

# Data quality and the art of Monitoring & Targeting – TEAM Energy

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Tom Anderton, Product and Services Manager, TEAM Energy, tells us how measuring and controlling energy usage has just got easier with enhanced data monitoring tools.

We know how valuable data is for an organisation and recently delivered a suite of data monitoring tools that provides energy professionals with confidence that their energy data is accurate, complete, consistent and timely. This is supported by the system's data monitoring strategies, which seeks out missing, overdue, unexpected or suspicious data. But having assurance in high quality data is just the start.

We have since extended our suite of monitoring tools to make the available data work that little bit harder. Identifying and tracking unusual patterns of consumption data can help energy professionals build insights, resolve issues, make informed decisions, and future proof an effective energy management strategy for their organisation. After all, you can't control what you can't measure.

Efficient trend analysis and exception reporting incorporates:

Email alerting

Finding the issues in data is time consuming. For each data monitoring strategy that has been enabled, our energy management solution will notify users of any data issues via email – and any number of stakeholders can receive these alerts. Not only does this save you from wading through databases and building reports, it allows you to prioritise fixing utility usage issues with precision. Notifications can be sent directly to relevant site contacts which gives added assurance that the most knowledgeable specialist can take corrective action and form insights.

Flexible contextualisation

Energy estates are becoming increasingly complex with growing numbers of assets capturing and storing insightful data. In our Sigma solution, periodic channels are where high frequency consumption data from meters is captured. Defining these periodic channels for your monitoring strategy is now simplified with the latest tools.

They continue to work effectively no matter how your energy estate evolves: whether there are updates to your utility assets or new ones added. The software's dynamic feature means that monitoring strategies can be assigned a "context" of either:

- Fixed – assigning specific channels to a strategy. This ensures that the strategy doesn't draw from new periodic channels (unless they are specifically assigned).
- Flexible - configuring the attributes of the channel when the strategy is set up, for example: run for all channels; run for channels of a certain commodity type. Flexible context gives assurance that monitoring strategies run for the assets as they evolve, or new assets are added – meaning the strategy remains dynamic.

## Trend analysis

Being able to identify potential problems with utility usage is critical to help manage energy effectively and proactively. To be notified of suspicious or erroneous utility usage without trawling through data or reports helps detect any avoidable waste quickly. This leaves energy professionals to focus on fixing issues rather than spend time finding them. Any amount of strategies can be set up for your estate with Sigma's data monitoring: periodic data can be validated against the rules set out in your strategies and when it falls outside of those rules, alerts are triggered.

Trend analysis is entirely configurable and can be tailored to business needs – they support two core profiling functions:

- Dynamic – checks the most recent performance against a previous time period which helps to identify step changes in trends: spikes and drops.
- Fixed – supporting a more sensitive analysis to monitor performance against very specific thresholds (i.e. baseloads). Where the data falls outside of these high or low thresholds, then an exception will be raised.

Completing the Data Monitoring framework, Sigma's enhanced consumption Trend Analysis and Exception Alerting leads energy management professionals to accelerate corrective and preventative action. Sigma puts data at the heart of energy management and these latest software developments help organisations run effective monitoring and targeting for maximised savings.

Learn more about TEAM's Energy Monitoring & Targeting Service  
(<https://www.teamenergy.com/energy-management-software/monitoring-targeting/>)

Data continues to be our focus and the next solution release will boost data transparency in energy estate management. Future developments for Sigma are set out in our product roadmap  
(<https://www.teamenergy.com/sigma-software-roadmap/>).

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### Notes to Editors

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### About Tom Anderton

Tom is TEAM Energy's Product and Service Development Manager responsible for the delivery of the

product and services strategy and the evolution of TEAM's Sigma Energy Management Software. Tom works with TEAM's customers and internal stakeholders to set strategic context for all current and new products and services based on market research, product feedback and external, relevant market sectors.

#### About TEAM

TEAM is the UK's leading supplier of carbon and energy management solutions committed to driving the efficiency and sustainability of energy consumption and environmental awareness.

Its expert team works in partnership with organisations to design and deliver tailored management strategies supporting the provision of efficient and effective energy conservation.

The organisation has a history of working with energy and sustainability professionals for over 30 years. This collaboration has led to the development of proven, scalable cloud-based solutions and service innovations for optimised reporting, cost recovery and compliance.

Adopted across the private and public sector, education, government and utilities, TEAM aims to meet today's market challenges, offering flexible support options and on-going maintenance.