



REDUCING CARBON EMISSIONS BY BETWEEN 30% AND 80%

A STATE OF THE ART ENERGY MANAGEMENT SYSTEM FOR THE CONSTRUCTION SECTOR



PROJECT SNAPSHOT

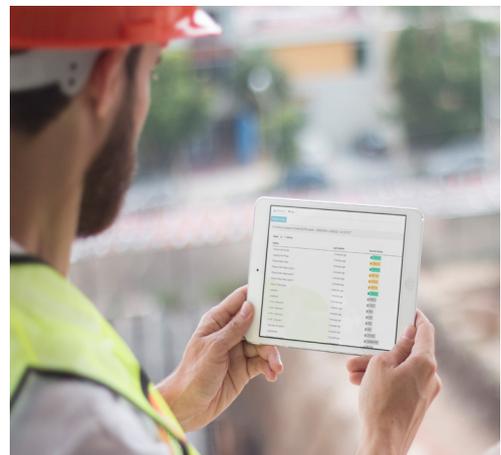
In line with the “net zero carbon emissions” initiative is driven by the Global Paris Climate Agreement. All construction companies are now expected to work towards this initiative and are under increasing pressure from stakeholders to publicise what they are doing to achieve it.

In alignment with this, the UK Government have set out the “Construction 2025” initiative. A key focus of this initiative is reducing the emissions of the construction industry by 50% in 2025.

As part of their “Building New Futures” Sustainability Strategy, Balfour Beatty worked with Invisible Systems to implement **Eco Lync**.

Eco Lync is an **energy management system** that automatically turns appliances and equipment off when not in use, including over weekends and when sites are not occupied. This helps to regulate consumption when demand is at its highest, reducing demand on grid connections or diesel generators used to power sites.

Initially trialled on Balfour Beatty’s East Leeds Orbital Route project, a large-scale highways contract to build 7km of outer ring roads around Leeds city centre, the system is now in place on over 20 sites.



PROJECT OBJECTIVES

- Work towards sustainability initiatives
- Reduce carbon emissions
- Win more bids
- Prepare for the removal of the red diesel subsidy
- Reduce fuel consumption
- Reduce generator costs



PROJECT OUTCOMES

By using Eco Lync, Balfour Beatty were able to **reduce their carbon consumption by between 30% and 80%** across their construction sites.

They also saved a notable 50 litres of diesel per cabin per week on their A51 Junction Improvement Scheme. This is equivalent to **saving £110 per welfare cabin every month.**

By automatically managing the demand of power to avoid unnecessary peaks and switching non-essential assets off during demand spikes, Balfour Beatty's energy consumption and costs have been reduced.

Invisible Systems continue to work with Balfour Beatty to assist them in meeting their target of carbon neutrality.

“Once Eco Lync is fully embedded, Balfour Beatty will save a minimum of 2,200 tonnes of carbon dioxide emissions per year”

- **Michael Flood**, Energy Manager, Balfour Beatty.