



Take people out (of the mix)

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Who are EES?



- An independently funded ESCO delivering EnPC contracts
- Focus on mid market buildings – £50K-£300K utility spend
- Own and developed our own BEMS **HALO**
- Senses, monitors and controls on-site AC, AHU, Boilers
- Recently developed a Wireless TRV system for radiators working off same platform linked to room temperature and window opening sensors
- Typically delivers 15-40% energy savings once commissioned

The problem...



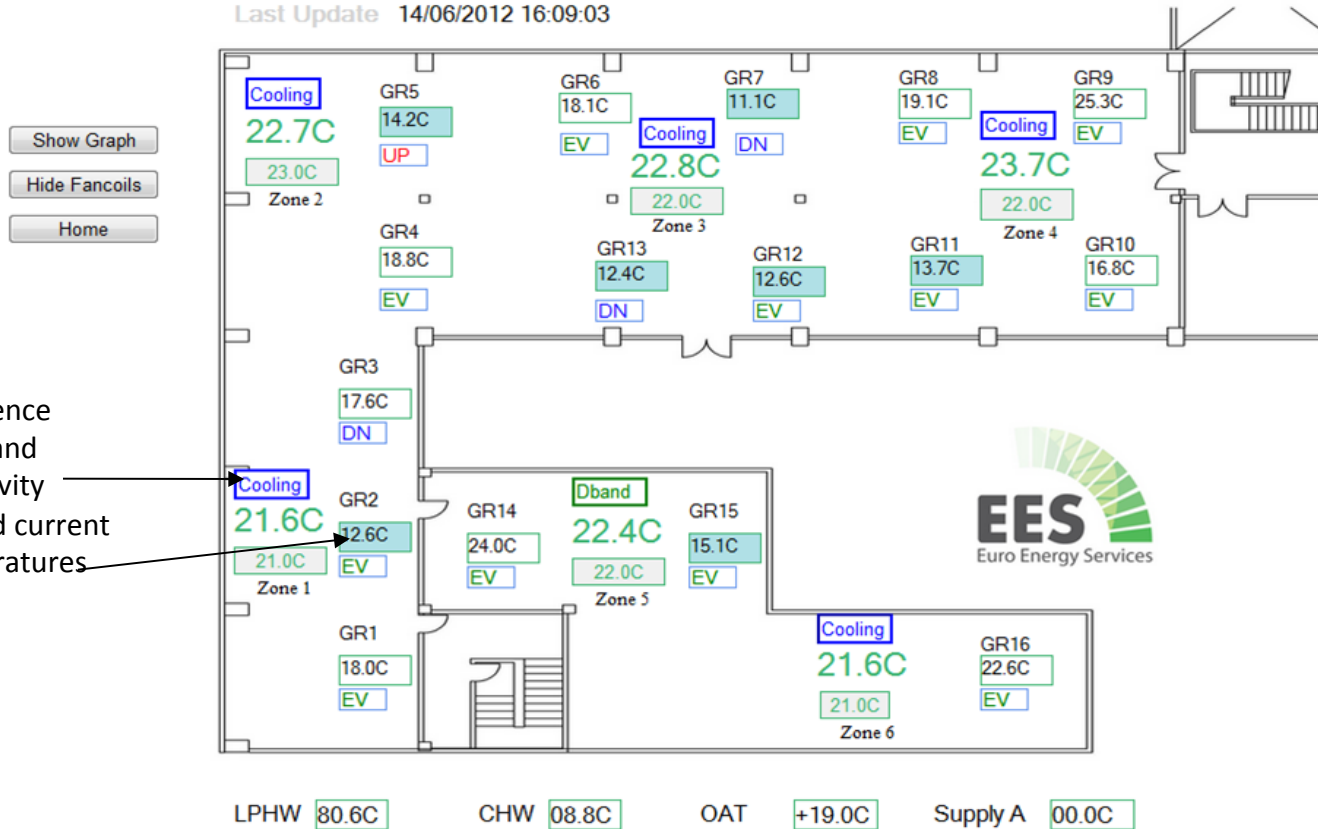
- People – energy is a low priority, significant energy apathy
- But.....only if they are comfortable
- If uncomfortable take immediate action to make comfortable
- Action typically heavy handed, immediate resolution
- Over-heat, over-cool, over-light, over-react or complain
- Frequent situation is comfort is never achieved resulting in a cycle of heating and cooling
 - One action often conflicts with the other
- Wasteful and inefficient
- If you are comfortable environment is benign, focus on being productive

Solution... deliver comfort and keep it that way

- Lighting, PIR and motion detection, Light on demand
- Traditional Building Management Systems now not just the preserve of large buildings.
 - Halo, TMAC, WEMS delivering cost effective controls to smaller buildings.
 - Sense space, outside air, chillers and boiler temperatures, humidity, CO2,
 - Intelligently control AHU's, AC, Boilers, radiators, plant
 - Wireless, Bluetooth and 3G enabled opening up new opportunities at lower cost
 - Few moving parts easy to install, maintain and very reliable
 - One way and two-way remote site control with warning alerts
 - Domestic applications, PC, smart-phone and tablet enabled
 - Buildings tracked 24/7, optimised and controlled
 - Retro-fit without disruption.
 - Local over-ride to allow issue resolution within narrow tolerances

Accurate temperature monitoring by sensing point

Last Update 14/06/2012 16:09:03



Visual evidence of heating and cooling activity by zone and current unit temperatures

(actual dashboard screenshot)

Solution....know what' s going on

- Low cost circuit level monitoring allows usage to be isolated at appliance level with BEMS making the necessary adjustment – Rifle shoot ECM' s – E:ddie
- Combined savings up to 50% without anyone being inconvenienced
- Payback < 5 years