

# CASE STUDY



## Wireless Energy Monitoring and Control

Invisible Systems, helps Teesside-based ElringKlinger, understand it's energy profile with granular energy monitoring across a selection of machines and incoming supplies.

**invisible systems**  
DELIVERING INFORMATION



"The system is already helping ElringKlinger identify high energy consumption and influencing the company's targeted energy savings. We have also received further enquiries from other NEAA members as a result of the event."

**Vahid Tambe / Technical Director / Invisible Systems**

"After the initial investment for the Real-Time system, we have utilised it to monitor our biggest energy users and have developed a cost saving program of energy reduction which we can show to our employees using the bold graphics and utilising the compare facility of the system."

**Tony Bunker / HSE Officer / ElringKlinger**

## Background

Following on from a successful energy monitoring installation with Kasai UK Ltd, which provided savings and helped with behavioural change, deputy managing director, Peter Watson invited Invisible Systems to present its wireless monitoring solution to the NEAA in July 2016.

## Approach and Solution

After presenting to the members, Invisible Systems received instruction to install a monitoring solution at ElringKlinger's factory in Redcar, Cleveland.

ElringKlinger identified a need to understand energy consumption within its manufacturing process that could be installed quickly, had no interruption on the manufacturing process and provided granular half hourly energy data.

The Invisible Systems RF wireless system is versatile, it not only monitors utilities such as electric, gas, water and steam, but reports on productivity and conditions within the manufacturing or critical environmental areas.

Battery powered transmitters are simple to install and are available in various forms. A cellular/ internet gateway collects the information and sends data over the mobile network to Realtime Online, a web based reporting and alarm notification platform.



## Outcome and Advantage

- Within 48 hours of instruction to install, several RF wireless sensors had been installed and commissioned.
- Helping identify high energy consumption and influence its targeted energy savings programme.

### About ElringKlinger

Teesside-based ElringKlinger GB Ltd is a subsidiary of the multinational company, ElringKlinger AG. Experts in the design and manufacture of speciality gaskets from both soft and hard materials, the company also produces sealing solutions for engine, transmission and exhaust applications, as well as manufacturing heat shields both for engine bay and under body.

### About Invisible Systems

Invisible Systems is an established company, now in its 14th year, providing Wireless Energy and Condition Monitoring for many clients such as Greggs, National Grid and Delphi.

• networking • business excellence • skills & training • sector voice • innovation • collaboration • promotion

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