

# Wireless Energy Harvesting for sensing and control in Buildings

**John Corbett, EnOcean**

Powering and electronic control, communications and monitoring without the need for batteries or a power supply is no longer a pipe-dream.

The most promising option for batteryless, wireless control is energy harvesting – a technology that EnOcean has pioneered for the last decade. As the name implies, energy is harvested from surroundings – for example, from motion, light or temperature differences. It makes electronic control systems independent of an external power supply. Even humans can serve as a source of energy, generated by applying pressure on a button or heat given off by the body.

Over the years, this technology has been developed and refined to enable a broad range of everyday applications that were virtually unimaginable just a few years ago – for example, control of lighting, heating, ventilation or air-conditioning in residential, office and public buildings. In scenarios where traditional cabled systems would be far too complex and uneconomical, energy harvesting wireless technology offers unprecedented freedom to place controls wherever they will achieve optimal efficiency, and with minimal invasiveness to the structure.

This presentation will introduce the EnOcean standard for building control and how it is driving the real-world benefits of energy harvesting wireless technology to market.

## Biography



John Corbett is the UK sales director for EnOcean GmbH and has been developing EnOcean's UK business over the past year.

He has held a number of positions in the semiconductor industry including founder director for Fairchild Europe. Although a seasoned technical sales and marketing professional, his engineering background has not been forgotten. This is being put to good use helping partners develop new & innovative solutions based on EnOcean's' energy harvesting wireless technology. John is currently leading a number of UK initiatives in the building, smart energy and industrial markets where EnOcean is being used.