

**Energy & Water Community of Practice meeting**

**Tues 2nd May 2017, 10:00 - 15:00**

**University of York**

**Attendees:**

Robert Douglass	University of Leeds	Energy Officer
Keith Slater	Northumbria University	Carbon Manager
Claire Mitchell	EAUC	Community Engagement Officer
Matthew Arnold	University of Sussex	Energy Manager
Rebecca Bennett	University of Salford	Environment and Sustainability Officer
Adam Fjaerem	University of Cambridge	Building Energy Manager
Heike Singleton	University of York	Carbon Management Officer
Mark Clough	University of York	Environmental Manager
Jo Hossell	University of York	Departmental Energy Manager
Philip Patrick	Staffordshire University	Energy Manager
Joel Cardinal	University of Warwick	Head of Energy and Sustainability
Andrew Bryers	Aston University	Energy, Environment and Sustainability Manager
Heather Loosemore	University of Coventry	Energy Manager

**Apologies:**

Stephen Andrews	Bath Spa University
Paul Riddlesden	University of Durham
Pamela Brandwood	Edge Hill University
Susan Peach	Sparsholt College
Ruth Dwyer	SRUC
Bob Stiff	Brunel

**Presentation: Energy Data – balancing detail and complexity, Jo Hossel, Departmental Energy Manager, University of York**

Energy efficiency, energy set up, EMS, Advertising energy use, implementing energy efficiency  
 Work in progress, Carbon Management Targets originally set by HEFCE (2005 – 2020)  
 Campus doubled in size since 2005 now with 9 residential colleges



CHPS gas fired, additional gas and biomass boiler, mix of utility company supplies, internal next supplies, District Heating, limited number of sub meters  
Reliable data required for recharge 3<sup>rd</sup> parties and extending the recharge to departments is a work in progress

Engagement - successful Student Switch Off with competition between Halls of Residence, Green Impact Programme with 21 departments, informal Sustainability Guide, One Planet Week, adoption of 10 principles of framework and spreading sustainability message

Issues - implementing energy efficiency, a high level of data resolution is needed to show effects but have made progress in reducing emissions in comparison to no intervention. Effect of wide scale recharging unclear, cost of maintaining large metering network (licence for software, legacy meters, installation issues, higher priority to replace some meters than others).

**Presentation: Getting ISO 50001 – Aston’s Story, Andrew Bryers, Energy, Environment and Sustainability Manager, Aston University**

If Institution has ISO 14001 then relatively straightforward to achieve ISO 50001 and there is no need to replicate

Different numbering system for procedure documents, key words within Energy Policy and new procedures with internal audit

Energy review – current and future projects, validate complete projects, annual consumption per building of any sub meters

Procurement of energy – additional procedures and management review

Engagement – Sustainable survey, workbooks for champions, monthly departmental electricity league and report, mascot, standard awareness events, comparing holiday consumption.

**Group discussions: Behaviour change – implementation, successes and challenges faced**

Integrate / link with HR

Lots of different events and resources are needed to encourage student engagement

Student Reps not necessarily informed, guidance is required but lack of communication with staff and Student Unions

Big energy saving push with Christmas shutdown but are students the group to target?

Staff issues – code of practice, only Heads of Departments can action any heating complaints, formal process, if staff bring in portable heaters they are no longer PAT tested so cannot use them, issue often not heating but other building faults

Implementation / successes – joint local Green Weeks (Birmingham City University and Aston University; Coventry University, University of Warwick and Country City Council), University of Worcestershire nursery part of Green Impact, staff awareness and motivation, Green Champions, awareness at home and awareness at work, Mascots, Lab Champions (bronze, silver and gold), user friendly online quizzes, sustainable walk around campus, Warp It (can be time consuming to maintain – lack of storage for furniture).



**Presentation: Sustainable Building Framework - Heather Loosemore, Energy Manager, Coventry University**

BREEAM Excellent is not enough, Coventry Estates want to move away to have a measurable set of KPI while being flexible.

2010 CMIP target 45% CO2 reduction by 2002

The Hub = BREEAM excellent + include borehole technology = DEC-C

Sciences engineering building is BREEAM excellent + Biomass boiler is not fully reliable + but DEC-C (high maintenance, use 22% of Coventry campus electricity)

Student project collating from scratch what sort of criteria makes a building sustainable and discussions with the design team about how to embed a new framework. Energy needs to be the core component. Make design clear and simple, easy to adapt, open document and work in progress.

**Roundtable discussion:**

CHP scheduling –York successful for Chemistry and Biology to run experiment out of Triad hours

York run CHP's always from 4 to 7pm during November to February

York 1+2 BEMS engineers reporting to maintenance

Cambridge employed a BEMS contractor for 6 months to review all strategies (£60k cost for £350k saving)

Aston were going to do decentralised budgets but not now as it is a small fish to fry + maintenance should decentralised as well

Cambridge will abandon the league table / incentive after years of efforts and arguing and small leverage

Digiware meters = 30 years warranty but not MID compliant

2016 MID regulation – possible fine of £1,000 per month for billing from non MID meter.

All agree there is an issue with lack of NIAGRA framework for metering

Propelair toilets = More expansive than first quoted + the company struggles

Water harvesting seem to be saving water at Coventry

Food waste = Coventry segregate food waste in staff office kitchens and catering.

**Topic suggestions for future meetings and webinars:**

Water / water conservation (after Northumbria university case study?)

“Finndensers” in laboratories

BEMS user group (share issues, solutions, business cases, strategies, influence).