

# Transform Smart Data Centres with **IoT**

More smart data centres are using IoT within their Data Centre Infrastructure to proactively process the IoT data points based on their business priorities and needs and deploy more forward-looking data centre management platforms.

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**Enhance data centre operational efficiency.**

Integrate multiple disparate systems with IoT for a centralised and end-to-end view of your data centre environment. Improve team productivity with data sharing and collaboration via personalised and shared dashboards.

**Stay proactive on data centre capacity planning.**

Use IoT data points for real time view of power, cooling and network capacity and review the impact of existing and future projects on data centre capacity.

## DCiM (Data Centre Infrastructure Management)

Energetix™ DCiM is an infrastructure management solution that enables data centre and facility managers to monitor both data centre facility and IT infrastructure in real time, efficiently managing data centre power infrastructure and optimising power consumption and cooling capacity whilst keeping environment conditions optimal. DCiM unifies the IoT data from the disparate systems and infrastructure to deliver a complete picture of your data centre performance for continuous operational improvements.



### Integrated Infrastructure Monitoring

With a comprehensive DCiM solution covering Energy Management, Environment Monitoring System, Lighting Controls, Power Management, Chiller Plant, you can enhance your response team's agility and prevent downtime with continuous monitoring and clear visibility of your data centre's facility and IT infrastructure.



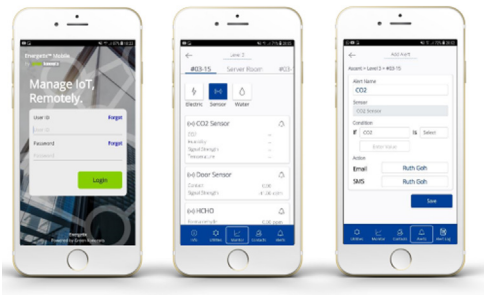
### Data Driven Insights

Gain deeper insights with granular data over a broad range of parameters - from power usage, Computer Room Air Conditioning units (CRAC) efficiency, temperature, humidity, battery availability, Uninterruptible Power System (UPS) efficiency to leak detection and chilled water consumption.



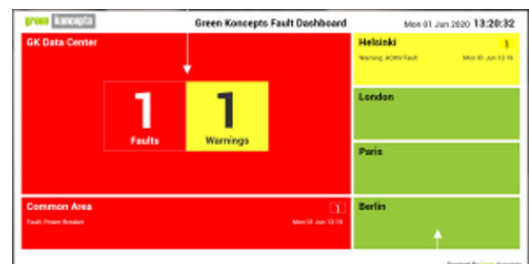
### Highly Scalable

Set up and scale rapidly from a single site to multiple sites for both legacy and new build data centres, across geographical regions, with minimal downtime.



### 24/7, 365 Accessibility Through Mobile App

The user-friendly and configurable mobile app allows data centre facility managers to view infrastructure performance of multiple locations at any time and from anywhere. Set alarms on condition thresholds and assign standby personnel to receive alerts via SMS/email/voice notifications.



### Centralised Fault Dashboard for Quick Turnaround

For use in Command Centres, the fault dashboard displays fault notifications in real-time by fault type and locations, enabling duty personnel to quickly respond and rectify the faults. Colour codes allow categorisation of alarms and faults in terms of severity, empowering data centre managers to understand events and respond quickly.



# Key Features



## Environment Monitoring

Utilise temperature and humidity heatmaps for an overview of current data environment conditions so that your data centre facility managers can detect potential and existing problems proactively to ensure uninterrupted operations and maintain optimum service levels.

## Power Management

View to-the-minute data of your power consumption, capacity utilisation and energy costs across multiple sites, right down to the device level. Compare and analyse utility costs and performance data across sites and devices to accurately identify peak demand and find improvement opportunities for cost reduction.



## Branch Circuit Monitoring

Know your power consumption at every point in your data centre's power chain. Monitor circuit-level electrical parameters such as voltage, amperage and power to get real-time visibility of PDU power utilisation for advanced warning and prevention of tripped circuits and unbalanced loads.

## Chilled Water Monitoring

Submeter chilled water for CRAC units to monitor CRAC efficiency. This helps to drive maintenance operations.

## UPS, Trip & CRAC Monitoring

View real-time data trends of critical UPS, backup battery, trip status and CRAC units. Gain in-depth insights of your data centre's operation status, capacity and utilisation to optimise efficiency and improve operational performance.

## Automated Reporting

Track and analyse key metrics such as Power Usage Effectiveness (PUE) and Data Centre Infrastructure Efficiency (DCiE) to compare data centre performance against green data centre benchmarks.

# Leveraging Data to Create Intelligent Data Centres



## **Centralised Management**

Manage multiple Data Centres or multiple IT Server Rooms in a data centre from a centralised point of management.



## **Modular & Scalable**

Start with a single IT Server Room and scale up to multi Server Rooms or Data Centres. Flexible and robust solution.



## **Reduce Energy Costs**

Realise up to 20% energy savings with energy efficient infrastructure and intelligent data analytics.



## **Improve Productivity**

Improve employee and team productivity via easy-to-use and accessible applications on mobile, web or dashboards that provide different user groups relevant and timely information, all at once.



## **Open Platform**

Select and choose from a wide range of supported devices and equipment and have them seamlessly integrated via an open-standard and interoperable platform.



## **Leverage Data Analytics, Machine Learning & Artificial Intelligence**

Gain strategic insights on your data centre operations and enhance them with data analytics, AI and ML. Integrate multiple data sources, measure the right metrics, and use clear visualisations to drive operational success for your data centres.

## **Flexible and Modular Solution**

Energetix™ is an industry highly scalable and open IoT platform for facility, operations, energy and sustainability professionals. Its flexibility and modularity allows businesses to deploy a DCiM only module or go with a suite of energy management applications that ranges from power to water to ACMV management, depending on facility requirements.

With a complete suite of Energetix™ IoT Applications, Green Koncepts helps make management simple.

Contact us to discover how our Energetix™ IoT applications provide a cost effective and efficient solution for your properties and assets.

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