

44% reduction in property emissions

Centrica is driving down carbon emissions across its global property portfolio through technology, innovation and cultural change



Property as a carbon reduction driver

In 2007, Centrica set itself the target to reduce the global carbon emissions of its property, fleet and travel by 20% by 2015. One of the most significant contributors to emissions is the organisation's property portfolio. Therefore, Centrica focused on technology, innovation and cultural change to reduce emissions across its property portfolio.

Smart solutions to energy management

Across the UK, Centrica made a number of changes to the way energy was generated, managed and consumed.

A number of UK sites incorporated biomass, solar thermal and Combined Heat & Power energy units. LED lighting was installed across numerous sites, including the head office. Meanwhile, enhanced Building Management Systems allows Centrica to gain greater insight and control over the energy it consumes to increase operational efficiency. Some sites also switched energy supply contracts to use low carbon biofuel from recycled waste cooking oil.

At the same time, Centrica rationalised property to increase occupancy levels and reduce wastage.

The results

Over an eight-year period, these efforts have led to a 44% reduction in global property emissions since 2007. This contributed to an overall internal carbon footprint reduction of 27% across Centrica.

Key highlights include a 40% reduction in energy use per full-time employee in the UK. A low carbon office in Oxford was also developed as a showcase by Centrica capable of obtaining over 30% of its energy from off-grid low carbon and renewable technology.

With a new target in place to achieve a further 20% reduction in internal carbon footprint by 2025, the reduction programme is gaining pace.



in global property emissions



in energy use per full time employee in the UK



energy from off-grid sources in Oxford

“

By using our energy solution expertise and arming ourselves with real-time data, we're empowering our business to identify meaningful carbon emission and cost savings.”

Jim Rushen, Head of Environment, Centrica

How?

- **UK Property:** battery storage, chiller optimization, chiller upgrade, CHP, distributed generation, PV, Heat recovery, HVAC, LED, red-zone, optimising server rooms, thin client PC, site replacement.
- **North American Property:** office consolidation and occupation optimisation, energy insight, efficiency and renewable power generation.

This has seen emissions from Centrica's global property portfolio decline a further 10% in just two years.