and utilising our Energy Management Centre as your back office support will help drive your energy usage down and save your business money.
Identifying issues via alarming is essential when managing your energy. The Business Energy Intelligence system allows users to assess and acknowledge data usage using the alarm tool.

The tool provides two alarms for users to manage their usage. The energy alarm flags up any uncharacteristic changes in your energy usage. The data integrity alarm flags anomalous readings and data over a certain time period, which may indicate a fault in the data gathering chain.

A vital part of alarming is being able to manage the alarms from a central location. Business Energy Intelligence has a built-in alarm management system that gives clear visibility of what is happening, for both energy and data integrity. All alarms reported via the Business Energy Intelligence system can be sent via email to a variety of recipients to ensure they are reacted to quickly and efficiently to minimise the impact on your business costs.

Business Energy Intelligence gives clear visibility of energy through a variety of different visualisations. These visuals are essential for monitoring and reporting on energy usage. However, to ensure all exceptions are spotted and reacted to quickly and effectively – alarm management is vital.