



# Energy Monitoring

**YOU CANNOT MANAGE WHAT YOU DO NOT MEASURE**

A proven and mature, end-to-end application for the monitoring of energy consumption, providing the information that you need to reduce your energy costs and environmental impact, whether you represent a Government Enterprise, Educational Facility, Business or OEM.

“ The purpose of monitoring and targeting (M&T) is to relate your energy consumption data to the weather, production figures or other measures in such a way that you get a better understanding of how energy is being used. In particular, it will identify if there are signs of avoidable waste or other opportunities to reduce consumption ”

Source: Carbon Trust

## Benefits

- Proven to reduce Energy Consumption and costs from **10% to 40%** depending on application
- Cloud based application with no direct connection to existing IT infrastructure
- The ability to identify wastage in real-time rather than retrospectively at billing time
- The ability to graphically represent efforts to reduce energy consumption
- Can incorporate all utility data i.e. Electricity, Gas & Water together with monitoring energy produced through micro generation i.e. PV Solar, Wind Turbine, Biomass.

## Overview

Onsite Renewables can provide an end to end, fully installed and commissioned solution for energy monitoring and targeting. Utilising a range of low impact, battery power radio sensors and cellular gateways this solution is a rapid, low-cost installation that instantly provides energy management information via a cloud based, web application.

The Web application offers the opportunity to configure thresholds for expected energy consumption. Where these thresholds are exceeded the solution provides email and SMS alerts to a user so that corrective action can be taken.

## Examples of waste and saving that have been identified by employing M&T include:

- Losses that would have equaled £3,500 a year were incurred when a limit switch came loose at a waste-water treatment works, causing some machinery that should have been running Intermittently to run continuously.
- Gas consumption at a council depot doubled when a maintenance contractor left the heating system running 24 hours a day.
- The front steps of an office block were found to be costing £5,000 a year because the control had failed on the de-icing heaters (which the owners did not even know they had).
- Frost-protection systems are a prime cause of waste. One energy manager cut the electricity consumption of his HQ building by 40% when he found that all the electric frost protection pre-heaters were running on his air handling units.
- Hundreds of pounds a year were lost when someone left a bypass valve open on a steam trap in the basement of a paper mill.

Source: Carbon Trust

