

Energy

Business Sector: Education

**NOTTINGHAM
TRENT UNIVERSITY**



**On target for
48% carbon reduction**

Nottingham Trent University

“ *Nottingham Trent University became one of the first Universities to be awarded Eco Campus Platinum Standard.* ”

Universities like all public bodies are under mounting pressure to consider the impact on the environment of every day operation

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Project Objectives

Customer needs:

- ✓ Accurate half hourly metering
- ✓ Reduce environmental impact
- ✓ Communicate results
- ✓ Modify metering behaviour

Project Outcomes

550

sub meters installed

Eco Campus Award

platinum standard awarded

ISO14001 standard

for environmental management

All Universities will have their performance against targets such as utility consumption and carbon emissions measured, the results of which will impact upon the amount of capital funding that is received from HEFCE (Higher Education Funding Council for England).

Nottingham Trent University has a **target to reduce carbon emissions by 48% by 2020** based on a 2005/06 baseline.

“Working with Invisible Systems enabled the University to identify where they were consuming utilities and how they could optimise energy use”

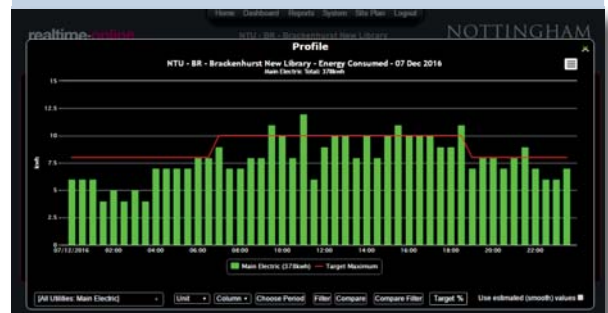
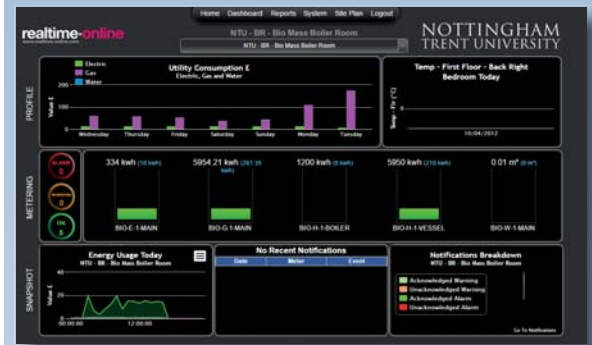
Implementation

Nottingham Trent University has multiple buildings across three sites around Nottingham with a total Estate in excess of 260,00m².

To date over **550 sub meters** have been installed throughout the buildings, with 300 of these being installed since 2009 and operational for over 7 years.

Building energy display screens were installed in order to inform occupants of the building about their consumption habits awareness of their part in consumption.

Placed top of the Green League over 130 UK Universities for environmental practices



Project Requirements

In order to achieve these targets there was a need to have a better understanding of utility consumption.

It was imperative that accurate half hourly metering in all buildings was installed in order that they could:

- Engage visitors in the Universities environmental objectives
- Develop a profile of consumption using sub meter information
- Modify behaviour by delivering real-time messages

Invisible Systems is a software & electronics design manufacturing company that focuses on Energy Saving, Compliance and Asset management via robust RF wireless Monitoring and Energy solutions with our Realtime-Online software management portal.

Our solutions include Energy metering, Critical Asset management, Boiler Control, Water Hygiene & Food temperature compliance, plus general condition monitoring and control.