



Saving energy in real HVAC systems – the iSERVcmb project at the halfway stage

Largest IEE supported project

The iSERVcmb project has now completed 18 months of its 3 year funded period. It has already achieved some notable outputs and impacts including:

- A sophisticated stand-alone spreadsheet suitable for collating and understanding HVAC systems in new and existing buildings. This spreadsheet has been endorsed by CIBSE and REHVA as meeting professional standards for this purpose.
- The on-line database is up and running, with a series of specific reports currently being written to leverage the data in the database on the buildings and the systems installed.
- 35 buildings, 213 HVAC systems and 1,096 HVAC components have been entered into the database at the present time.
- A first set of HVAC component benchmarks by activity have been produced from existing data sources to demonstrate how the benchmarking of systems and activities can be presented and displayed. These have been used to provide the first benchmarks in the systems entered on the database.

Achieved energy savings in a participating building

iSERV predicted electrical energy savings of between 5 to 60% in individual HVAC systems assuming no previous focus on reducing energy use. McKenzie House in Cardiff University has achieved a reduction in its overall BUILDING electricity use of over 30% since efforts to reduce energy use started in 2005, of which 22% (or 43 kWh/m²) is due to better control of the existing HVAC equipment. In this one building the monetary value of the electrical savings alone is over €80,000 per annum.

Participating in iSERV

The project is still looking for owners with HVAC systems which have dedicated energy monitoring for at least some of their HVAC components. If you are interested in helping set new benchmarks for HVAC systems components and potentially saving significant amounts of money please register your interest at www.iservcmb.info and one of the iSERV partners will contact you to tell you how to enter your system into the project on-line database. ☞

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Final version of the Energy Efficiency Directive

The text of **Directive 2012/27/EU on energy efficiency** was published on Nov 14, 2012 in the Official Journal of the EU. The Directive brings forward legally binding measures to step up Member States' efforts to use energy more efficiently at all stages of the energy chain – from the transformation of energy and its distribution to its final consumption. Measures include the legal obligation to establish energy efficiency

obligations schemes or policy measures in all Member States. These will drive energy efficiency improvements in households, industries and transport sectors. Other measures include an exemplary role to be played by the public sector and a right for consumers to know how much energy they consume. The directive is available in the major EU languages also at the Build Up portal: www.buildup.eu/publications/32236 ☞