

## Appendix F

### Summary of ShareFair HE energy management network events

#### Introduction

The higher education energy management network ShareFair was established in 1997. At present there are 130 members registered, representing 110 organisations out of the 140 HEIs in the UK.

The network is based on the principle of learning and building on what other energy managers have already achieved. This avoids duplication, with its associated cost and time lost, while facilitating the flow of useful information on technologies and management practices that have been successful and reasons why others may have failed.

The energy management network employs the following communication routes to achieve this:

- direct contact between members
- ongoing exchange of information between members, by fax and e-mail. A searchable index of e-mail correspondence is available at [www.jiscmail.ac.uk/lists/energy-management.html](http://www.jiscmail.ac.uk/lists/energy-management.html)
- three (ShareFair) workshops a year, each of which is adapted to address topics that are raised by attendees and that are of interest to members.

The following three tables list issues considered in Sharefair reports of events, under the headings Communication, Consumption and Cost respectively, between February 2000 and July 2002. Copies of workshop notes are available from [networks@bre.co.uk](mailto:networks@bre.co.uk). The 'Contacts' column contains the names of institutions requesting advice/offering help for each issue (in some cases the issues raised were discussed in small groups). Further contact details are provided in the relevant workshop notes.

#### Communication issues in ShareFair reports

<b>Issue raised</b>	<b>Workshop notes – event number and page reference</b>	<b>Contacts (for further details refer to relevant workshop notes)</b>
Awareness – motivating the student body	Event 9, p17	Discussion group
Effective energy policies	Event 15, p14	HEFCE
Effective energy policies and action plans	Event 9, p16	Discussion group
Energy awareness campaigns	Event 8, p16	York
Energy management training options	Event 12, p8	Anglia Polytechnic, REEO, Bristol
Energy management web-sites	Event 8, p8	Bath, Sheffield, Lincoln and Humberside
Energy managers – scale of appointment	Event 15, p17	Nottingham, Loughborough, University Wales Institute Cardiff, HEFCE
Energy policies and action plans	Event 9, p4	Bath
Energy training for energy managers	Event 15, p16	HEFCE, University Wales Institute Cardiff, West of England, Loughborough, Queen Mary London
Engaging senior management, staff and students in environmental change	Event 11, p3	Bradford, Hertfordshire, UMIST, London School of Economics, Nottingham, Leicester, Cambridge

<b>Issue raised</b>	<b>Workshop notes – event number and page reference</b>	<b>Contacts (for further details refer to relevant workshop notes)</b>
Environment week for staff and students	Event 14, p5	Bristol, Liverpool John Moores, Loughborough, Hertfordshire, Sheffield Hallam, BRECSU
Environmental awareness posters	Event 12, p7	University College London
Gaining SMT support and funding	Event 9, p8	Derby, Bath
Monthly e-mail awareness reminders to staff every 4/6 weeks	Event 8, p15	Sheffield
Networking – mailbase groups	Event 8, p15	Edinburgh
Regulation of energy efficiency	Event 15, p13	Environmental Agency
Showpiece energy conservation schemes	Event 9, p8	Sunderland, Lincoln and Humberside
Site specific advice schemes – BRECSU et al, energy audits	Event 9, p9	Bristol, Bath, Derby
Staff training and awareness	Event 15, p13	Environmental Agency, Bristol
Student projects	Event 9, p15	Sheffield
Student training and awareness	Event 15, p13	Environmental Agency
Student Union/residential awareness scheme	Event 9, p5	Bath, University Wales Institute Cardiff, Liverpool John Moores
Support material – publications and web sites	Event 9, p4	Derby, Lincoln and Humberside, Bristol
User groups	Event 9, p15	Nottingham
VfM from energy managers case studies	Event 14, p14	East London

#### Consumption issues in ShareFair reports

<b>Issue raised</b>	<b>Workshop notes – event number and page reference</b>	<b>Contacts (for further details refer to relevant workshop notes)</b>
Air entraining showers	Event 15, p22	Northampton, Queen Mary London
Air-conditioning – options	Event 13, p7	Northumbria, Manchester, Southampton
Automatic lighting controls	Event 14, p13	University College London, West of England
Central vs building boiler room	Event 13, p9	West of England, Sheffield Hallam, Northumbria, Edinburgh, Loughborough
CHP sizing software	Event 9, p3	Welsh School of Architecture, Bath
Christmas shut-downs	Event 8, p12	Bath, Manchester Metropolitan
Common carriage of water – Boreholes	Event 10, p12	Queen Mary London, Liverpool John Moores
Continuous treatment of water systems: chlorine or ionisation systems	Event 10, p6	Northampton, Liverpool John Moores
Control of ventilation – heating cooling	Event 11, p7	University College London, Cambridge,

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
systems – using presence detection/timing controls		Queen Mary London, Liverpool John Moores, Cardiff, Southampton, Birmingham, Warwick, Nottingham
Decentralisation of boilers	Event 13, p10	Salford, Manchester, Southampton, Leeds Metropolitan
Decentralisation of steam to LPHW	Event 12, p8	Cardiff, Warwick, St Martins College, Dundee
DHW generators	Event 8, p15	Edinburgh
Effective progress reports for senior management down	Event 10, p4	University College London, Northampton, London School of Economics
Energy consumption – Flat panel monitors (FPMs) vs traditional computer monitors	Event 12, p3	Anglia, Liverpool, Cardiff, University College London
Energy consumption of vending machines	Event 10, p12	University of Wales Institute Cardiff
Energy efficient fuels	Event 9, p13	Bath, Cardiff
Energy efficient lighting	Event 13, p5	Sheffield Hallam
Energy savings – compressors	Event 12, p10	Liverpool John Moores, Warwick
Energy savings – oversized motors/pumps	Event 12, p9	Liverpool John Moores, CHEEP, University of Wales Institute Cardiff, REEO
Energy savings for student computing	Event 8, p18	Discussion group
Energy software for student PCs	Event 8, p7	Sheffield Hallam, Warwick, Cambridge, Bath, Middlesex, Lincoln and Humberside, Sunderland
Engine/turbine based CHP and 'turn key' CHP units	Event 11, p10	Edinburgh, Liverpool John Moores, UMIST, Bristol
Fume cupboards	Event 12, p11	University College London, Cardiff
Grey water systems	Event 13, p16	Northumbria, Loughborough, UMIST, Edinburgh
Hydraulic pumps – fitting inverters	Event 12, p9	University College London
Insulation jackets	Event 15, p15	Bristol, Teesside, Loughborough, West of England
Integrating rainwater recovery and usage in campus buildings	Event 9, p14	Sunderland, Cardiff, UMIST, Loughborough, Liverpool John Moores, Derby
Legionella and energy costs	Event 15, p22	Northampton, Hertfordshire, Nottingham, York
Lighting controls	Event 8, p16	Hull
Magnets on boilers	Event 13, p10	York, West of England, Middlesex, Southampton
Motor controllers on freezers	Event 8, p11	Edinburgh, Bath, Middlesex

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
Motor management policy	Event 14, p13	Bristol
New build – residence and conference centre – energy requirements	Event 15, p14	University of Wales Institute Cardiff, West of England, Hertfordshire
New student village (900 units) – selection of plant, CHP etc	Event 11, p9	Queen Mary London, London, Manchester Metropolitan, Liverpool John Moores, Cardiff
Passive ventilation	Event 13, p6	York, De Montfort, Coventry, Manchester, Edinburgh, West of England, Leeds Metropolitan, Loughborough, BRECSU
PC screen switch-off	Event 13, p14	UWE, Leeds Metropolitan, UMIST, Southampton, Edinburgh
Photovoltaic air conditioning units	Event 14, p13	Loughborough, Leicester, East London
Photovoltaics	Event 14, p12	Hertfordshire, Northumbria, York, Bristol, Nottingham, Leicester, Southampton, Loughborough
Reducing energy consumption of computers	Event 14, p14	Bristol, University College London, Edinburgh
Reducing toilet cistern volumes	Event 8, p13	UMIST, Edinburgh
Reduction in water consumption	Event 9, p6	Liverpool John Moores
Reliability of automatic light controls	Event 13, p5	UMIST
Renewable energy	Event 11, p8	Nottingham, Cambridge, Edinburgh
Retrofit energy savings and PC's – Developments	Event 10, p8	University College London, Cambridge, Bath
Showerheads – water consumption	Event 13, p17	York, UMIST, Sheffield Hallam, Edinburgh
Split air-conditioning systems	Event 13, p7	Southampton, Edinburgh, Sheffield Hallam, West of England
Termodeck – mixed academic buildings	Event 14, p14	East London
Utility load profiles for campus buildings	Event 8, p5	Welsh School of Architecture
Variable speed drives	Event 13, p11	UMIST, West of England, Sheffield Hallam, Edinburgh
Vending machines	Event 9, p13	University of Wales Institute Cardiff, Cardiff, Sunderland
Water conservation	Event 12, p11	Lancaster
Water conservation in chemistry laboratories	Event 15, p23	York
Water free urinals	Event 9, p6	London School of Economics, Derby
Water savings campaign	Event 8, p14	Liverpool John Moores
Waterless urinals	Event 8, p10	Loughborough, UMIST, Sheffield Hallam, Bath, Edinburgh
Waterless urinals	Event 14, p10	Hertfordshire, Liverpool John Moores, Loughborough

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
Wind turbines as an efficient alternative energy source	Event 10, p10	Durham
Wind-powered street lights	Event 14, p12	Nottingham

#### Cost issues in ShareFair reports

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
Action energy grant scheme	Event 14, p7	Loughborough, Nottingham, Leicester, University College London Liverpool John Moores, Bristol, West of England
Benchmarking and energy audits	Event 15, p12	Hertfordshire, West of England, HEFCE, BRE
Benchmarking for water use	Event 10, p6	London School of Economics
Benchmarking university buildings	Event 15, p12	Bristol
Black boxes for boilers	Event 15, p8	Discussion group
Boiler controls/sequencers	Event 15, p15	West of England, University of Wales Institute Cardiff, Nottingham
Booklets – payback on energy reduction measures	Event 14, p6	Liverpool John Moores, West of England
Building management systems	Event 15, p21	York
Carbon Club/Carbon Trading	Event 14, p11	Bristol, University College London, Loughborough, Edinburgh, Leicester, Brighton
CCL/energy tax	Event 9, p4	London School of Economics
CHEEP – Procurement	Event 11, p4	Liverpool John Moores, Birmingham, Cambridge
CHP best practice	Event 8, p15	BRECSU
CHP development grants	Event 14, p8	Edinburgh
Climate change levy	Event 8, p9	Liverpool
Cost effective – Installing M&T software	Event 8, p18	Discussion group
De-centralisation of energy costing	Event 9, p12	Derby, Leeds, Birmingham, University of Wales Institute Cardiff, Queen Mary London, Southampton, Manchester
De-regulation of water	Event 9, p14	Bristol, Bath
Devolution of electricity	Event 11, p5	Manchester, Bristol
Devolution of energy budgets	Event 15, p17	Queen Mary London, Bristol, Warwick
EDI billing	Event 15, p20	Bristol

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
EMS database	Event 8, p15	Edinburgh
EMS software and cost of metering	Event 14, p19	West of England
Energy audit list	Event 12, p5	Liverpool John Moores, Hertfordshire, University College London, University of Wales Institute Cardiff, BRECSU
Energy charging	Event 13, p15	West of England
Energy grants – sources	Event 15, p18	West of England
Energy performance brief for tenders and consultants (covering air conditioning, ventilation and general energy management)	Event 12, p4	University College London, Liverpool John Moores, Sheffield, Anglia Polytechnic, Hertfordshire, Bristol
Energy procurement – regional and national	Event 9, p10	Liverpool John Moores
Energy tariffs	Event 9, p11	Liverpool John Moores, Bath
Enhanced capital allowances	Event 15, p19	York
Figures for replacement of laboratory stills paybacks	Event 14, p9	Edinburgh, Bath, Leicester
Free Trial of 'Data Plus' software	Event 10, p12	Leicester
Gas contracts and pricing	Event 9, p4	Bath
Gas meters – charging according to meter size	Event 11, p4	Southampton, Birmingham, Nottingham, Queen Mary London
Grants for photovoltaics	Event 15, p18	Loughborough, Hertfordshire
Green energy	Event 13, p8	Northumbria, Loughborough, Southampton, Manchester, Leeds Metropolitan
Green energy market	Event 8, p6	Sheffield Hallam, Cardiff, Liverpool John Moores, Loughborough, Sunderland
Half-hourly data	Event 14, p19	Liverpool John Moores
Infra-red aerial surveys	Event 9, p10	Southampton, Sheffield Hallam
Installation of meters	Event 9, p12	Derby, Bath, Bristol
M&T software	Event 8, p8	Central Lancashire, UMIST, Sheffield Hallam, Sunderland, Sheffield, Nottingham, Manchester Metropolitan, Edinburgh
M&T software	Event 13, p13	Manchester, Bristol, Edinburgh
M&T systems	Event 15, p20	Brunel, Hertfordshire, Edinburgh, West of England, Bristol, Nottingham
Maximising benefits from utility de-regulation	Event 9, p7	Hertfordshire
Meter reading using Psion	Event 9, p11	Sunderland, London School of Economics, Nottingham
Monitoring and targeting metering, and remote meter installation	Event 11, p5	Warwick, Southampton, Leicester, UMIST, London School of Economics, Manchester Metropolitan, Liverpool John Moores, Hertfordshire, Cardiff

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
Normalising energy targets /savings for devolved/non-devolved energy budgets	Event 8, p5	Bath, Birmingham, Nottingham, Southampton, Sheffield Hallam
NWUPC – discounts on purchasing Danfoss inverter motor drives	Event 13, p18	UMIST
Procurement of all equipment (The Buying Agency)	Event 8, p15	Edinburgh
Reclaiming energy within research costs	Event 8, p16	Sheffield
Reducing meter monitoring costs	Event 15, p22	West of England
Re-investment of energy savings	Event 12, p7	Energy Consortium (CHEEP), Regional Energy Efficiency Office (REEO)
Remote meter reading	Event 12, p12	Leeds Metropolitan
Remote metering systems	Event 15, p21	Bristol, West of England, York, University of Wales Institute Cardiff, Teesside, Warwick
Returns on sewer allowances	Event 12, p12	Cardiff
Savings by increasing boiler temp.	Event 14, p9	West of England, University College London, Leicester, Hertfordshire
Savings from de-centralisation of heating plant	Event 14, p8	University College London, East London, Hertfordshire, Warwick, De Montfort, Edinburgh, Bristol
Scheduling – BEMS	Event 13, p12	West of England, Sheffield Hallam, UMIST
Setting energy targets for new and refurbished buildings	Event 12, p6	Liverpool John Moores, University of Wales Institute Cardiff, University College London, Anglia Polytechnic, BRESCU, De Montfort, East Anglia, Lincolnshire and Humberside
Smart meters – water	Event 13, p16	Edinburgh
Sub-metering – STC M&T software	Event 13, p13	Edinburgh, UMIST, Leeds Metropolitan
Sub-metering systems, BEMS interface	Event 13, p12	Edinburgh, Leeds Metropolitan, Manchester, UMIST
Surface water drainage – rebates/savings	Event 8, p16	Nottingham
Sustainable construction advice – procurement guide	Event 14, p6	Edinburgh, Bristol
Swimming pool costs	Event 14, p10	Liverpool John Moores, Hertfordshire, BRECSU
Tender rounds/ Reverse auctions	Event 13, p15	Loughborough, Edinburgh
VAT on non-business research energy costs	Event 15, p19	Queen Mary London, Cambridge, Nottingham, Brunel, Hertfordshire, Edinburgh

Issue raised	Workshop notes – event number and page reference	Contacts (for further details refer to relevant workshop notes)
Water competition	Event 9, p19	Discussion group
Water management tender – questionnaire	Event 12, p12	CHEEP
What use metering?	Event 15, p11	Discussion group