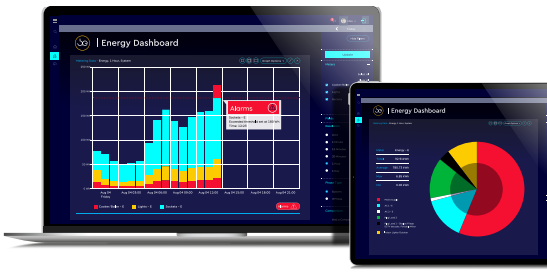
ENISCOPE

Location: Ireland | Sector: Manufacturing (LED signs) | Facility Size: 5500m2/60,000 sqft

Partner: Energy Data Solutions (EDS) | **Client:** Daktronics Ireland Ltd

Energy Data Solutions delivers over €20,000 annual savings for manufacturing client, reducing bills by 12.6%



Irish Partner, Energy Data Solutions, has partnered with manufacturer, Daktronics Ireland Ltd, a world leader in producing LED display signs and solutions for airports, public transport, and traffic management. Daktronics has been providing solutions for the transportation industry around the globe for over 40 years, from motorway signs and fuel price display signs to digital food menus, airport information signs, and more.

Challenges

Sustainability was a priority for Daktronics, and they initiated a project in conjunction with SPECO Sustainability Consultancy Services to look at different aspects of sustainability. This project identified energy monitoring as an area with the potential for valuable energy and cost savings across its two production areas.

Results

Total energy-saving opportunities identified:
10% | €22,000.00

Total energy savings achieved:
12.6% (in just 4 months) | €27,720 pa

ROI of less than
6 months

Total energy visibility across the site, down to asset level

Weekly reporting of electricity consumption

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CASE STUDY

Solution

EDS installed two Eniscope systems during the company's shut-down period, initiating minute-by-minute real-time energy monitoring and granular asset-level data for over 30 key assets.

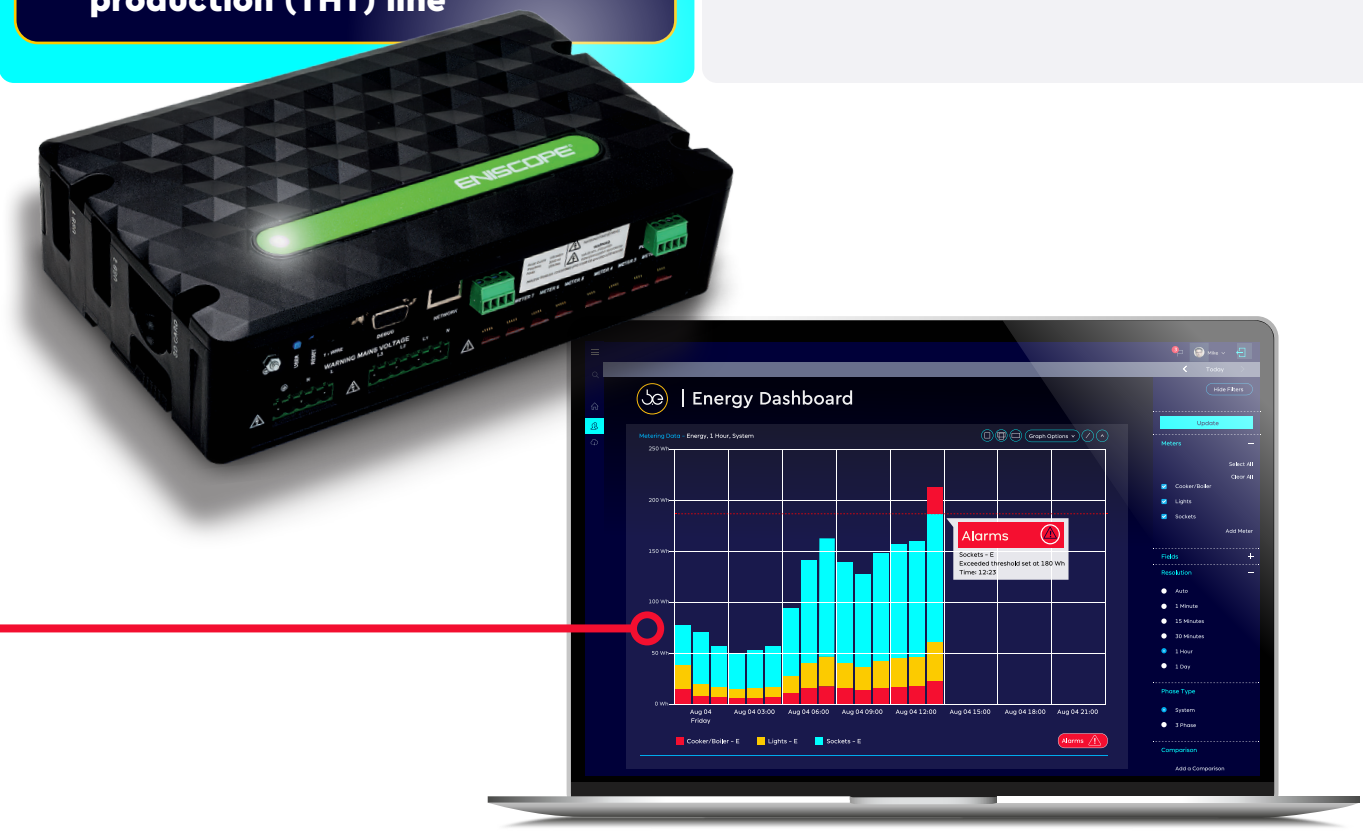
Thanks to this granular data, EDS profiled energy use across Daktronic's high-use equipment and production lines, enabling them to pinpoint patterns of energy wastage and identify two vital opportunities to reduce their energy use:

1. **Compressor usage for nitrogen production**
2. **Scheduling of their through-hole production (THT) line**

Testimonial

"I found EDS a pleasure to deal with, very professional and enthusiastic. We've had the Eniscope monitoring system in for two months now, and have already identified and implemented significant savings. I would highly recommend EDS to anyone looking into implementing energy monitoring in their business."

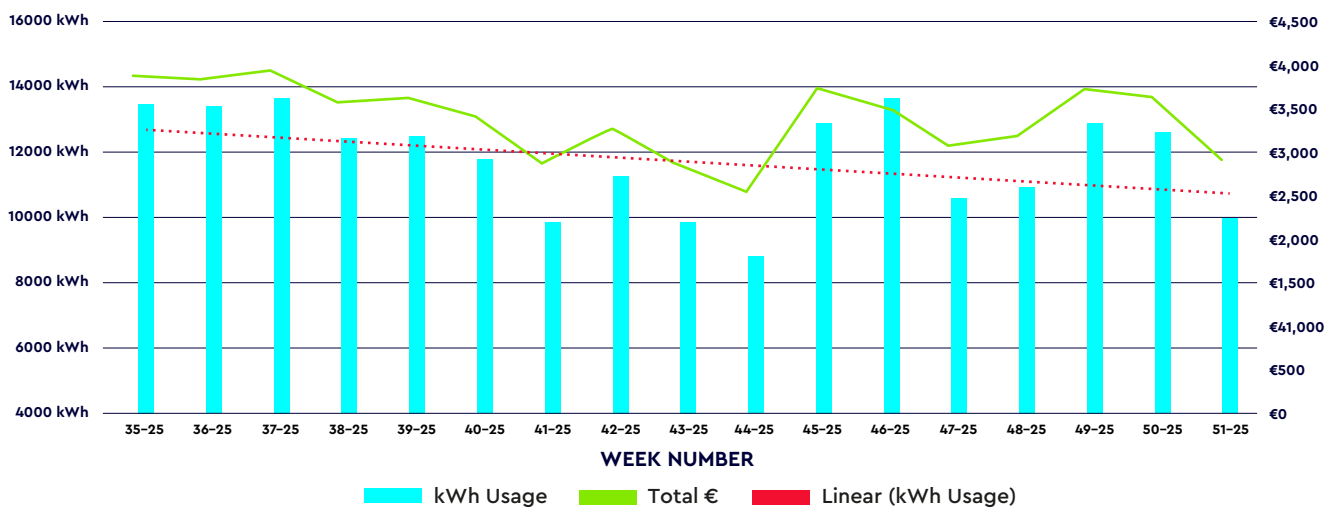
John McGrath
EH&S Specialist
Daktronics Ireland



CASE STUDY

Impact

After the initial energy profiling in the first month, it was clear that the THT line and compressor for nitrogen production were running for much longer than required for manufacturing. After a discussion with the Production Manager, there was a focus on reducing the equipment usage through improved scheduling, in order to reduce the total site kWh usage, as shown in the graph:



Based on these two areas alone, Daktronic's weekly kWh usage has reduced from 13,500 kWh to 11,800 kWh, yielding a 12.6% reduction in the site's energy use.
This equates to an annual saving of €23,450, cutting operational costs and improving the bottom line. This is a significant first step for Daktronics, and it highlights how quickly the Eniscope system can yield significant savings for a manufacturing business.

The Bottom Line

Manufacturing is a prime example of a sector with high-energy intensity, energy usage, and in many cases, energy wastage. However, as demonstrated by Daktronics, with proactive energy monitoring and management in place, this high energy consumption can be minimised, and energy bills can be dramatically reduced as part of the journey towards more sustainable manufacturing operations.