

# Holistic Energy Management and Thermal Waste Integrated System for Energy Optimization

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# SAT: Self-Assessment Tool for Data Centre Energy Efficiency

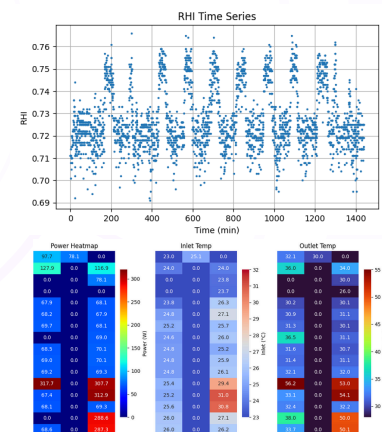


*Measure, Report, Improve*  
*Smart Assessment for Greener Data Centres*

The Self-Assessment Tool (SAT) is framework developed within the HEATWISE project. It enables data centres to evaluate their energy performance based on standard KPIs and generate assessment reports.

## Key Features

- 🕒 Real-time and historical data integration
- 📈 Automatic KPI calculation
- 📊 Visual dashboards with time-series plots and rack-level heat maps
- 🔧 EED and ASHRAE assessment
- 📄 PDF report generation
- 🌐 Scalable to multi-site and multi-user use
- 🔗 Integration with data monitoring systems




## How SAT Works




- Evaluate efficiency of the data centre according to the KPIs.
- Generate a comprehensive report within the selected reporting period.

## Technical Advantages

 **KPI-Based Intelligence:** Calculates standardized energy and thermal performance KPIs from IT, cooling and infrastructure data.

 **Modular KPI Plug-in System:** Features a flexible plug-in architecture that allows easy integration of new KPI formulas and evaluation criteria as needed.

 **Seamless Integration:** Compatible with DCIM tools, supports smooth deployment across a wide range of monitoring systems.

 **Automated Reporting:** Generates PDF reports that include average KPI values, time-series plots, rack-level heat distribution and compliance-ready summaries.

 **Dual Platform Availability:** Available both as a standalone application and a web-based service, offering flexibility for different operational environments.

 **Real-Time and Retrospective Analysis:** Supports both live data acquisition and historical dataset import, enabling performance tracking over time and detailed audits.



WEB Version



Standalone Version

## Why SAT ?

 Supports compliance with the EU Energy Efficiency Directive

 Simplifies complex data collection and reporting workflows

 Enables transparency, benchmarking and operational insights

 Encourages proactive monitoring and sustainability practice

## Collaborate with Us

Start using SAT to assess, report and optimize your data centre's energy performance. Join us to help shape the future of energy-aware digital infrastructure.

 **Contact:** [datacenter@dstechs.net](mailto:datacenter@dstechs.net)  **Project Info:** <https://heatwise.eu/>



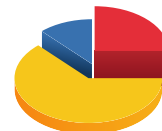
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