What **could be saved?**

Savings of up to *33%* in a building's total electrical energy use – often for little capital outlay.

Annual energy savings around *9% - 15%* on average.

Projected annual electrical energy savings across the EU Member States are 0.3 to 5% of its total annual primary energy use.

Projected **annual electrical cost savings between *€1,400M – €60,000M*, based on achieved savings in operational buildings.**

Time – staff resources, time spent investing in the wrong areas, quicker reduction of unnecessary resource use.

"Project Overview"
at www.iservcmb.info/results for more detail.

Have these **savings** been **checked?**

The project **concurrently measured Indoor Air Quality in a sample of 62 systems across Europe and Physically Inspected 64 iSERVcmb HVAC systems.**

These tests showed that **individual system findings from the iSERVcmb process generally reflected the observations from the Inspections, and the IAQ measurements did not reveal problems concerning Indoor Air Quality being achieved, based on currently accepted IAQ standards.**

"Indoor Air Quality" and ***"Physical Inspections"***
at www.iservcmb.info/results for more detail.

What do the **Professional Associations say?**

"The iSERV data entry spreadsheet is an invaluable tool for gaining an overall understanding of the HVAC system described and for collating information essential for Inspections."

Hywel Davies, CIBSE

"iSERVcmb will change the guidelines on achieving energy efficiency in HVAC systems."

Olli Seppänen, REHVA

"The reports produced within the iSERVcmb will be a useful information regarding real energy use of HVAC&R products."

Sylvain Courtey, Eurovent Certita Certification

Where can I **find out more?**

Cardiff University
Ian Knight – Co-ordinator
knight@cf.ac.uk

Intelligent Energy – Europe (IEE) SAVE Project
IEE/10/272
May 7th 2011 to May 6th 2014

Project results:
http://www.iservcmb.info/results

HOW ENERGY EFFICIENT ARE YOU REALLY?

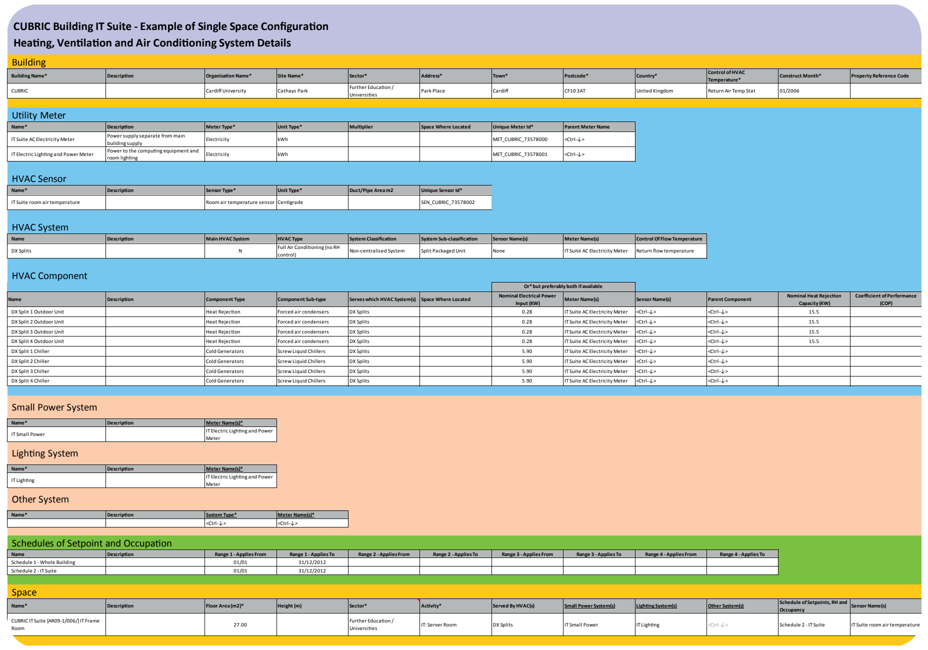
THE iSERV CMB PROJECT

www.iservcmb.info

INSPECTION OF HVAC SYSTEMS THROUGH CONTINUOUS MONITORING AND BENCHMARKING

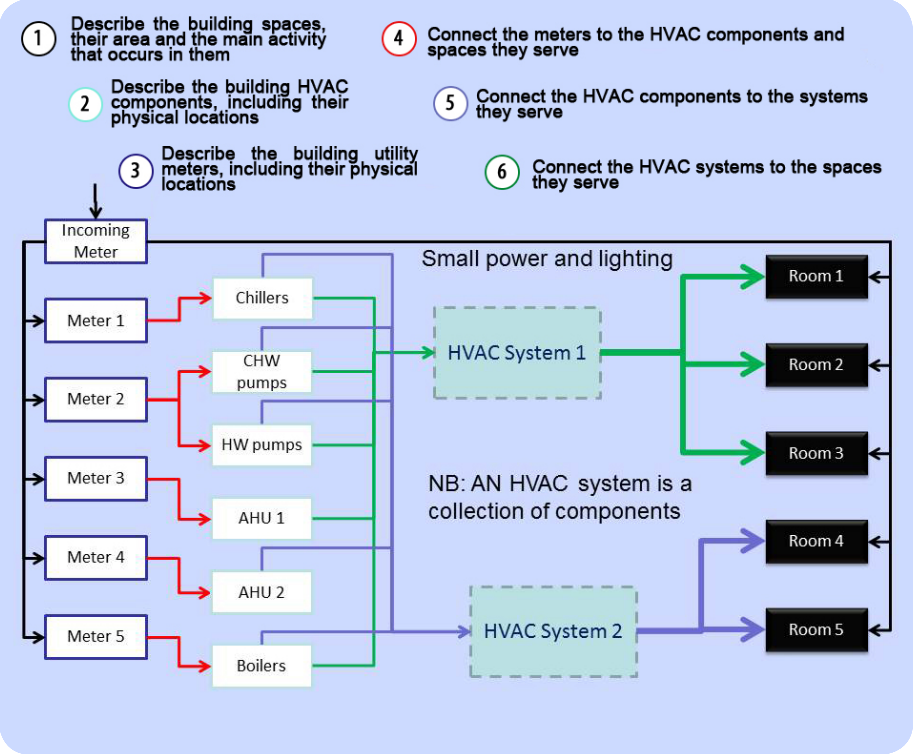
How should you describe a building to **reduce** its **energy use?**

Common format to allow comparison between buildings and systems throughout Europe



Physical asset descriptions allow actions to be focussed

Understand what connects to what



"iSERVcmb Spreadsheet"
at www.iservcmb.info/results for more detail

The **industry's view**

"iSERVcmb is the independent evidence which can sort out the wheat from the chaff."

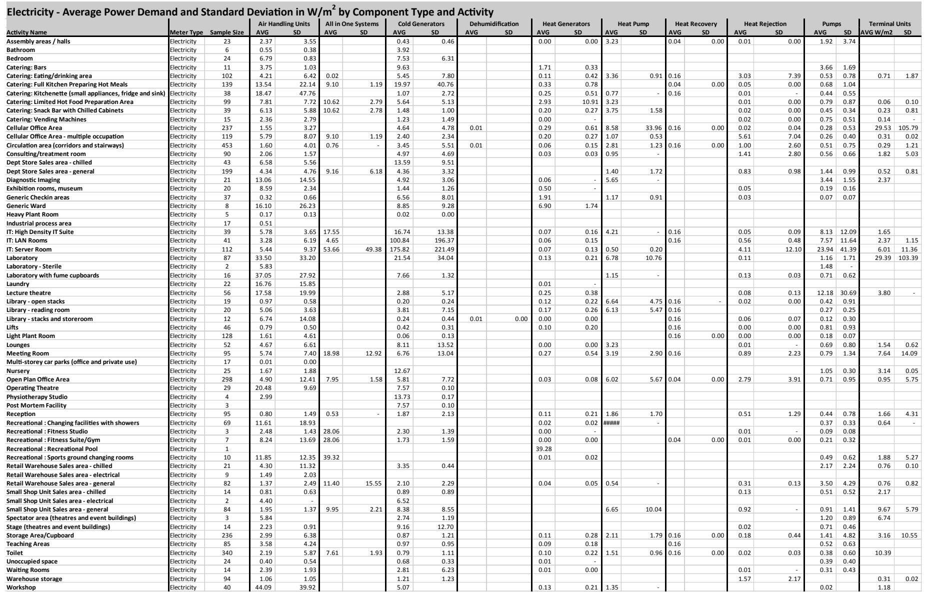
John Woollett, Swegon AB

"The iSERVcmb database provides a good first step on the road to help ensure healthy sustainable buildings for the next generations of people working in our city based economies."

Peter Dyment, Camfil Farr Ltd

How much **energy** and **power** should my building services systems use?

Measured figures for operational energy use and power demands from EU buildings and systems

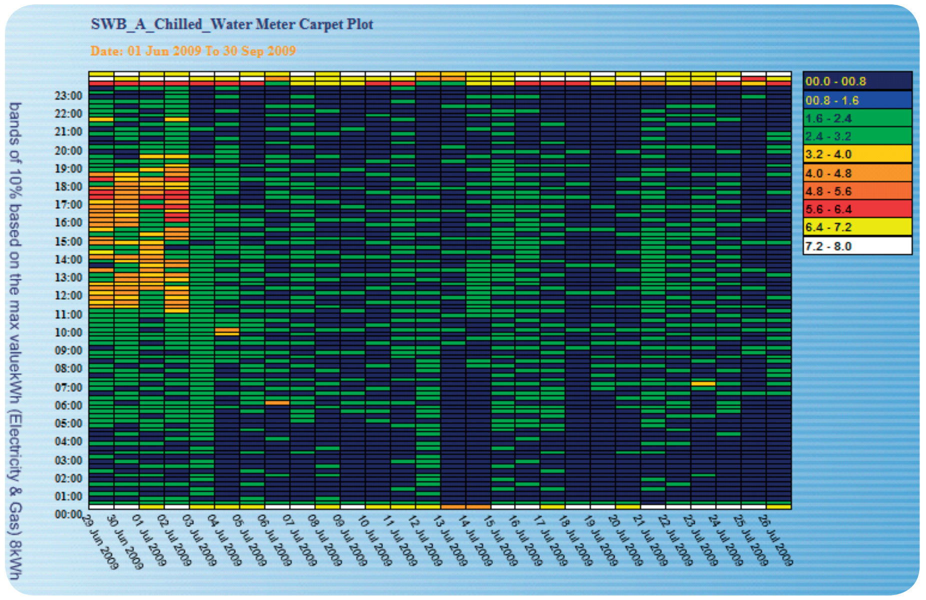


"Power and Energy Benchmarks"
at www.iservcmb.info/results for more detail

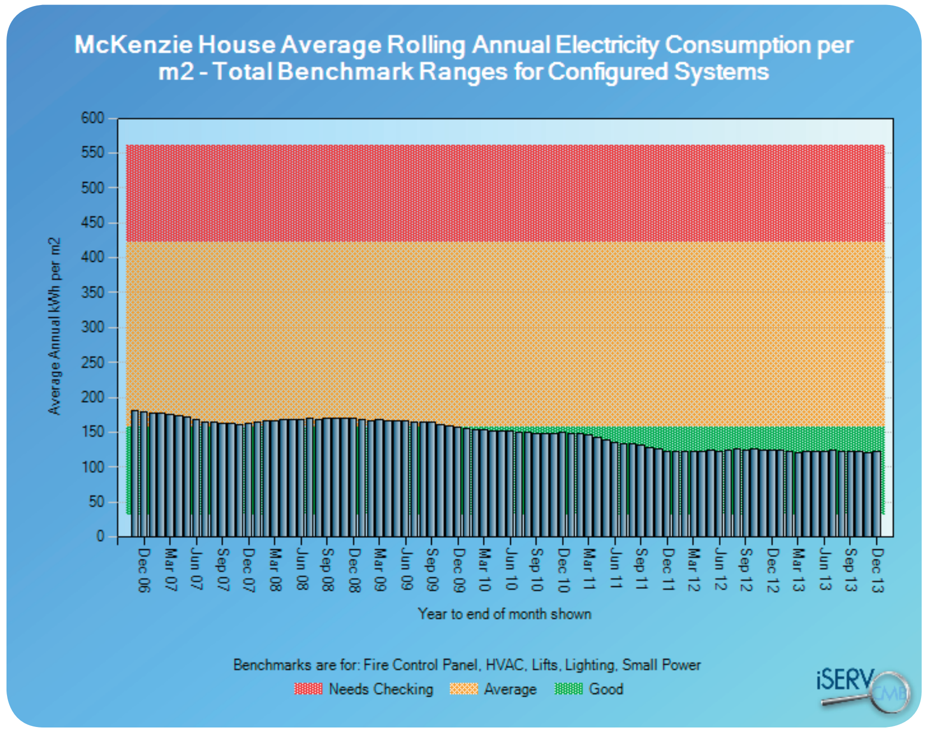
What happens when you **understand where** the **energy goes?**

Confidence to invest

Better control



Sustainable energy savings



"iSERVcmb Case Studies"
at www.iservcmb.info/results for more detail