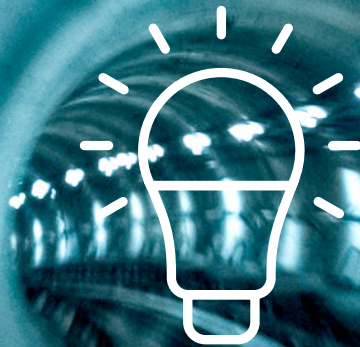


# The journey to Energy Efficiency

Lower the cost of doing business

Product series  
September 2017





## The Power of Energy Efficiency



### Powering the Future

Energy Efficiency can help you turn energy usage into a value-adding resource, driving sustainability and delivering a real competitive advantage



### Powering Performance

Energy Efficiency will help you improve performance, reduce costs and lower your carbon footprint



### Powering Resilience

Energy Efficiency will help you reduce business risk by ensuring the reliability of your assets



# Make the cost of doing business less costly

Finding a way to manage energy costs, improve efficiency and increase productivity is at the heart of any business. But with the cost of doing business rising on the one hand, and customers wanting more for less on the other, profit margins are being squeezed. Identifying areas where efficiencies can be made – and sustained – is critical.



# Energy Efficiency from Centrica Business Solutions

It starts with an Energy Efficiency audit of your entire estate. This can identify areas of wastage and inefficiencies, not just in your operations, but in the fabric of your building. We will then work with you to initiate an energy strategy that includes everything from equipment and installation to funding and ongoing maintenance. We can even run energy efficiency workshops to involve your staff in energy saving initiatives.

## Areas considered in the audit include:

- Lighting (replacement, installation of controls, lighting plan redesign)
- Building Management System (BMS) optimisation (humidity controls, zoning, temperature and schedule adjustments)
- Building fabric (increased use of natural daylight, envelope insulation, window & door seals)
- Insulation (pipework, ductwork, hot water tanks, heat exchangers, valves)
- Heating system (boiler replacement, Variable speed drives (VSD) on pumps, demand driven controls, heat recovery)
- Cooling system (chiller replacement, DX Systems, temperature adjustments)
- Behavioural change (awareness campaigns, energy champions)

These solutions, coupled with any of our other energy technology solutions like combined heat and power (CHP), energy insights, battery storage and demand side response (DSR) can integrate to make your business more energy efficient – giving you greater control over your energy usage and costs, creating value and reducing risk to your operation.







## What does Energy Efficiency look like?

### Solar PV

A low carbon solution, excess generation can be sold and used to claim renewable subsidies

### Energy-efficient lighting

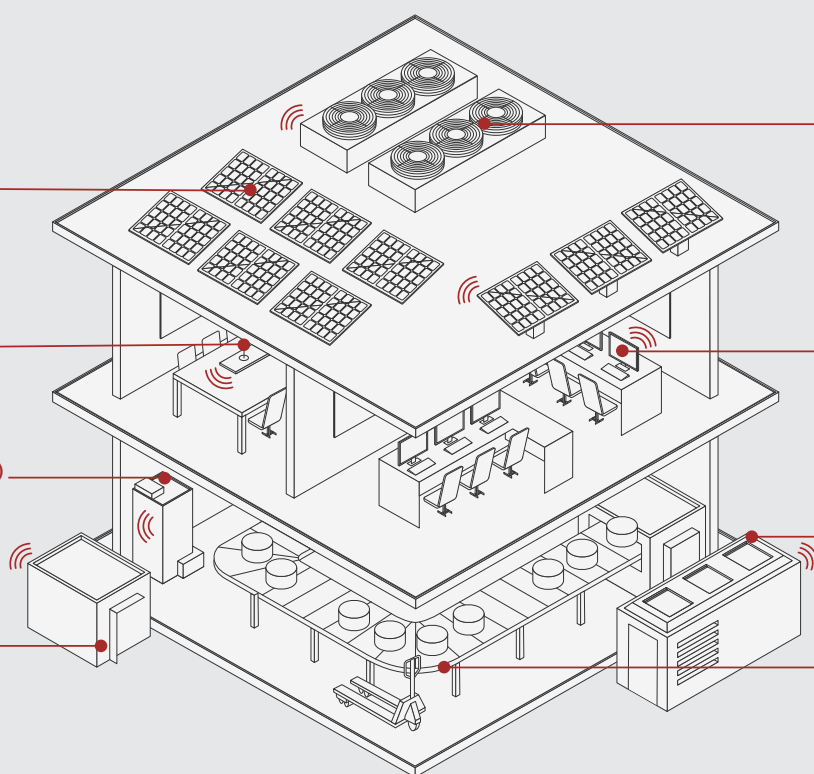
LED lighting can significantly reduce energy demand, cost and your carbon footprint

### Combined Heat & Power (CHP)

One of the most efficient sources of producing energy. The heat produced in generating electricity is captured and used for heating

### Battery Storage unit

Transform the way you use energy by storing electricity produced on site to be used when you need it, and avoid higher costs



### Heating, ventilation and air-conditioning (HVAC)

Improve climate control in your building by optimising existing systems or replacing equipment to reduce energy consumption

### Wireless sensors

Get to grips with how much energy you're using, how efficient you are and identify ways to save

### Back-up generator

Manage site resilience, reduce risk to your productivity and unlock new sources of value for your business

### Flexible load

Save money by reducing demand at peak times, and adjusting your energy use to when it's cheaper and more efficient for your organisation



## Centrica Estates – Delivering success on our own doorstep

In 2010 Centrica's Chief Executive challenged the Group to reduce its global carbon footprint by 20% against a 2007 baseline, to be achieved by 2015. The programme was so successful, this target was later increased to 25%.

Expanding on a number of existing sustainability initiatives, including an exercise to optimise the control of buildings by improving the Building Energy Management Systems (BEMS) on-site, Centrica installed an online remote monitoring system, which captured real-time energy performance against pre-determined target profiles.

Significant savings were achieved in the early stages of as energy saving opportunities were identified and implemented. An Energy Efficiency programme was launched that included the replacement of old, redundant or obsolete plant assets with new, energy-efficient equipment which reduced maintenance costs.

This, and other initiatives, enabled Centrica to:



**CO<sub>2</sub> reduction of 1540 tonnes CO<sub>2</sub> per annum**



**Energy savings equivalent to £527,418**



**Maximum benefit by bundling measures with both short and long payback periods**



**Improved energy management and performance**

## Energy Efficiency in five simple steps

The prospect of implementing energy efficiency improvements throughout your organisation can seem like too big a task to know where to start – so we've taken the burden off your shoulders and turned it into a simple, five step process.

### 1. Investment Grade Audit (IGA)

- Establish a baseline of energy consumption and identify potential savings
- Define energy efficiency measures, cost savings and investment required for implementation and payback

### 2. Analytics

- Energy Insights determine energy and carbon saving measures for your business
- Centrica energy experts work with you to determine project success criteria and key outputs

### 3. Design

- Energy expert-led design
- Utilise a combination of solutions to build an overall efficiency strategy
- Co-ordination of stakeholders

### 4. Implementation

- Structured programme to put in place solutions with minimum disruption of day to day
- Secure project works at competitive prices and deliver best value using Centrica's buying power

### 5. Performance Management

- Maintain optimum energy performance through our comprehensive Performance Management Service

### Want to know more?

Energy efficiency, is generating new opportunities across all types of industry. Find out how we can help you power new levels of performance today.

[centricabusinesssolutions.com](http://centricabusinesssolutions.com)

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